### Grant Application Package

<table>
<thead>
<tr>
<th>Opportunity Title:</th>
<th>Humanities Collections and Reference Resources</th>
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<tr>
<td>Offering Agency:</td>
<td>National Endowment for the Humanities</td>
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<tr>
<td>CFDA Number:</td>
<td>45.149</td>
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<tr>
<td>CFDA Description:</td>
<td>Promotion of the Humanities Division of Preservation and Access</td>
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<td>Opportunity Number:</td>
<td>20160719-FW</td>
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<td>Competition ID:</td>
<td>PW2016</td>
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<td>Opportunity Open Date:</td>
<td>05/05/2016</td>
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<tr>
<td>Opportunity Close Date:</td>
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| Agency Contact:   | Humanities Collections and Reference Resources  
|                   | Division of Preservation and Access  
|                   | National Endowment for the Humanities  
|                   | 400 Seventh Street, SW  
|                   | Washington, DC 20506  
|                   | preservation@neh.gov                   |

This opportunity is only open to organizations, applicants who are submitting grant applications on behalf of a company, state, local or tribal government, academia, or other type of organization.

**Application Filing Name:** NEH Humanities Collections: Wing Papers Collection

### Select Forms to Complete

**Mandatory**

- Application for Federal Domestic Assistance-Short Organizational
- Supplementary Cover Sheet for NEH Grant Programs
- Project/Performance Site Location(s)
- Budget Narrative Attachment Form
- Attachments

**Optional**

### Instructions

**Show Instructions >>**

This electronic grants application is intended to be used to apply for the specific Federal funding opportunity referenced here.

If the Federal funding opportunity listed is not the opportunity for which you want to apply, close this application package by clicking on the “Cancel” button at the top of this screen. You will then need to locate the correct Federal funding opportunity, download its application and then apply.
1. NAME OF FEDERAL AGENCY:
National Endowment for the Humanities

2. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:
45.149

CFDA TITLE:
Promotion of the Humanities_Division of Preservation and Access

* 3. DATE RECEIVED: Completed Upon Submission to Grants.gov

* 4. FUNDING OPPORTUNITY NUMBER:
20160719-PW

* TITLE:
 Humanities Collections and Reference Resources

5. APPLICANT INFORMATION

* a. Legal Name:
University of Florida

b. Address:

Street1: Street2:
219 Grinter Hall

City: County/Parish:
Gainesville

State: Province:
FL: Florida

Country: USA: UNITED STATES

* Zip/Postal Code:
32611-5500

c. Web Address:
http://www.ufl.edu

d. Type of Applicant: Select Applicant Type Code(s):
H: Public/State Controlled Institution of Higher Edu

* Other (specify):

* e. Employer/Taxpayer Identification Number (EIN/TIN):
59-6002052

* f. Organizational DUNS:
0696638140000

* g. Congressional District of Applicant:
FL-003

6. PROJECT INFORMATION

* a. Project Title:
The Humanity Within Her Science: Digging into the Impact of Elizabeth Wing's Papers

* b. Project Description:
The University of Florida (UF) George A. Smathers Libraries (Libraries) in partnership with the Florida Museum of Natural History will provide accessibility and discoverability of the Elizabeth S. Wing Papers, the meticulously organized collection of documents, images, and recordings related to the development of the scientific fields of zooarchaeology and environmental archaeology in North America.

c. Proposed Project: * Start Date: 06/01/2017 * End Date: 05/31/2020
### 7. PROJECT DIRECTOR

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<th>Middle Name:</th>
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<tbody>
<tr>
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<td>Valrie</td>
<td></td>
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<tbody>
<tr>
<td>Chair, Marston Science Library</td>
<td><a href="mailto:vdavis@ufl.edu">vdavis@ufl.edu</a></td>
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### 8. PRIMARY CONTACT/GRANTS ADMINISTRATOR

- Same as Project Director (skip to item 9):

<table>
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<th>Prefix:</th>
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<tbody>
<tr>
<td>Mr.</td>
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<table>
<thead>
<tr>
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<tr>
<td>Associate Director</td>
<td><a href="mailto:ufproposals@ufl.edu">ufproposals@ufl.edu</a></td>
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<td>352-392-4400</td>
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<tr>
<td>219 Grinter Hall</td>
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9. * By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties (U.S. Code, Title 218, Section 1001)

** I Agree ✗

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

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<td>* First Name:</td>
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<tr>
<td>Mr.</td>
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<tr>
<td>Brian</td>
</tr>
<tr>
<td>Middle Name:</td>
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<td>**Last Name:</td>
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<tr>
<td>* Email:</td>
</tr>
<tr>
<td><a href="mailto:ufpcontribs@uf1.edu">ufpcontribs@uf1.edu</a></td>
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### 1. Project Director

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### 4. Application Information

Will this proposal be submitted to another NEH division, government agency, or private entity for funding?  

- [ ] Yes  
- [x] No

If yes, please explain where and when:

Type of Application

- [x] New  
- [ ] Supplement

If supplement, list current grant number(s):

- [ ]

Primary project discipline:  

- History: History of Science

Secondary project discipline (optional):  

- History: Women's History

Tertiary project discipline (optional):  

- Social Science: Archaeology
**Project/Performance Site Location(s)**

**Project/Performance Site Primary Location**

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<td><code>Street2:</code></td>
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**Project/Performance Site Location 1**

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<td><code>Project/ Performance Site Congressional District:</code></td>
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**Additional Location(s)**

- Add Attachment
- Delete Attachment
- View Attachment
**Budget Narrative File(s)**

* Mandatory Budget Narrative Filename:  [budgetnarrativefile_IDC_rates_as_of_7_1_20](#)

[Add Mandatory Budget Narrative] [Delete Mandatory Budget Narrative] [View Mandatory Budget Narrative]

To add more Budget Narrative attachments, please use the attachment buttons below.

[Add Optional Budget Narrative] [Delete Optional Budget Narrative] [View Optional Budget Narrative]

Attached at least one Optional Budget Narrative?:  [X]
**ATTACHMENTS FORM**

**Instructions:** On this form, you will attach the various files that make up your grant application. Please consult with the appropriate Agency Guidelines for more information about each needed file. Please remember that any files you attach must be in the document format and named as specified in the Guidelines.

**Important:** Please attach your files in the proper sequence. See the appropriate Agency Guidelines for details.

| 1) Please attach Attachment 1 | projectdescription.pdf | Add Attachment | Delete Attachment | View Attachment |
| 2) Please attach Attachment 2 | contents.pdf | Add Attachment | Delete Attachment | View Attachment |
| 3) Please attach Attachment 3 | narrative.pdf | Add Attachment | Delete Attachment | View Attachment |
| 4) Please attach Attachment 4 | granthistory.pdf | Add Attachment | Delete Attachment | View Attachment |
| 5) Please attach Attachment 5 | deliverables.pdf | Add Attachment | Delete Attachment | View Attachment |
| 6) Please attach Attachment 6 | participants.pdf | Add Attachment | Delete Attachment | View Attachment |
| 7) Please attach Attachment 7 | budget.pdf | Add Attachment | Delete Attachment | View Attachment |
| 8) Please attach Attachment 8 | appendices.pdf | Add Attachment | Delete Attachment | View Attachment |
| 9) Please attach Attachment 9 | | Add Attachment | Delete Attachment | View Attachment |
| 10) Please attach Attachment 10 | | Add Attachment | Delete Attachment | View Attachment |
| 11) Please attach Attachment 11 | | Add Attachment | Delete Attachment | View Attachment |
| 12) Please attach Attachment 12 | | Add Attachment | Delete Attachment | View Attachment |
| 13) Please attach Attachment 13 | | Add Attachment | Delete Attachment | View Attachment |
| 14) Please attach Attachment 14 | | Add Attachment | Delete Attachment | View Attachment |
| 15) Please attach Attachment 15 | | Add Attachment | Delete Attachment | View Attachment |
### Facilities & Administrative (Indirect) Cost Rates » Finance and Accounting » University of Florida

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<td>Use same rates and conditions as those cited for fiscal year ending June 30, 2019</td>
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(A) Agriculture Research and Education Centers and Florida Medical Entomology Lab within the Institute of Food and Agricultural Sciences.

**Application of Facility and Administrative (Indirect Cost) Rates to DOD**
The Humanity Within Her Science: Digging into the Impact of Elizabeth Wing’s Papers
University of Florida

Budget Narrative

The Libraries will digitize all project materials excluding the slides, audio tapes and films, which will be digitized by a vendor, and the 3D specimens which will be digitized by the FLMNH staff. Based on past digitization experience, the Libraries staff typically estimate 2,250 page images per linear foot in an archival collections of this time period. With an extent of 40 linear feet, the Wing Papers should be comprised of approximately 90,000 page images. There are an additional 860 pages of sketches and field notebooks bringing the total estimated page count is 90,860. The Libraries staff typically estimates 25 pages scanned per hour for archival collections. At this rate, the project requires 3,634 hours to complete the digitization (121 weeks or 30 months). The project team will create metadata for all objects in the Wing Papers: papers, photos, audio tapes, films, field notebooks, sketches and 3D specimens, totaling approximately 92,408 pages/items. Almost all of the materials in the collection lack item level descriptions. Personnel will need to create original metadata for individual objects. The metadata will include both general and discipline-specific subject headings and authorities from a variety of controlled vocabularies. Development of a new user-friendly website and search interface and scanning of the 3D specimens will be completed by the FLMNH through a sub-award (described below).

Personnel: Salary plus fringe – NEH Funding Request
UF requests funding for three temporary positions: Metadata Specialist (0.75 FTE, NEH funding, 3 years, $111,247) responsible for creating, editing, and managing descriptive and other metadata for all content prior to digitization and for quality control assessments of metadata post-imaging (See Appendix E for Job Description). Digital Technician (0.75 FTE, NEH funding, 2.5 years, $43,625): responsible for digitization of content by the UF Digital Production Services unit, maintaining digitization workflows, creating and editing structural metadata, ensuring text processing, and quality control assessments of all digital files created during the project. (See Appendix F for Job Description). Zooarchaeology Content Expert (0.5 FTE, NEH funding, 2.5 years, $58,166): responsible for creating discipline-specific descriptive metadata, including subject headings and authorities; participates in creating narratives; and identifies objects which can be incorporated to support the thematic website narratives (See Appendix G for Job Description).

Personnel: Salary plus fringe – Cost Share
Valrie Minson, Project Director (.15 FTE cost share, three years, $52,254) will oversee the overall project, support communication among the FLMNH, Advisory Board, and Project Team members, and provide project leadership, coordination, outreach, and promotion. Kitty Emery, Co-Project Director (.10 FTE cost share, three years, $35,167) will supervise the Zooarchaeology Content Expert, interpret and provide guidance on discipline-specific metadata, facilitate communication between Wing and project members; provide advice in the design of the digital portal; author narratives and provide guidance on authorship of the narratives. Chelsea Dinsmore, Co-Project Director (.10 FTE cost share, three years, $31,319) will coordinate the technical management of digitization processing, and will oversee the dissemination of the digital collection through the SobekCM Open Source Repository Software and UFDC. Allison O’Dell, Co-Project Director (.10 FTE cost share, three years, $21,981) will supervise the Metadata Specialist, establish metadata guidelines and procedures, oversee metadata production and related processes, train personnel, transform project metadata to Audubon Core and other formats, coordinate data deposit and harvesting across platforms, and ensure that descriptive metadata is robust and standards-compliant. Laurie N. Taylor (.08 FTE cost share, three years, $23,141) will collaborate with project directors in creating communities of practice and new scholastic partnerships, including collaboration with the Digital Humanities Graduate Certificate Board for implementation in the Digital Humanities graduate studio class, facilitating digital and public scholarship
activities, including Digital Humanities communities to disseminate project, gather feedback from scholars, and liaise with the full project team and scholars for future expansions. Betty A. Dunckel, (.05 FTE cost share, three years, $22,319) will facilitate the development of age-appropriate narratives and resources for the Discovery Zone exhibit and youth in grades 4-8, and for FLMNH Scout badge programs, the Ask a Scientist public program, Discovery Carts, school outreach, and the Science Café programs for adult audiences. John Nemmers (.05 FTE cost share, three years, $14,703) will oversee physical work spaces for project staff in Smathers Library dedicated to Special Collections, review all materials prior to digitization, provide training on the use and handling of archival materials, participate in the transformation of EAD finding aid metadata to digital object metadata, revise the EAD finding aid for the Wing Papers to link to the digital content, and review website functionality. Haven Hawley (.02 FTE cost share, three years, $6,818) will assist in development and implementation of the Science and Human Café outreach programs, and assist in development of humanities narratives for the website. Laura Perry (.03 FTE cost share, three years, $6,029) will train and supervise the Digital Technician; assign and maintain digitization workflows for images, bibliographic, and textual processing; and ensure that digital content is ingested into the UFDC and archived accordingly. Jane Pen (.05 FTE cost share, three years, $8,535) will supervise the quality control assessment of images, creation of preliminary XML used to create metadata and text processing; support training of the Project Quality Control Coordinator; and oversee the quality control workflow. Greg Allen (.02 FTE cost share, three years, $7,864) will advise on metadata best practices in the life sciences, and provide additional support for training and coordinating metadata personnel. Fletcher Durant (.02 FTE cost share, three years, $4,107) will review all materials to identify preservation issues; oversee the physical care and handling of the collection objects prior to, during and following digitization; and apply preservation treatments as needed (e.g., surface cleaning, humidification and flattening, separation of attached or adhered items to facilitate access, and mending). Jane Pen (.01 FTE cost share, three years, $1,833) will ensure all digitized materials are loaded and archived to the redundant UF storage systems for access and long-term digital preservation and that optical character recognition (OCR) work is completed for all project materials entering the UFDC. Jimmy Barnett (.01 FTE cost share, three years, $1,497) will manage the workflow of materials transferred between the Smathers Library dedicated to Special Collections, and preservation and digital units in the prepare materials physically for digitization, identify any special handling needs during the digital capture, and prepare any final housings for materials following capture. Sarah Fazenbaker (.01 FTE cost share, one year, $890) will supervise the team creating the design and functionality of the search interface and narrative web pages, including user stories, wireframes, visual design, information architecture, search controls, record display and browser/device testing. Tara Cataldo (.01 FTE cost share, one year, $949) will perform usability testing on website and metadata, providing feedback to metadata and web design teams. Richard Freeman (.01 FTE cost share, three years, $2,251) will assist in coordination of Science and Human Café outreach programs, and assist with humanities narratives for the website. Terry Harpold (.01 FTE cost share, three years, $3,413) will serve as an advisor for humanities content, assist with developing thematic narratives, and assist with Science and Human Cafes. Interns (four internships @ $7,500 each, two years, $30,000) Two interns will work with FLMNH to develop activities for the FLMNH’s Discovery Zone exhibit, and create narratives and resources targeting upper elementary and middle school youth for the project website and for public programming provided by the museum. Two interns will create, enhance and refine metadata in support of the Wing Papers project. (see Appendix H Job Descriptions).

Services – NEH Funding Request
UF will contract with Creekside Digital to digitize the slides, films and audio tapes. UF has used Creekside Digital’s vended services in the past, and it is a company specializing in the digitization of cultural
heritage materials for libraries, archives, museums, and historical societies. Creekside Digital will digitize 1,500 slides at a cost of $5,332, 10 8MM films at a cost of $350 and 13 audio tapes at a cost of $325.

**Sub-award Florida Museum of Natural History (FLMNH) – NEH Funding Request**
FLMNH will complete 3D scanning of 25 specimens from Wing’s research. One specimen can be scanned in one hour at an hourly cost of $40, so the scanning will cost $1,000. Post-scanning processing brings the total to $3,250. The FLMNH’s Museum Technology unit will develop the project website at a cost of $11,800. This total includes 20 hours of planning and meetings, 80 hours of visual design, creating wireframes, graphics, etc.; 160 hours for creating narrative pages; 320 hours for developing the application and search interface in AngularJS to retrieve items from SobekCM and display in a results page on the site; and 10 hours for testing on mobile and desktop screens. The total 590 hours will be completed by unit at a cost of $20 per hour.

**Indirect Costs – NEH Funding Request**
UF’s indirect cost rate for this proposed project is 32.6% applied to the total NEH request of $234,095, totals $76,315.

**Indirect Costs – Cost Share**
UF’s indirect cost rate for the proposed project is 32.6% applied to the total cost share contribution of $275,821, totals $89,918.
Project Description
The University of Florida (UF) George A. Smathers Libraries (Libraries) in partnership with the Florida Museum of Natural History (FLMNH) request $310,410 (with $364,744 in contributed cost share) to provide accessibility and discoverability of the Elizabeth S. Wing Papers, the collection of documents (40 linear feet), field notes (780 pages), images (1,500), illustrations (81), films (10) and audio recordings (13) related to the development of zooarchaeology and environmental archaeology in North America. Wing is the recognized “mother” of these fields as the first female zooarchaeologist and one of the first to shift these disciplines from simple biological identifications to the humanities focused anthropological interpretations. Wing created the first zooarchaeology (and later environmental archaeology) collection and research facility in North America with materials from 500 archaeological sites. The Humanity Within Her Science project will curate and digitize the Wing Papers making this the first environmental archaeology digital collection of professional materials, digitized in its entirety. This project aims to build research infrastructure for scholarship in a variety of humanities disciplines and provides insight into a number of central themes, just a few include: archaeology, anthropology, climate studies, women and cultural studies, and environmental history.

This three-year project will result in three major products: 1) a digital collection consisting of professional correspondence, field notes, interviews, films, and images; 2) enriched metadata in support of ongoing scholarship in the digital humanities with a focus on women in research, the history of science, and the human-environment relationship; and 3) exemplar thematic narratives highlighting the potential for humanities research. Each narrative will integrate research notes, letters, interviews, and images including 3D scanned specimens and will reveal for the public Wing’s process of discovery within the framework of her research. Primary school-level narratives with programmatic “She’s A Scientist” outreach activities for the FLMNH’s new Discovery Zone will be discoverable and accessible through a new user-friendly website.

An Advisory Board of UF and external faculty with expertise in a variety of disciplines joined together during the project development phase. Board members have committed to assisting the Project Team in such activities as writing the thematic narratives describing what Wing’s Papers tell us about the era of human impact, the role of women in research, and the history of science; assisting in organizing public outreach cafés; and, in disseminating project results. As leading experts in English, history, environmental studies, biodiversity, Latin American studies, and environmental archaeology, the Advisory Board will effectively and authoritatively promote the project to a broad audience. Their efforts, along with publicity strategies undertaken by UF and external project supporters, will ensure that the project deliverables receive the widest possible exposure. The Wing Papers will be promoted broadly to local, national, and international scholars, teachers, and the general public.

To increase discovery of and access to resources in the Wing Papers, UF will contribute digital objects and metadata to digital repositories and collections and other open access systems via OAI/PHP harvest or APIs. Creation of a Wikipedia page and modification of the Environmental Archaeology and Women in Science Wikipedia pages will highlight Wing’s Papers. The Libraries communications office will provide promotional and marketing services to implement many of the publicity strategies.

Dissemination of four to six 4-8th grade activities will be accomplished through the FLMNH Discovery Zone, the FLMNH “She’s a Scientist” outreach program to Girl Scouts (Juniors and Cadettes, grades 4-8), and through promotion on the national EDSITEment website. Promotional efforts will target the project’s contextual resources including research possibilities for the humanities and utilization of 4-8th grade activities in the classroom. The Wing Papers will be presented in several science and human cafés, popular outreach programs presented by FLMNH and hosted at local community restaurants, with themes linked to the thematic narratives created as exemplars for this project. Nationally, the project will be presented at appropriate conferences and meetings.
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The University of Florida (UF) George A. Smathers Libraries (Libraries) in partnership with the Florida Museum of Natural History (FLMNH) request $310,410 (with $364,744 in contributed cost share) to provide accessibility and discoverability of the Elizabeth S. Wing Papers, the meticulously organized collection of documents, images, illustrations, and recordings related to the development of the scientific fields of zooarchaeology and environmental archaeology in North America.

This three-year project, *The Humanity Within Her Science: Digging into the Impact of Elizabeth Wing's Papers*, will result in three major products: 1) a digital collection consisting of professional correspondence, field notes, interviews, film, and images; 2) enriched metadata in support of ongoing scholarship in the digital humanities with a focus on women in research, the history of science, and the human-environment relationship; and 3) exemplar thematic narratives within a new website highlighting the potential for humanities research including:

- three examples illuminating Wing’s research on the zooarchaeological evidence of ancient overexploitation (e.g., fisheries’ collapse), culture contact (e.g., Columbus and Haiti), and domestication (e.g. Andean animals);
- three scenarios of history of science research emphasizing Wing’s role as a woman and mentor of other women in science and the social sciences beginning in the 1960s; and
- six situations revealing the broader impact of Wing’s research on currently vital humanities research topics such as environmental humanities, visual anthropology, and climate history.

Each narrative will integrate research notes, letters, interviews, and images including 3D scanned specimens, revealing for the public, Wing’s process of discovery within the framework of her research. Primary school-level narratives with programmatic “She's A Scientist” outreach activities for the FLMNH’s new Discovery Zone will be accessible through a new user-friendly website.

The *Humanity Within Her Science* project will curate and digitize the Wing Papers, making this the first environmental archaeology digital collection of professional materials, broadly accessible online in its entirety. The Wing Papers digital collection will include:

- correspondence, research notes, planning documents, and unpublished reports (40 linear feet);
- audio interviews with Wing’s colleagues at archaeological sites, documenting local fishing, agriculture, and environmental impacts throughout her career, field and research (13 audio tapes);
- film footage of Wing in the field, interviews with people living near archaeological sites (10 8MM);
- print and slide photographs of environments, people, and archaeological sites, 1960-1990 (1,500);
- field notebooks documenting life and research at archaeological sites (780 pages); and,
- sketches of fishes (81 hand-colored drawings) and accompanying color slides.

In addition, 25 specimens from the Environmental Archaeology Program (EAP) collection at the FLMNH will be 3D scanned to provide visual representation in support of thematic narratives and youth educational activities featured on the new website.

**Significance:**

Zooarchaeology is the study of animal remains, from archaeological sites, and their interpretation to understand the deep history of relationships between people and the animals of their world. It is one of several archaeological research fields that came together to create the holistic field of Environmental Archaeology, a science that provides a deeper understanding of the early Anthropocene – or era of human impact – through understanding of the ancient human-environment relationship. Appreciating that scientific research requires the maintenance of thorough documentation for future generations of researchers to utilize for the common good, Wing developed a robust collection documenting the FLMNH Zooarchaeology (later renamed Environmental Archaeology) biological collections and her biological, methodological, and anthropological research on these collections.

As with many such collections, due to a lack of any online presence the Wing Papers have remained hidden and unknown beyond the relatively small group of researchers associated with UF’s
EAP. This collection documents Wing’s role as a pioneer in the development of an emerging anthropological specialty (understanding the deep history of peoples’ and their environments) in the 1960s-1990s. It reveals the remarkable accomplishments of a woman working in a male-dominated field, and explores the cultural and human context of the animal and botanical remains and thus linked biological and humanities scholarship. This collection provides humanities context to the transition of a biological science (zoology) to an anthropological one (environmental archaeology). At the same time, it provides a context to the history and human process behind the research through correspondence, notes, and thinking documents created by a woman at the cusp of a newly interdisciplinary field. Opening Wing’s collection to a variety of age groups and scholars will support multidisciplinary research and public engagement with science and the humanities.

Wing is the recognized “mother” of these fields in North America, as the first female zooarchaeologist (Lyman, 2016, White et al., 1999, Emery, 2003b) and one of the first to shift these disciplines from simple biological identifications to the humanities focused anthropological interpretations. Wing created the first zooarchaeology (and later environmental archaeology) collection and research facility in North America. In recognition of her seminal work, Wing was inducted as a member of the National Academy of Sciences in 2006. Her career spanned 40 years and her research and papers range widely across time, space, and theoretical question. Geographically, she focused on the circum-Caribbean encompassing the ancient world between the Southeastern United States and northern South America and Caribbean. Chronologically, her research extended from 10,000 years ago to the present, the period of occupation of the New World. Anthropologically, her zooarchaeological research explored questions of human subsistence and ceremony, human impact on the ancient world through harvest and manipulation, and the impact of environmental conditions such as resource variability and changing climate on human choices. In a dramatic shift from the male-dominated biological sciences, Wing’s students were primarily women, and her influence on women in science is felt in the continued dominance of the field by women (Pilaar Birch, 2015, Gifford-Gonzalez, 1994).

While the public may not have heard the terms “zooarchaeology” or “environmental archaeology,” the work of these disciplines is evident in our common understanding of early animal domestication, of the effects of natural resource over-harvest, of cross cultural human interactions, of human survival and adaptation, and of the history of human adaptation to climate change. The Wing Papers broaden our understanding of human development and impact within disciplines such as archaeology, history, environmental humanities, cultural anthropology, and conservation biology. They contribute to the emerging story of the Anthropocene, provide insight into the development of a new science; and reveal the role of women in building new science. The collection’s value lies in its extensive documentation of the historical trajectory of human-environment research throughout occupation of the New World, and of the storied career of a brilliant and determined, yet humble and quiet woman.

Wing curated animal, plant and soil specimens excavated from 500 archaeological sites, developed a modern specimen collection for comparative analysis of archaeological materials, and created and verified a corpus of best-practice methods for the science of environmental archaeology. As part of these activities, she also curated an extensive collection of archival records that includes primary source archaeological context information, interviews and images, and interpretative analyses that explore the relationship between the environment and human behavior in the past and present. She established some of the most important specimen and data collection protocols of field work and expanded the understanding of past human impacts on the natural world as well as the natural world’s impact on humans. With the creation of an open access digitized collection of distinctive materials, researchers, students, teachers, and cultural heritage institutions will have improved ability to study human history and the relationship between humans and their environment as documented in Wing’s Papers.
The first female doctoral graduate of the UF Zoology Department, Wing completed her studies in 1962 as an organismal biologist (Wing, 1957). She is particularly recognized for her role in the development of best-practice in zooarchaeological curation and research (Wing and Quitmyer, 1985), and the expansion of research questions from simple identification to contextualized interpretations of human activities from the perspective of their relationships with animals and the environment. At that time archaeologists were beginning to be interested in the animal and plant remains recovered from archaeological sites and often shipped faunal (animal) remains to Wing and other zoologists for a list of species, lists usually relegated to appendices for lack of any interpretation (Lee Lyman, 2015). Wing realized the importance of integration of anthropological questions to this effort and insisted on sharing her interpretation of the specimens within the anthropological context of the human-related research (White et al., 1999). She later expanded her emphasis on animal research to include the collection, analysis, and interpretation of soils and plants in order to understand, holistically, the ancient ecological system. She carefully curated the archaeological animal, plant, and soil remains from some 500 archeological sites in her collection for ongoing research and often returned to these sites for secondary studies, a practice that continues today. Wing also understood the importance of methodological standards to the science and conducted experimental and analytical studies to evaluate best-practice in the recovery and interpretation of the remains (Emery, 2003a). One of Wing’s major contributions was to create the most extensive comparative specimen collection of animal species from the circum-Caribbean region, particularly fishes (Poss and Collette, 1995).

Wing was instrumental in developing a new field in the male-dominated sciences of the 1960s. Wing’s early career as a graduate student, prior to children, highlights the difficulties of a woman seeking professional credibility and employment in her field. Her later papers track the challenges of a young female professional conducting research with two children in-tow, such as collecting specimens and samples in Cheez Whiz and baby food jars. With the exception of one other woman, a zoologist, Barbara Lawrence, who was Wing’s mentor in college and throughout her career, the other individuals frequently cited as the founders of these disciplines in North America are all men: John Guilday, Theodore E. White, Paul Parmalee, Volney Jones, and Stanley Olsen, among others (Lee Lyman, 2015). Wing also established and supported a second-generation network of primarily women, and stands alongside female European colleagues such as Juliette Clutton-Brock as a role-model whose strength and enthusiasm motivated both second, and now third and fourth generation female researchers. Wing’s focus on outreach to women students and scholars is one likely reason that the field, unlike so many others, still is dominated by women. Her story is important not only for the history of science but also for understanding the unique experience of a woman of science.

This project aims to build research infrastructure for scholarship in a variety of humanities disciplines and provide insight into a number of central themes, just a few of which are listed below:

- **Archaeology:** answering how and why humans used natural resources through time including the role of animals and plants in subsistence (food, medicine, clothing, structures, etc.), economics (trade and craft), politics (emblem of status and ethnicity), and ritual (arbiter and agent in negotiations with the supernatural).
- **Cultural Anthropology or American/Latin American Studies:** exploring interviews of local and indigenous peoples living near circum-Caribbean archaeological sites; learning about indigenous farming, fishing, crafting, medicinal, or other practices; or answering how those practices are reflected in the specimens collected at the archaeology sites.
- **Climate Studies:** revealing the interactivity of animals, humans, soils, and plants – important for facing the global challenge of climate change. Archaeological data provide long-term perspectives that inform the deep history of human activities in the context of past climate and ecology, and assist in predicting impacts of modern and future climate change.
• Women and Cultural Studies: exploring the challenges of a woman in the 1960s in a male-dominated science and discovering how gender played a role in her interactions and innovations.
• Environmental History: discovering the American or Caribbean history of animal domestication, food/cuisine studies, or environmental modification, when looking back in time to early human activity on the American continents, including the first contact between people and a pristine landscape – or later between two separate cultures--the Native Americans and European colonials.
• Diaspora Studies: exploring questions of human migration and cultural contact for understanding the possible drivers of social reorganization worldwide, caused by environmental change.
• Politics of Science: understanding the politics of developing a new science or viewing science as a culture which is subject to forces that impact modes of producing new knowledge.
• Interdisciplinarity Studies (2016a, 2016b): learning about a new field of study related to how scholars from the sciences, social sciences, and humanities come together to understand the relationship between people and their environment.
• Historical Fiction: inspiring discussions, images, and interviews using evidence-based creative writing of historical or climate fiction, thus accurately representing the ancient environments and peoples.
• Classical Studies: examining archaeological and historical sites, specimens, and cultural artifacts that help reconstruct human history from the material remains left behind.

For other research purposes, scholars will be enabled to answer questions through access to these collections: What does the development of a new science look like – what collaborations, leaps of thought, and discourse were required? What questions did Wing try to answer and why couldn’t she answer those questions within the framework of existing disciplines? Was there a fundamental problem in the extant disciplines that she was trying to overcome (e.g., a problem of methodology)? Was her obsession to collect everything at her archaeological sites a deliberate means for innovating a new discipline or was this an accidental result of her natural way of doing science? Did she create new professional information networks or was she able to use networks that already existed? What tensions, if any, developed between the disciplines she crossed? What was the reaction of the humanities and scientific communities? Further, a review of some of the research publications produced using Wing’s specimen collections provides a glimpse into the possibility of future advances in knowledge related to human impacts on the environment and human adaptation to changing environments (see Appendix B for list of peer reviewed publications and research topics).

Over the past five years, an average of 28 scholars annually have visited the EAP (Environmental Archaeology Program) collections at UF (approximately half of which were from outside UF), and an average of 16 additional public visitors were toured through the collections. Most of these in-person visitors accessed Wing’s Papers either for additional information on comparative specimen records or information on archaeological context and history associated with sites and collections of research interest. The EAP staff has not kept records on the number of digital requests for information and access to archival records but these easily double the annual rate of on-site visitors. These usage statistics are high considering that the collection is not described online in a standard finding aid or catalog record. In other words, these researchers most likely discovered the Wing Papers by citations in professional literature or by word of mouth based on the reputation of the program. This level of access exists despite the general lack of knowledge of the Wing's Papers or their inaccessibility (typically it takes several days or weeks to provide the information requested by visitors). The usage statistics are expected to rise after the collection is described and made available online since the current use is limited by lack of information and the time required for physical access.

The Humanity Within Her Science project has long-term benefits for research, education, and public programming in the humanities. Most importantly, the Wing Papers will be discoverable and accessible to researchers online, thereby increasing opportunities for scholarship by a wider, more
diverse community of users from both humanities and science disciplines. Further, the digitized collection will be available to higher education institutions, Girl Scouts and Cadettes attending the “She’s a Scientist” program and 4-8th grade classrooms, for educational purposes. The creation of thematic narratives will provide research models for scholars in the humanities to continue exploring the collection, and the Science Café and Human Café will foster conversations about science and the humanities. Florida Museum’s Science Café events take place in area restaurants and provide programming designed to foster general public discussion. The long-term benefits also include the creation of kid-centric narratives exploring the history of a new science and the contributions of women in science, as well as educational activities targeting visitors of the FLMNH Discovery Zone, the Girl Scouts and Cadettes attending the “She’s a Scientist” program, and educators exploring EDSITEment or the 3D Learning Objects Repository. These activities will provide hands-on experiences for children with opportunities to connect and explore the origins of new science.

**History, scope, and duration**

*The Humanity Within Her Science*, a three year project beginning June 2016, will leverage a growing partnership between the Libraries and FLMNH. In 2015, a request from FLMNH staff initiated the transfer of several legacy monograph and journal collections for three divisions: Herpetology, Mammalogy, and Ornithology to make them more broadly available. The Libraries inventoried and cataloged the materials and assigned a virtual bookplate to each title, creating a highly visible and searchable research collection. This new partnership was further expanded in 2016 when the Libraries and FLMNH embarked on a project to digitize the Ornithology Division Charles E. Doe Field Notebooks, Egg Catalog Cards, and Photograph Collection resulting in the Charles E. Doe Collection. In preparation for this digitization project, the Libraries created a Metadata Guidelines Document to develop appropriate subject keywords, genre information, taxonomic data, temporal and spatial coverage, and biographical information – paving the way for the digitization of the first set of FLMNH field notebooks. These projects provided foundations for the Wing Papers project and established a familiarity with museum archival materials and FLMNH personnel. During the design phase of this project, advisors in various humanities and scientific fields were contacted for their insight and project development experience. As a result, the Libraries and FLMNH founded an Advisory Board to provide ongoing guidance and expertise in executing *The Humanity Within Her Science* project.

Since her hire in 2001, Kitty Emery, PhD, has been actively organizing and researching the Wing Papers, collating records associated with different aspects of the collection and ensuring that the archives were effectively curated. In June 2016 through a related project, ZooarchNet, Emery and co-PIs Robert Guralnick and Eric and Sarah Kansa (Advisory Board members for this NEH proposal) the team has been digitizing specimen-related biological data from the archaeological collections of the EAP for mobilization into the global biodiversity distributed data networks via VertNet (a biodiversity data discovery, capture, and publishing project), iDigBio (the UF directed, NSF funded, National biodiversity digitizing initiative), and the Global Biodiversity Information Facility (an international open data infrastructure that provides public access to data about all types of life on Earth). This work has been funded by the FLMNH, UF Research Foundation, and the UF Informatics and Biodiversity Initiatives. The biological specimen data from these projects will be linked to the archaeological digital data publishing project Open Context directed by the Kansa’s. This biological data will be provided with unique URIs based on site catalog numbers (“accession numbers”) that will be included in the proposed Wing Papers metadata to ensure cross-searchability between the biological specimen data (ZooarchNet) and the proposed collection documents and other products that trace the history of creation and use of that specimen data in archaeological research.

Since 1997 the Libraries staff have pursued complex and large digital projects as evidenced by the 11.6 million pages in the University of Florida Digital Collections (UFDC), the large majority of which
are humanities content. Unique, non-robotic views from July 1, 2015 through June 30, 2016 total 84,707,397. The Libraries maintain a full complement of staff needed to execute the project, except for the specific budgetary requests for project personnel needed for the Wing Papers project. Although the project seems ambitious, it is certainly not for the Libraries as evidenced by its capacity for successfully completing complex, multi-institutional collaborative projects.

Pending funding for the project, the FLMNH will transfer stewardship of the Wing Papers to the Special & Area Studies Collections (SASC) Department in the Libraries. In preparation for this transfer, the SASC Head of Collection Services and SASC Processing Archivist reviewed the Wing Papers at the FLMNH and created a LibGuide describing the collection. Based on this review, a processing plan was created which will be implemented in late 2016. The plan indicates a five-week processing period with completion in January 2017. An Encoded Archival Description (EAD) finding aid for the collection will be published on the SASC website and a MARC catalog record will be published in the statewide online catalog prior to the NEH project start date. The processing plan and an explanation of long-term preservation and access for the collection are described in Appendix C.

The project team will create enriched descriptive metadata that will increase discoverability of the collection, emphasizing the archaeological sites, taxa, researchers and institutions, periods and chronology, and geospatial locations. This enhanced metadata will build access around the project’s thematic and experiential narratives. By creating new access points, this digital collection will support traditional scholarly research and allow for digital humanities pursuits by providing computational methods around the metadata itself. For example, a researcher could study the co-occurrence of correspondents in the project metadata to illuminate the social networks of twentieth-century women in science, or analyze taxonomic, chronological, and geospatial metadata to investigate the domestication of guinea pigs. Repurposing of metadata to support humanities research will be enabled through a variety of metadata formats and access options described below.

Exemplar thematic narratives highlighting the potential for humanities research including:

1. Three situations illuminating Wing’s research on the zooarchaeological evidence of:
   a. ancient overexploitation (e.g., fisheries' collapse),
   b. culture contact (e.g., Columbus on Haiti), and
   c. domestication (e.g. Andean animals).
2. Three examples of history of science research including:
   a. history of science as revealed in the Wing Papers
   b. women in research, emphasizing Wing’s role as a woman and mentor of other women, and
   c. development of environmental archaeology and zooarchaeology sciences.
3. Scenarios revealing the broader impact of Wing’s research on currently vital humanities research topics such as:
   a. humans and the Anthropocene,
   b. cultural anthropology and ethnography of Latin America of the 1960s-80s
   c. Latin American Studies – impact of environmental archaeology,
   d. environmental humanities,
   e. visual anthropology, and
   f. library and museum archives importance to humanities research.

These narratives will be presented on the website, but also will form the foundation for youth educational outreach activities, human and science cafes, conference papers, and publications, and will be the first of many narratives that develop from the Wing Papers.

Methodology and standards

*Humanity Within Her Science* consists of three primary components: 1) the digitization of almost 92,000 pages and items in the Wing Papers, including enhanced metadata, 2) creation of a website and
outreach program for discoverability, accessibility, education and promotion, and 3) development of exemplar narratives using archive components to illustrate the importance of the archives for diverse research and education opportunities.

Project directors will hire and train a Metadata Specialist and Zooarchaeology Content Expert. The Metadata Specialist will create metadata prior to imaging and ensure quality control of metadata after imaging. The Zooarchaeology Content Expert will be responsible for thematic metadata creation and narrative oversight; this position’s discipline-specific expertise will be vital in identifying and assigning descriptive metadata specific to environmental archaeology, environmental humanities, etc. and in interpreting the archives for appropriate narratives. These project staff will report to Project Director, Minson (Project Director), and Co-Directors O’Dell (Metadata Librarian) and Emery (FLMNH Curator) and work in the Smathers Library Building, where the collection will be housed.

The digital objects will be made available online through the UF Digital Collections (UFDC), which uses the open source SobekCM digital content management system. UFDC enables searching, viewing, and manipulation of digital materials online, and utilizes SobekCM’s strength in searching and indexing as powered by the industry and enterprise standard Solr/Lucene. The UFDC display includes the ability to browse, conduct advanced searches, and to view materials in zoom, page view, and flip-book formats. See UFDC/SobekCM Documentation and Technologies for more information.

Metadata: The metadata will be transformed from the collection finding aid and extended by the Metadata Specialist and Zooarchaeology Content Expert. The Metadata Librarian will document user needs, create metadata entry template(s) for the collection, and develop a metadata guidelines document that will outline metadata requirements for a variety of research purposes. Temporary project staff will be trained in all aspects of resource description, with training focused on content standards, subject/genre analysis and indexing, and the relationship between metadata and discovery. Team members will have the option of working with a web-based form or a spreadsheet for performing data entry, depending on the task. Through a combination of training, guidance, data integrity constraints, and quality control measures, the project team will ensure that project metadata is robust, interoperable, and repurposable in many contexts.

Descriptive metadata will conform to Resource Description and Access (RDA), Describing Archives: A Content Standard (DACS), and Cataloging Cultural Objects (CCO) content standards. It will include (and thus enable access by) material types, creators and correspondents, place and date of provenance, subjects (including species), research applications, and more details as appropriate. Persons, places, subjects, and genres will be indexed using controlled vocabularies, in particular focusing on aligning vocabularies with the narrative themes. UFDC collections are primarily indexed using the FAST vocabulary, which extends and is compatible with the Library of Congress Subject Headings and Name Authority File, but is designed to enable faceted browsing and guided search. As needed, materials may be additionally indexed using the Art and Architecture Thesaurus, the RBMS Controlled Vocabularies for Use in Rare Book and Special Collections Cataloging, the Virtual International Authority File, or others as appropriate. Use of these widely adopted controlled vocabularies will create data that is interoperable across collections, systems, and platforms, and enables metadata repurposing and applications in Linked Data contexts. In particular, the project will contribute metadata to ZooarchNet, a hub for accessing zooarchaeological specimen data being developed separately by Emery and the FLMNH, linked to VertNet, iDigBio, GBIF, and Open Context using both distributed data and Linked Open Data. Additionally, UF serves as a content hub for the Digital Public Library of America (DPLA), which provides wide, international access to digital content.

The Libraries are a Program for Cooperative Cataloging (PCC) participant, which provides the capacity to create new name and subject authority headings for the Library of Congress authorities and vocabularies for persons, organizations, and concepts particular to the project and the scientific disciplines. This authority work will establish new Linked Data resources and ultimately lead to search
engine optimization, data integration and repurposing, and cross-collection discovery of the Wing Papers, her collaborators, and her research.

Metadata will be encoded using the Metadata Encoding and Transmission (METS) standard, which links to the digital objects, and includes technical and structural data about each image. Metadata will be available for harvesting in METS, MARC Bibliographic, Dublin Core, and JSON formats through the UFDC OAI feed and API. Additionally, O’Dell will transform metadata into the Audubon Core format for deposit with UF’s Integrated Publishing Toolkit (IPT) server as a complement to the Darwin Core Archive used for biodiversity data dissemination by ZooarchNet, GBIF and the like. Although the majority of the descriptive metadata will be created prior to imaging, project staff will be able to revise or create metadata after the objects are available online using SobekCM which enables metadata editing online via the UFDC interface.

**Imaging:** Imaging will be completed by the UF Digital Production Services unit (DPS) in accordance with established professional standards. DPS has almost 20 years of experience in the management of imaging processes, implementation of metadata, and quality control processes for numerous, diverse formats. The staff’s experience in executing digital collection projects includes multiple projects funded by NEH, IMLS, NHPRC and other agencies. Projects include the Florida Digital Newspaper Library, the Digital Library of the Caribbean, Pioneer Days in Florida, America’s Swamp, Unearthing St. Augustine’s Colonial Heritage, and the Baldwin Library of Historical Children’s Literature.

The DPS manager will hire and supervise the proposed Digital Technician. DPS staff will provide training for the Digital Technician on equipment, handling of materials, and all imaging procedures. Each item will be digitized to meet the requirements of the item’s physical format. Individual pages and bound materials will be scanned on either Copibook overhead scanners or flatbed scanners, as appropriate, at a minimum of 300 ppi, 24 bit color. Advanced image enhancement will include adjustment of levels, skew, color and contrast. Images will be captured as uncompressed TIFF files (ITU T.6) at 100% scale. All imaging hardware and software will be calibrated regularly in order to maintain color fidelity and optimum image results. Project specifications for imaging are based on digitization specifications for the UF Digital Collections (UFDC). These specifications are optimized for digital archiving practices as outlined by the Florida Digital Archive and also optimized for data exchange with or harvesting by other digital libraries such as the U.S. National Science Foundation’s National Science Digital Library, the Digital Public Library of America (DPLA), and OCLC’s OAIster.

The FLMNH staff will create 3D scans of 25 specimens from the comparative specimen collection using a CT (computerized tomography) scanner which produces slices of an object and thus images the interior and provides detailed representation. Typically 3D scanners only image the surface and therefore do not fully characterize an object.

DPS staff will contract out with Scene Savers for the digitization of audio cassette tapes and 8MM film. The cost per audio cassette includes creating one master and one access copy per tape. Scene Savers will create a 96 KHz, 24 bit file and an MP3 file for preservation and access. Scene Savers will review the 8MM film by hand and make any necessary repairs. This may include replacing splices, adding leader or repairing broken sprocket holes. Scene Savers cleans the film and transfers it using a scanning system (the resulting digital file has the same frames per second as the original film, usually 18 fps) and creates two files from each 8mm film. Scene Savers transfers to standard definition, and creates an uncompressed file as the master (could be AVI or QT) and an MPEG 4 file as the access copy. To scan the slides, DPS staff will contract with Creekside Digital, a company specializing in the digitization of cultural heritage materials for libraries, archives, museums, and historical societies. Creekside Digital staff employ industry-standard best practices when performing format conversion.

After imaging and image enhancement, the Digital Technician and DPS staff will manage all aspects of image control and digital packaging including derivative image formation, quality control review at the package level, and deployment to UFDC servers. Project staff will derive JPG, JPG2000 and
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JPG thumbnail images from the master TIFF images. JPG2000 files enable zoom functionality in UFDC. During the quality control process, individual images will be assessed and errors will be noted for re-imaging of items. After quality control, the digital packages move to text conversion, mark-up, and METS file validation. DPS staff will ensure that all package-level metadata conforms to the national METS, to local extension schemas, to UFDC requirements, and for long-term digital preservation in the Florida Digital Archive. With the exception of photos, audio recordings, films, handwritten documents and items lacking significant text, all objects will go through Optical Character Recognition (OCR) processing to produce searchable text from digital images. DPS uses Prime Recognition’s PrimeOCR software. PrimeOCR licenses OCR engines and utilizes a voting technology to reduce recognition errors, resulting in over 95% accuracy. With final package approval, project staff will transfer the packages to the UFDC server for public access and metadata harvesting, send the packages to the FDA for preservation archiving, and save them to tape backup for local archival storage.

Following metadata creation and imaging, all original materials will be returned to SASC for physical preservation. The collection will continue to be available to researchers on the UF campus. The EAD finding aid for the collection will reside on the SASC website and will be edited to include links to the digital objects in UFDC and to the project website. Likewise, all UFDC records will include links to the EAD finding aid so that the resources cross reference.

Website Interface: The FLMNH’s Museum Technology unit will develop the project website. The application will be developed in AngularJS, with support pages written in HTML5/CSS3 and hosting will be provided by the Museum during development. A search interface will be designed to retrieve items from SobekCM and display in a results page on the site. Narrative pages will utilize the “parallax” effect to facilitate visually-appealing storytelling. An example of this type of design can be seen on the project mockup website (see Appendix L screen shots). The FLMNH and Libraries web development teams will implement, revise, and maintain the new website. After implementation by FLMNH, the website will be transferred to the Library servers and managed by the Libraries IT personnel. During the website design phase, user input will be sought from the community via focus groups and interviews. The community will include students, 4-8th grade teachers and researchers from humanities, social sciences and science disciplines to elicit inquiries that can be used to test the design and effectiveness of output. Not only will the results of this process inform the design phase of the website and metadata, but it also will enable future interoperability between the Libraries systems and those of the FLMNH.

Sustainability of project outcomes and digital content
UF is committed to perpetual, free public access to digital objects in the UF Digital Collections (UFDC) and also to the long-term digital preservation of all materials. All digital content in UFDC is indexed by and accessible via Google and similar search engines, and UF uses search engine optimization to enhance discoverability. The METS metadata created for all digital objects is automatically transformed into MARCXML and Dublin Core and widely available to digital libraries such as the U.S. National Science Foundation’s National Science Digital Library, the Digital Public Library of America (DPLA), and OCLC’s OAIster. Redundant preservation copies are maintained for all digital package content. The digital archive is the Florida Digital Archive (FDA), which is available at no cost to Florida’s public university libraries. The software programmed to support the FDA is modeled on the widely accepted Open Archival Information System. It is a dark archive and no public access functions are provided. It supports the preservation functions of format normalization, mass format migration and migration on request. The process of forwarding original files to the FDA is the key component in UF’s plan to store, maintain and protect electronic data for the long term. See the UF Digital Preservation page for more information. The Libraries and FLMNH will continue to sustain and update website, narratives, and primary school-centric activities, as needed.
Dissemination

The Wing Papers will be promoted broadly to local, national, and international scholars, teachers, and the general public. UF will create and, together with Advisory Board members, widely disseminate information about the project, its resources, and its outcomes. To increase discovery of and access to the Wing Papers, UF will contribute digital objects and metadata to digital repositories and collections and other open access systems via OAI/PHP harvest or APIs. The Libraries communications office will provide promotional and marketing services to implement many of the publicity strategies.

The project team will evaluate the efficacy of the dissemination by tracking visitors to the website, the usage statistics of the materials found in the collection, and re-sharing of social media postings.

Promotional activities will include:
- Press releases to media outlets, social media, and listservs, both general and subject-specific;
- Articles published in journals, newsletters, and blogs;
- Presentations at national and state conferences and meetings;
- Contributions of 3D objects to Thingiverse, youimagine.com, and UF’s 3D Learning Object Repository, with linkages to associated activities, to encourage discovery;
- Learning resources such as four to six lesson plans and activities for 4-8th grade teachers will be highlighted within the collection and website interface;
- Panel discussions through the FLMNH Science Café series and development of a related Human Café, will feature humanities and science scholars discussing humanities research themes; and
- Creation of a Wikipedia page and modification of the Environmental Archaeology and Women in Science Wikipedia pages will highlight the Wing Papers.

Appropriate conferences and meetings:
- Modern Language Association (MLA), (January 2018, Philadelphia; or January 2019)
- History of Science Society Conference (November 2018, Seattle; or November 2019)
- Society for the History of Technology (2018 or 2019)
- Association of College and Research Libraries (ACRL – Science and Technology Section and the Anthropology and Sociology Section), (April 2019, Cleveland; or April 2021, Seattle)
- Digital Library Federation (DLF), (2019 or 2020)
- National Women’s Studies Association Annual Conference (November 2019 or 2020)
- American History Association (January 2019, Chicago; or January 2020, New York)
- Society for Visual Anthropology Conference and Anthropology Association Annual Conference (TBD)
- Society for American Archaeology (Albuquerque NM spring 2019)
- International Congress of ArchaeoZoology (ICAZ) (fall 2018, Turkey or Australia)

Part of an international movement designed to foster conversations about science and the humanities within communities, the Florida Natural History Museum’s Science Café program began in fall 2011. Programs are offered seven times annually and take place in area restaurants with adult participants, from millennials to matures who purchase their own food and beverage. The programs feature a variety of topics from “Columbus and Cannibals in the Land of Cotton” to “Biology of Truffles” and “The First Settlers of the New World: Who, Where, When and How.” The Science Cafés are very popular, filling the first day registration is open. Attendance in spring 2016 was 79 to 90 participants which is the typical capacity of host restaurants. A parallel “Human Café” is planned and will emphasize climate studies aspects of Wing’s research. The Wing Papers will be presented in several cafés with themes linked to the narratives created as exemplars for this project. Subsequent café events will be envisioned based on other narratives produced after the website is available.

Dissemination of four to six educational activities will be accomplished through the FLMNH Discovery Zone, the FLMNH “She’s a Scientist” outreach program to Girl Scouts (Juniors and Cadettes,
grades 4-8), and the national EDSITEment website. Promotional efforts will target the project’s contextual resources including research possibilities for the humanities, utilization of 4-8th grade activities in the classroom, and youth-focused program activities in the Discovery Zone. The *Discovery Zone* is a new 2,000-square-foot permanent exhibit at the FLMNH designed for children ages eight and under, and the adults accompanying them. The FLMNH annual visitation for FY2016 totaled 206,813, including more than 15,000 university students. Approximately 25% of museum visitors participate in the Discovery Zone activities. The upcoming exhibit (see Appendix D for Discovery Zone design concepts) includes engaging, developmentally-appropriate components designed to encourage explorations of our cultural heritage, the uses of our state’s natural resources and environments by people in the past and today, and ways in which we learn about the past. Age-appropriate narratives and resources related to Wing’s research will provide opportunities for children to investigate topics she explored including domestication, human impact on environments, and culture contact.

The *Discovery Zone* also will have a variety of technologies that can effectively support young children’s learning and enhance their understanding. For example, document cameras and digital microscopes magnify three-dimensional objects, allowing more detailed investigation of small objects and collaborative viewing. Using this technology, children can view objects from multiple perspectives, angles and magnifications. In addition it encourages engagement, active learning, creativity, and social interaction. Children in the Discovery Room might use the document camera and digital microscope to compare and contrast different objects related to Wing’s research and learn more about the processes she engaged in through her studies.

Upper Elementary and Middle School Youth: The narratives and resources from Wing’s work will engage youth in grades 4-8 in exploring the roles and contributions of women in science, the history of science, research processes, and the development of the science of environmental archaeology. They will help foster an understanding of historical inquiry, analysis, and knowledge. And they will help youth learn about the use of evidence in reconstructing the past, similarities and differences among people of today and the past, chronology of events, and the interdependent relationship of humans to their environment. The narratives and resources will be incorporated into our Scout badge programs, Ask a Scientist public program, Discovery Zone, and school outreach. Discovery Kits will contain objects and activities that engage youth in guided exploration of different topics and the steps in scientific discovery.

**Work Plan**

**July – December 2017**

- Hire and train Metadata Specialist (Minson, O’Dell)
- Create project listserv (Minson)
- Manage selection process of collection documents to support narratives (Minson, Emery)
- Describe model records for all resource formats (O’Dell)
- Advisory Board and project team meet to develop work plan for reviewing project content and dissemination (Board; Project team)
- Hire and train Zooarchaeology Content Expert (Emery, Minson)
- Develop narrative #1: Ancient overexploitation (Zooarchaeology Content Expert; Emery)
- Identify examples of objects for inclusion in Fisheries narrative (Metadata Specialist; Zooarchaeology Content Expert; Emery)
- Review entire collection to identify sensitive materials, assess preservation and handling needs, and flag items requiring special handling or pre-imaging preservation treatments (Nemmers; Durant; Barnett; Metadata Specialist; Zooarchaeology Expert)
- Create metadata for first batch of materials and transfer from Smathers Library to DPS for imaging (Metadata Specialist; O’Dell; Zooarchaeology Expert; Nemmers)
- Identify and 3D scan specimens to support narrative examples (Emery; FLMNH staff)
January – June 2018
- Hire and train Digital Technician (Perry; Dinsmore)
- Apply preservation treatments (e.g., flattening) as needed – first batch (Barnett, Durant)
- Digitize and complete quality control for first batch of materials (Digital Technician)
- Return first batch to Smathers Library for post-imaging review and storage (Barnett, Nemmers)
- Create metadata for second batch of materials and transfer for imaging (Metadata Specialist; O’Dell; Zooarchaeology Expert; Nemmers, interns)
- Identify and 3D scan specimens to support thematic narratives (Emery; FLMNH)
- Develop narrative #2: Culture contact (Zooarchaeology Content Expert; Emery)
- Develop narrative #3: Domestication (Zooarchaeology Content Expert; Emery)
- Develop narrative #4: Women in research (Hawley)
- Develop narrative #5: History of a new science (Hawley)
- Develop narrative #6: Development of environmental archaeology and zooarchaeology (Reitz)
- Develop narrative #7: Humans and the Anthropocene (Emery)
- Develop narrative #8: Latin American cultural anthropology/ethnography, 1960s-80s (Freeman)
- Develop narrative #9: Latin American Studies – impact of environmental archaeology (Freeman)
- Develop narrative #10: Environmental Humanities (Harpold)
- Develop narrative #11: Visual Anthropology (Freeman)
- Develop narrative #12: Library and museum archives importance to humanities research (Hawley and Minson)
- Digitize slides (vended)

July – December 2018
- Apply preservation treatments (e.g., flattening) as needed – second batch (Barnett, Durant)
- Digitize and complete quality control for second batch (Digital Technician)
- Return second batch to Library for post-imaging review and storage (Barnett, Nemmers)
- Create metadata for third batch of materials and transfer for imaging (Metadata Specialist; O’Dell; Zooarchaeology Expert; Nemmers, interns)
- Develop interface and connections to SobekCM (Fazenbaker; Minson; Dinsmore; O’Dell; Emery)
- Identify examples of objects for inclusion in narratives (Emery; Zooarchaeology Content Expert; Metadata Specialist)
- Continue imaging of slides and begin digitization of audio interviews and movie reels (vended)

January – June 2019
- Apply preservation treatments (e.g., flattening) as needed – third batch (Barnett, Durant)
- Digitize and complete quality control for third batch (Digital Technician)
- Return third batch to Library for post-imaging review and storage (Barnett, Nemmers)
- Create metadata for fourth batch of materials and transfer for imaging (Metadata Specialist; O’Dell; Zooarchaeology Expert; Nemmers)
- Develop interface and connections to SobekCM and ZooarchNet/Specify (Mison; Dinsmore; O’Dell; Emery; Guralnick; Fazenbaker)
- Identify examples of objects for inclusion in narratives #2-5 (Emery, Zooarchaeology Content Expert; Metadata Specialist; intern)
- Continue digitization of slides, audio interviews and movie reels (vended)
- Develop publicity for youth educational activities and narratives (Dunckel; interns)

July – December 2019
- Apply preservation treatments (e.g., flattening) as needed – fourth batch (Barnett, Durant)
- Digitize and complete quality control for fourth batch (Digital Technician)
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- Return fourth batch to Library for post-imaging review and storage (Barnett, Nemmers)
- Create metadata for fifth batch of materials and transfer for imaging (Metadata Specialist; O’Dell; Zooarchaeology Expert; Nemmers)
- Develop interface and connections to SobekCM and ZooarchNet/Specify (Minson; Dinsmore; O’Dell; Emery; Guralnick; Fazenbaker)
- Review of narratives and interface (Advisory Board)
- Assessment of website and metadata (Cataldo)
- Science Café (Hawley; Emery; Dunckel; Freeman; Harpold)

January – June 2020
- Apply preservation treatments (e.g., flattening) as needed – fifth batch (Barnett, Durant)
- Digitize and complete quality control for fifth batch (Digital Technician)
- Return fifth batch to Library for post-imaging review and storage (Barnett, Nemmers)
- Review of narratives and interface (Advisory Board)
- Final editing of narratives and interface based on Board review (Minson; Emery; Dunckel)
- Humans in Science Café (Hawley; Emery; Dunckel; Freeman; Harpold)
- Advisory Board approves final narratives and interface (Advisory Board)
- Outreach through 4-8th grade Scouts/Cadettes (Dunckel; interns)

Staff
The Wing Papers Advisory Board will use their extensive network of national and international colleagues in the humanities to advise on various aspects of the project activities, and will disseminate information about and encourage future development of the Papers. These scholars will assist the Project Team in writing the thematic narratives describing what Wing’s Papers tell us about the era of human impact, the role of women in research, and the history of science, and assist in organizing public outreach cafés. As leading experts in English, history, environmental studies, biodiversity, Latin American studies, and environmental archaeology, the Advisory Board members will effectively and authoritatively promote the project to a broad audience. Their efforts, along with publicity strategies undertaken by UF and external project supporters, will ensure that the project deliverables receive the widest possible exposure. Members include the following faculty members (see Appendix I for resumes and Appendix J for letters of commitment):

- Emilio Bruna, UF Wildlife Ecology & Conservation, Tropical Conservation & Development
- Sid Dobrin, UF Department of English, Eco-Composition, Digital Humanities
- Robert Guralnick, Florida Museum of Natural History, Biodiversity Informatics
- Terry Harpold, UF Department of English, Climate and Humanities, Digital Humanities
- Sarah Kansa, Alexandria Archives/Open Context, archaeoinformatics
- Chris McCarty, UF Department of Anthropology, social network analysis
- Bonnie Moradi, UF Psychology, Center for Women’s Studies
- Alan Rauch, University of North Carolina – Charlotte, Department of English, History of Science
- Elizabeth Reitz, University of Georgia, Environmental Archaeology
- Betty Smocovitis, UF Biology, History of Science
- Elizabeth S. Wing, Professor Emeritus, UF Environmental Archaeology

Project Team Members
Valrie Minson (Project Director), (.15 FTE cost share, three years) serves as Chair of Marston Science Library overseeing all aspects of the UF Marston Science Library. Role: Guide the overall project, support communication among the FLMNH, Advisory Board, and Project Team members, and provide project leadership, coordination, outreach, and promotion.
Kitty Emery (Project Co-Director), (.10 FTE cost share, three years) serves as Associate Curator of the Environmental Archaeology Program (EAP) of the Florida Museum of Natural History, overseeing all aspects of the EAP. **Role:** Facilitate access to, and digitization of, the Wing Papers; interpret and provide guidance on metadata enhancement of the digital products (including supervision of Zooarchaeology Content Expert); enhance communication between Wing and project members; provide advice in the design of the digital portal; provide authorship and guidance on authorship of the narratives.

Chelsea Dinsmore (Project Co-Director) (.10 FTE cost share, three years) serves as Curator for University of Florida Digital Collections (UFDC) and Director of the Digital Production Services unit. **Role:** Oversee and coordinate the technical management of digitization processing, and dissemination with various library channels through integrated technologies through the SobekCM Open Source Repository Software that powers the Elizabeth S. Wing Papers and the UFDC.

Allison O'Dell (Project Co-Director), (.10 FTE cost share, three years) serves as Metadata Librarian facilitating the discovery of Libraries and University resources. **Role:** Ensure that descriptive metadata is robust, standards-compliant, shareable, and meets a variety of user needs. O'Dell will establish metadata guidelines and procedures, oversee metadata production and related processes with the Metadata Specialist, and train metadata personnel on guidelines, procedures, and software. She will transform project metadata to Audubon Core and other formats, and coordinate data deposit and harvesting across platforms.

Laurie N. Taylor, PhD (.08 FTE cost share, three years) serves as Digital Scholarship Librarian. **Role:** Collaborate with project directors in creating new scholastic partnerships, including collaboration with the UF Digital Humanities Graduate Certificate Board for implementation in the UF Digital Humanities graduate studio class, and facilitation of digital and public scholarship activities to disseminate the project.

Betty A. Dunckel, (.05 FTE cost share, three years) is the Program Director/Associate Scientist for the Florida Museum of Natural History’s Center for Science Learning (CSL). **Role:** Facilitate the development of age-appropriate narratives and resources related to Wing’s research for the Discovery Zone exhibit and youth in grades 4-8, and for FLMNH Scout badge programs, Ask-a-Scientist public program, and school outreach. Coordinate the Café programs for adult audiences.

John Nemmers (.05 FTE cost share, three years) serves as Associate Chair and Head of Collection Services, Special & Area Studies Collections. **Role:** Oversee physical work spaces for project staff in Smathers Library, provide training on the use and handling of archival materials, participate in the transformation of EAD finding aid metadata to digital object metadata, revise the EAD finding aid for the Wing Papers to link to the digital content, and review website functionality.

Haven Hawley, PhD (.02 FTE cost share, three years) serves as Chair, Special & Area Studies Collections. **Role:** Assist in development and implementation of the Science and Human Café outreach programs, and assist in development of humanities narratives for the website.

Laura Perry (.03 FTE cost share, three years) serves as Production Manager for Digital Production Services (DPS). **Role:** Assign and maintain workflows among imaging activities and the Quality Control unit for images, bibliographic, and textual processing; train and supervise the Project Digital Technician, and work with internal staff to ensure digital content is ingested into the UFDC and archived accordingly.

Jane Pen (.05 FTE cost share, three years) serves as Metadata and Quality Control Coordinator. **Role:** Supervise the quality control assessment of images, creation of preliminary XML used to create metadata, and text processing; support training of the Project Quality Control Coordinator; and oversee the quality control workflow.

Greg Allen (.02 FTE cost share, three years) serves as Original Cataloger for science materials. **Role:** Advise on metadata best practices in the life sciences, and provide additional support for training and coordinating metadata personnel.
Fletcher Durant (.02 FTE cost share, three years) serves as Preservation Librarian. **Role:** Manage the physical care and treatment of the collection objects during the project. Possible treatments will include surface cleaning, humidification and flattening, separation of attached or adhered items to facilitate access, and mending. Durant will develop and construct specialized housings for the permanent storage of unusual formats. He will identify special handling requirements and work with DPS to facilitate imaging. Following imaging he will review all originals and approve materials for return to storage.

Terry Harpold (.01 FTE cost share, three years) serves as Associate Professor of English, Film and Media Studies. **Role:** Serves on the Advisory Board, and assists in development and implementation of the Science and Human Café outreach programs, and assists in development of humanities narratives for the website.

(.01 FTE cost share, three years) serves as Legacy Formats (AV) Coordinator. **Role:** Ensure all materials are loaded and archived to redundant UF storage systems for access and long-term digital preservation and complete optical character recognition for all materials entering the UFDC.

Jimmy Barnett (.01 FTE cost share, three years) serves as Conservation Technician in the Conservation & Preservation Unit. **Role:** Barnett will receive collection materials, prepare for digitization, identify special handling needs during digital capture, and prepare any final housings for materials.

Richard Freeman (.01 FTE cost share, three years) serves as Anthropology Librarian. **Role:** Assist in development and implementation of the Science and Human Café outreach programs, assist in development of the humanities narratives for the website.

Sarah Fazenbaker (.01 FTE cost share, one year) serves as Web Services Manager for the Florida Museum of Natural History. **Role:** Supervise the team tasked with creating the design and functionality of the search interface and narrative web pages, including user stories, wireframes, visual design, information architecture, search controls, record display and browser/device testing.

Tara Cataldo (.01 FTE cost share, one year) serves as Biological and Life Sciences Librarian. **Role:** Perform usability testing on website and metadata, giving feedback to metadata and web design teams.

**Metadata Specialist (NEH request, 3 years) Role:** Create, enhance, and refine metadata in support of the UFDC; work closely with the Project Digital Technician and Zooarchaeology Content Expert; facilitate communication between DPS and the metadata teams, create records in the Wing collection; and facilitate processing for vended digitization. (See Appendix E Position Description)

**Project Digital Technician (NEH request, 2.5 years) Role:** Perform quality assessment, assurance, and control activities to ensure quality control standards are consistent across all digitized materials; examine, enhance, and/or correct structural metadata and text processing; ensure workflows support consistent quality for bibliographic and structural metadata; and review image files and text files during full quality control processing for local and vended digitized materials. (See Appendix F Position Description)

**Zooarchaeology Content Expert (NEH request, 2.5 years) Role:** Perform full original cataloging for the Wing collection, including descriptive metadata with all related notes, subject headings, authority-controlled name and series headings, classification numbers, and relevant information for rare materials; ensures all cataloged materials have complete metadata and bibliographic records; oversee metadata processes with the project coordinator and DPS; and updates bibliographic records, and liaises with FLMNH regarding bibliographic records and metadata. (See Appendix G Position Description)

**Internships** (cost share for four interns, over two years) **Role:** Two interns will work with FLMNH to develop activities for the FLMNH’s Discovery Zone exhibit, and create narratives and resources targeting upper elementary and middle school youth for the project website and for public programming provided by the museum. Two interns will create, enhance and refine metadata in support of the Wing Papers project. (See Appendix H Position Description)
History of previous grant awards received from federal and nonfederal sources

In terms of UF’s digital collection innovations, as part of the From the Air: The Photographic Record of Florida’s Lands project (2002-2010), $263,884 funded by Florida’s Library Services & Technology Act, UF developed technology, procedures, expertise and infrastructure required to digitize and make available 160,000 historic Florida aerial photos, and associated georeferenced data, which are globally accessible in the Florida Aerial Photography. Early development of system architecture required to link maps with metadata occurred in a 2003 project funded by the Institute of Museum and Library Services, Ephemeral Cities: A Model for Developing an Historic Digital Atlas Based on Three Florida Cities, $184,609. Editing tools for digitization and metadata that have been used for Unearthing St. Augustine initially were developed as part of the Digital Library of the Caribbean, a Technological Innovation and Cooperation for Foreign Information Access (TICFIA), $110,671, project from 2005 to the present. UF Digital Collections currently allows authenticated users to edit object metadata online.

Other projects which have contributed to the infrastructure and capacity of the Libraries digital collections projects include the following grant awards.

America’s Swamp: The Historical Everglades Project (NHPRC, RD 10018, 2009-2011). PI: John Nemmers. Co-PI: Laurie Taylor, Digital Projects Librarian. The objective was to digitize 99,690 pages in six archival collections that document the despoiling of the Everglades and the development of South Florida in the late 19th and early 20th centuries. UF successfully exceeded this objective with 114,703 pages digitized (15% above target) while also keeping project costs under $138,543 ($65,716 NHPRC and $72,827 UF cost share).

Saving St. Augustine’s Architectural Treasures (National Park Service and National Endowment for the Humanities, 2010-2011). UF project director: John Nemmers (this was a collaborative project with Flagler College as lead partner). Successfully conserved and digitized 260 architectural drawings for the National Historic Landmark Hotel Ponce de Leon and the Flagler Memorial Presbyterian Church designed by the Carrere & Hastings firm.

Unearthing St. Augustine’s Colonial Heritage (National Endowment for the Humanities, 2012-2015). PI: Tom Caswell. Co-PI: James Cusick, Curator of the PK Yonge Library of Florida History. Co-PI: John Nemmers. The objective was to digitally preserve a collection of hidden and fragile resources related to colonial St. Augustine, consisting of over 20,000 maps, drawings, photographs and documents. The majority of the digital content was contributed by partners the City Archaeology Program and the St. Augustine Historical Society, but selected maps and photos were digitized from the Government House Research Library. The digital content was geolocated so that users can browse and search using a Google Maps interface.

Pioneer Days in Florida: Diaries and Letters from Settling the Sunshine State, 1800-1900 (NHPRC RD 10114, 2013-2015). PI: James Cusick, Curator of the PK Yonge Library of Florida History. Co-PI: John Nemmers. The objective was to digitize 36,530 pages of diaries and letters describing frontier life in Florida from the end of the colonial period to the beginnings of the modern state. UF successfully exceeded this objective with 52,459 pages digitized (43% above target) while also keeping project costs under $159,224 ($79,612 NHPRC and $79,612 UF cost share). The project received the 2015 Award for Access to Primary Sources from the Center for Research Libraries.
The grant project described below awarded to the Florida Museum of Natural History through internal UF funds, contributes to The Humanity Within Her Science project by providing the opportunity to connect the proposed project humanities content to the scientific data collection, and vice versa.

Creating ZooarchNet as an Archaeoinformatics Platform to Mobilize Archaeological Animal Biodiversity Data (UF Informatics Institute Seed Fund, June 2016) PIs: Kitty Emery, PhD; and Robert Guralnick, PhD. The objective is to digitize and disseminate zooarchaeological data spanning the early Holocene to the present. The project will execute two innovations: 1) repurpose and expand a cloud-based publishing system to establish "ZooarchNet" and 2) build ZooarchNet to be linked open data ready. (Award: $49,036)
Project Deliverables

1. Digitization of the entirety of the Wing Papers:
   - 40 linear feet of papers including correspondence, research notes, planning documents, and unpublished reports.
   - Thirteen (13) audio cassette recordings of interviews with Wing’s colleagues at archaeological sites, documenting local fishing, agriculture, and environmental impacts throughout her career, field and research.
   - Ten (10) 8MM films with footage of Wing in the field, interviews with people living near archaeological sites.
   - 1,500 slides and photographs of environments, people, and archaeological sites.
   - 780 pages from field notebooks documenting life and research at archaeological sites.
   - 81 hand-drawn sketches of fishes and accompanying color slides.
   Each object will be reproduced digitally for preservation and access. Selected objects may not be published online digitally because they contain sensitive information.

2. 3D imaging of 25 specimens from the Environmental Archaeology Program collection at the Florida Museum of Natural History (FLMNH).

3. Creation of original metadata records for all objects in the Wing Papers and for the 3D specimens.

4. An EAD finding aid and MARC catalog record for the Wing Papers. The finding aid will be created in January 2017 prior to the start of this project, with archival description primarily at the folder level and occasionally at the item level. Following digitization, each folder or item level description in the finding aid will be edited to include a link to the digital objects in the digital collection. The MARC catalog record describing the Wing Papers at the collection level will be created in January 2017. Following digitization, the record will be revised to include a link to the digital collection.

5. Creation of a project website providing a search interface for discovering and interacting with digital content, thematic narratives, educational content, outreach information, and project documentation.

6. Creation of a Wikipedia page on the Wing Papers collection and project.

7. Twelve (12) thematic narratives on Wing, her research, the history of science, and other humanities-focused subjects. Each narrative will incorporate digital objects and 3D-scanned specimens.

8. Public education and outreach activities including a Science Café, a Human Café, creation of four to six 4 to 8th grade activities disseminated through FLMNH Discovery Zone, the FLMNH “She’s a Scientist” outreach program to Girl Scouts (Juniors and Cadettes, grades 4 to 8), and the national EDSITEment website.
### List of Participants

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen, Greg</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Barnett, Jimmy</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Bruna, Emilio</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Cataldo, Tara</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Dinsmore, Chelsea</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Dobrin, Sid</td>
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</tr>
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<td>Dunckel, Betty</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Durant, Fletcher</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Emery, Kitty</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Fazenbaker, Sarah</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Freeman, Richard</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Guralnick, Robert</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Harpold, Terry</td>
<td>University of Florida</td>
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<tr>
<td>Hawley, Haven</td>
<td>University of Florida</td>
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<tr>
<td>Kansa, Sarah</td>
<td>Alexandria Archive Institute</td>
</tr>
<tr>
<td>Kohlstedt, Sally Gregory</td>
<td>University of Minnesota</td>
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<td>McCarty, Chris</td>
<td>University of Florida</td>
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<td>Minson, Valrie</td>
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<td>Moradi, Bonnie</td>
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<tr>
<td>Nemmers, John</td>
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<tr>
<td>O'Dell, Allison</td>
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<td>Pen, Jane</td>
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<td>Perry, Laura</td>
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<tr>
<td>Rauch, Alan</td>
<td>University of North Carolina</td>
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<tr>
<td>Rader, Karen</td>
<td>Virginia Commonwealth University</td>
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<tr>
<td>Reitz, Elizabeth</td>
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<td>Smocovitis, Vassiliki Betty</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Taylor, Laurie</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Wing, Elizabeth S.</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Zeder, Melinda</td>
<td>Smithsonian Institute</td>
</tr>
</tbody>
</table>
# Budget Form

**Applicant Institution:** University of Florida  
**Project Director:** Valrie Minson  
**Project Grant Period:** 06/01/2017 through 05/31/2020

<table>
<thead>
<tr>
<th>Computational Details/Notes</th>
<th>Year 1 (notes)</th>
<th>Year 2 (notes)</th>
<th>Year 3 (notes)</th>
<th>Project Total</th>
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<tbody>
<tr>
<td></td>
<td>06/01/2017-05/31/2018</td>
<td>06/01/2018-05/31/2019</td>
<td>06/01/2019-05/31/2020</td>
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<td><strong>1. Salaries &amp; Wages</strong></td>
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<td></td>
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<td></td>
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<tr>
<td>Metadata Specialist (TBD-Temporary Library Assistant 3 Position)</td>
<td>30 hrs/wk X 3 yrs</td>
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<td>$24,852</td>
<td>100%</td>
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<tr>
<td>Zooarchaeology Content Expert (TBD-Temporary OPS)</td>
<td>20 hrs/wk X 2.5 yrs</td>
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<td>$10,400</td>
<td>100%</td>
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<tr>
<td>Digital Technician (TBD-Temporary OPS)</td>
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<td>$7,800</td>
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<td><strong>2. Fringe Benefits</strong></td>
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<tr>
<td>Metadata Specialist</td>
<td>44.8%</td>
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<td>$11,471</td>
<td>$11,814</td>
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<td>Other OPS Personnel</td>
<td>7.6%</td>
<td>$1,383</td>
<td>$2,860</td>
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<td><strong>3. Consultant Fees</strong></td>
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<td><strong>4. Travel</strong></td>
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OMB No 3136-0134  
Expires 6/30/2018
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<tr>
<td>6. Services</td>
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<tr>
<td>Vended Digitization</td>
<td>1,500 slides; 10 8MM; 13 Audio Tapes</td>
<td>$6,007</td>
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<tr>
<td>7. Other Costs</td>
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<tr>
<td>3D Scanning &amp; Post Processing</td>
<td>25 Specimens</td>
<td>$3,250</td>
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<td>$3,250</td>
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<tr>
<td>Development of Interface/Website</td>
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<td>$11,800</td>
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<td>8. Total Direct Costs</td>
<td>Per Year</td>
<td>$64,826</td>
<td>$89,371</td>
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<td>9. Total Indirect Costs</td>
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<tr>
<td>32.6% of MTDC; DHHS; 07/01/2016</td>
<td>Per Year</td>
<td>$21,133</td>
<td>$29,135</td>
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<td>10. Total Project Costs</td>
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<tr>
<td>(Direct and Indirect costs for entire project)</td>
<td></td>
<td></td>
<td></td>
<td>$310,410</td>
</tr>
<tr>
<td>11. Project Funding</td>
<td>a. Requested from NEH</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Outright:</td>
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<td></td>
<td>Federal Matching Funds:</td>
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<td>TOTAL REQUESTED FROM NEH:</td>
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<td></td>
<td>b. Cost Sharing</td>
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<tr>
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<td>Applicant's Contributions:</td>
<td>$364,744</td>
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<td>Third-Party Contributions:</td>
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<td>Project Income:</td>
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<tr>
<td></td>
<td>Other Federal Agencies:</td>
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<tr>
<td></td>
<td>TOTAL COST SHARING:</td>
<td>$364,744</td>
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<tr>
<td>12. Total Project Funding</td>
<td></td>
<td></td>
<td></td>
<td>$675,154</td>
</tr>
</tbody>
</table>
Appendix A

Works Cited


Wing, E. S. 1957. Reproduction in the pocket gopher, Geomys pinetis (Rafinesque), in Northcentral Florida.
Peer Reviewed Publications Resulting from Research On or Substantially Using the Florida Museum of
Natural History, Environmental Archaeology Program Collections

<table>
<thead>
<tr>
<th>Year</th>
<th>Author(s)</th>
<th>Title and Details</th>
</tr>
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<tbody>
<tr>
<td>Year</td>
<td>Author(s)</td>
<td>Title</td>
</tr>
<tr>
<td>------</td>
<td>-----------</td>
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</tr>
<tr>
<td>2016</td>
<td>Emery, Kitty, Erin Thornton, Ashley Sharpe, Petra Cunningham-Smith, Lisa Duffy, and Brandon McIntosh.</td>
<td>Testing Osteometric and Morphological Methods for Turkey Species Determination in Maya Assemblages. <em>Journal of Archaeological Science</em></td>
</tr>
<tr>
<td>Year</td>
<td>Authors</td>
<td>Title</td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
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</tr>
<tr>
<td>Year</td>
<td>Authors</td>
<td>Title</td>
</tr>
<tr>
<td>------</td>
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</table>


<table>
<thead>
<tr>
<th>Year</th>
<th>Authors</th>
<th>Title</th>
<th>Journal/Editor</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>Sharpe, Ashley E.</td>
<td>2016. Animals of the First Maya States: Zooarchaeological and Stable Isotopic Analyses from Ceibal, Guatemala.</td>
<td>Released: 2016-03-03. <em>Open Context</em> <a href="http://opencontext.org/projects/d69293e8-c8a7-4fc0-b3e3-4c2ff23486e6">http://opencontext.org/projects/d69293e8-c8a7-4fc0-b3e3-4c2ff23486e6</a>, DOI: <a href="http://dx.doi.org/10.6078/M7HH6H0P">http://dx.doi.org/10.6078/M7HH6H0P</a>.</td>
</tr>
<tr>
<td>Year</td>
<td>Authors</td>
<td>Title</td>
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<tr>
<td>------</td>
<td>---------</td>
<td>-------</td>
<td></td>
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<tr>
<td>2014</td>
<td>Storey, Alice A; Matisoo-Smith, Elizabeth A</td>
<td>No evidence against Polynesian dispersal of chickens to pre-Columbian South America. <em>PNAS</em> 111(35):E3583.</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>Thornton, Erin Kennedy and Olivia Ng</td>
<td>Late 19th and Early 20th Century Animal Use at Holotunich, Belize. In <em>Archaeology of Ancient Mesoamerican</em></td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td>Authors &amp; Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>----------------</td>
<td></td>
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<tr>
<td>2009</td>
<td>Turvey, Samuel T.</td>
<td>Holocene Extinctions 2009 Oxford University Press – his chapter Holocene Mammal Extinctions</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>Walker, Karen J. and Donna M. Surge</td>
<td>Developing Oxygen Isotope Proxies from Archaeological Sources for the Study of Late Holocene Human-Climate Interactions in Coastal Southwest Florida. <em>Quaternary International</em> 150:3-11.</td>
<td></td>
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</tbody>
</table>

Also note Sean Miller (UF Wunderkammer Project - http://harn.ufl.edu/linkedfiles/pressrelease-wunderkammer.pdf) and Eugene Parnell (U Washington Professor) – visual arts projects
## Processing and Preservation Plan

<table>
<thead>
<tr>
<th><strong>Processor</strong></th>
<th>John Nemmers</th>
<th><strong>Date Filed</strong></th>
<th>6/23/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Collection Title</strong></td>
<td>Elizabeth Wing Papers</td>
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<td></td>
</tr>
<tr>
<td><strong>Curatorial Area</strong></td>
<td>Manuscripts</td>
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<td></td>
</tr>
<tr>
<td><strong>Source of Acquisition</strong></td>
<td>FLMNH</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Call Number</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Creator</strong></td>
<td>Elizabeth Wing and FLMNH employees in her lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Extent</strong></td>
<td>Files of correspondence, research notes, field notebooks, project planning documents, reports, and other papers: 40 linear feet. Photographic prints and slides: 1,500. Audio cassette tapes (interviews): 13. Films (8MM): 10. Estimated total extent is 42.5 linear feet.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Level of Control:** The files mostly are arranged and described at the folder level, although the field notebooks and reports are at the item level. The audiovisual materials are mostly item level.

**Summary of the collection:** Primarily dating from the 1960s to the 1990s, the collection documents the research and professional activities of Elizabeth Wing of the Florida Museum of Natural History, and also documents the development of the new field of Environmental Archaeology. The FLMNH maintained the collection until its transfer to SASC in 2016. The bulk of the collection is comprised of correspondence, field notebooks from archaeological sites, research notes and data, administrative files, project planning documents, reports, sketches and other papers. The photographs primarily are of archaeological sites, environments and people. The audio tape interviews are with Wing’s colleagues at archaeological sites. The film footage is of Wing in the field and also interviews with individuals living near archaeological sites. There are some sketches of

**Existing Arrangement/Description**
The existing arrangement and description are very good. The majority of the materials are arranged by site accession number, and the original filing order has been maintained. Some materials are arranged at the item level (e.g., field notebooks and reports), and all are well described. Several of the folders and items are undated, but dates are easily determined from contents.

**Proposed Arrangement/Description**
Maintain folder level for files and photos, and item level for field notebooks, reports and film and audio materials. If materials can be described in aggregates do so in lieu of item-level description. Folder and item descriptions will be enhanced to include consistent, full descriptions (e.g., ensuring that all folders have dates). Original order is logical and does not need to be adjusted.

**Preservation Actions / Physical Condition Issues**
The initial preservation review revealed that the materials are in extremely good condition and will require minimal preservation actions. The majority of the preservation issues can be remedied by purchasing appropriate containers, such as archival folders and polyester sleeves. Some field notebooks and reports currently housed in 3-ring binders or similar binders will be transferred to archival folders. Photographic negatives will be transferred to sleeves. The audio recordings and films should be digitized for preservation and access, but the original media are in good condition.

**Appraisal and Disposition Decisions**
The entire collection will be preserved and made available to researchers, and this should not require appraisal decisions at lower levels. A few copies were identified, which could be discarded, but it is unlikely that materials will be disposed of during processing.
<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Because of the very good arrangement and description, we should estimate 4 processing hours per linear foot.</td>
</tr>
<tr>
<td>Approx. 42.5 linear feet x 4 processing hours = 170 processing hours</td>
</tr>
<tr>
<td>Processing will be completed by Steve Duckworth and John Nemmers.</td>
</tr>
<tr>
<td>Estimate 4-5 weeks to process the collection and publish the finding aid.</td>
</tr>
<tr>
<td>Processing activities tentatively scheduling for Fall 2016 to be completely before January 2017.</td>
</tr>
</tbody>
</table>

| Revisions (include date of revisions) |
SUMMARY OF POSITION ROLE/RESPONSIBILITIES

The Metadata Specialist creates, enhances, and refines library metadata in support of the University of Florida Digital Collections (UFDC) Elizabeth S. Wing Papers collection. This position provides a combination of services, including resource description, in-depth indexing, and controlled vocabulary development. The Metadata Specialist collaborates with a larger Wing Metadata Team to design and produce effective metadata that supports user needs.

ESSENTIAL FUNCTIONS OF THE JOB AND THE PERCENTAGE OF TIME SPENT ON EACH FUNCTION

50% Resource Description
- Applies knowledge of disciplines and topics represented by the Elizabeth S. Wing Papers collection (zooarchaeology, environmental history, women in science), as well as research methods in the humanities, to create and/or enhance descriptive metadata.

30% In-depth Indexing
- Provides in-depth indexing of resources with project-appropriate controlled vocabularies.

10% Thesaurus Contributions
- Contributes to authority work and the establishment of names and concepts in controlled vocabularies.

10% Documentation and Coordination
- Documents decisions, procedures/processes, and workflows for use on the Elizabeth S. Wing Papers project.
- Communicates progress to Metadata Librarian and entire Metadata Team.
- Provides cross-training to colleagues and student assistants.

SUPERVISION

Procedures are determined in close consultation with the Metadata Librarian (supervisor) and Chair of Marston Science Library. The Metadata Librarian is available for brainstorming ideas and solving problems. Meets weekly with Elizabeth S. Wing Papers Metadata Team to ask questions, bring up problems, and to review and set workflow priorities.

NORMAL WORK SCHEDULE

Work may be performed on a flexible schedule, with some availability between 10 a.m. and 4 p.m., Monday-Thursday, to meet with colleagues.

EDUCATION, TRAINING, AND EXPERIENCE

Minimum Qualifications:
- High School diploma or GED and 4 years of library or related clerical / customer service experience; or a Bachelors degree and one year of library or related clerical / customer service experience.
- Strong oral and written communication skills
- Ability to work as part of a dynamic team

Preferred Qualifications:
- Experience with and/or education in library, archives, or museum cataloging
- Experience with OCLC Connexion and/or Integrated Library Systems
- Familiarity with library metadata content standards (e.g., RDA, DACS)
- Familiarity with library metadata schemas (e.g., METS, MODS, MARC, VRA Core, EAD, EAC-CPF)
• Academic and/or professional background in the humanities
• Experience creating knowledge organization systems (controlled vocabularies, taxonomies, library thesauri, and/or ontologies)
• Experience writing policy, guideline, and procedure documentation

OTHER CHARACTERISTICS OF THE POSITION

POLICY MAKING AND/OR INTERPRETATION
Recommends changes of and additions to the established policies and procedures regarding UFDC metadata and provides documentation of policy and procedures relating to project operations.

PROGRAM DIRECTION AND DEVELOPMENT
Responsible for recommending changes in workflow design and development to assure adherence to best practices as well as efficient use of time and resources. Introduces new concepts and approaches to the department for review.

COMMUNICATION
Frequent contact with members of the project team and occasional contact with members of the George A. Smathers Libraries.

CREATIVITY, STRATEGY AND LEADERSHIP
Ability to think critically about new ways to solve a wide variety of problems. Considerable creativity required to adapt technology to local needs and provide leadership.

IMMEDIATE SUPERVISOR:  Allison O’Dell, Metadata Librarian
Project Digital Technician

Job Description

The University of Florida Digital Collections represents over 10 million pages of digital and digitized materials from the collections of the University of Florida and partner institutions. The Project Digital Technician will work across various units with staff in Digital Production Services at the University Libraries.

Work in the Imaging Unit of the Digital Production Services Department will consist of preparation of newspapers, books or other materials for digital capture. Imaging can be conducted on a number of different scanners. This position may also perform online searches of digital content and review/enhance the accuracy of metadata.

Duties and Responsibilities:

- Images source materials using CopiBook scanners and other hardware
- Performs image correction individually or in bathes using Adobe Photoshop and other software
- Monitor work flow history using department database
- Perform quality control on files to assure image consistency, pagination and sectioning and other work as assigned within the Imaging Unit
- Data entry to bring metadata up to set standards

Minimum Qualifications

- Strong computer skills and demonstrated ability to work accurately in detail-oriented, busy production environment
- Ability to communicate effectively

Preferred Qualifications

- Excellent organizational skills, ability to set and follow a written schedule, and the ability to work independently
- Familiarity with Adobe Photoshop, Microsoft Office Suite is preferred
Zooarchaeology Content Specialist
Cataloging & Discovery Services

SUMMARY OF POSITION ROLE/RESPONSIBILITIES

The Zooarchaeology Content Specialist creates, enhances, and refines library metadata in support of the University of Florida Digital Collections (UFDC) Elizabeth S. Wing Papers collection, with an emphasis on archaeological and zoological description. This position provides a combination of services, including resource description, in-depth indexing, and controlled vocabulary development. The Zooarchaeology Content Specialist collaborates with a larger Wing Metadata Team to design and produce effective metadata that supports user needs.

ESSENTIAL FUNCTIONS OF THE JOB AND THE PERCENTAGE OF TIME SPENT ON EACH FUNCTION

70% Resource Description
• Applies knowledge of disciplines and topics represented by the Elizabeth S. Wing Papers collection (environmental archaeology, zooarchaeology, biology, anthropology), as well as research methods and history of development of research in these disciplines and in the humanities more generally, to create and/or enhance descriptive metadata.
• Provides in-depth indexing of resources with project-appropriate controlled vocabularies (biological and cultural).

15% Thesaurus Contributions
• Contributes to authority work and the establishment of names and concepts in controlled vocabularies.

10% Documentation and Coordination
• Documents decisions, procedures/processes, and workflows for use on the Elizabeth S. Wing Papers project.
• Communicates progress to Environmental Archaeology Curator (supervisor), Metadata Librarian and entire Metadata Team.

5% Exemplar Narratives
• Writes three narratives illuminating Wings research on zooarchaeological evidence of ancient overexploitation, culture contact, and domestication.

SUPERVISION

Procedures are determined in close consultation with the Environmental Archaeology Curator (supervisor) and Metadata Librarian, particularly during early phases of the project. Meets weekly with Elizabeth S. Wing Papers Metadata Team to ask questions, bring up problems, and to review and set workflow priorities.

NORMAL WORK SCHEDULE

Work may be performed on a flexible schedule, with some availability between 10 a.m. and 4 p.m., Monday-Thursday, to meet with colleagues.

EDUCATION, TRAINING, AND EXPERIENCE

Minimum Qualifications:
• Bachelor’s degree in anthropology with minimum two years’ experience in zooarchaeology.
• Strong oral and written communication skills
• Ability to work as part of a dynamic team

Preferred Qualifications:
• Experience with field of Zooarchaeology or Environmental Archaeology
• Experience with and/or education in environmental archaeology data management, library, archives, or museum cataloging
• Familiarity with zoological and archaeological terminology and with bio- and archaeo-informatics metadata terminology
• Academic and/or professional background in the humanities, particularly anthropology
• Experience creating knowledge organization systems (controlled vocabularies, taxonomies, library thesauri, and/or ontologies)
• Experience writing policy, guideline, and procedure documentation

OTHER CHARACTERISTICS OF THE POSITION

POLICY MAKING AND/OR INTERPRETATION
Recommends changes of and additions to the established policies and procedures regarding UFDC metadata and provides documentation of policy and procedures relating to project operations.

PROGRAM DIRECTION AND DEVELOPMENT
Responsible for recommending changes in workflow design and development to assure adherence to best practices as well as efficient use of time and resources. Introduces new concepts and approaches to the Metadata Team for review.

COMMUNICATION
Frequent contact with members of the project team and occasional contact with members of the George A. Smathers Libraries.

CREATIVITY, STRATEGY AND LEADERSHIP
Ability to think critically about new ways to solve a wide variety of problems. Considerable creativity required to adapt technology to local needs and provide leadership.

IMMEDIATE SUPERVISOR: Kitty Emery, FLMNH Curator of Environmental Archaeology
Internship Position Descriptions

**POSITION:** Educational Resources Intern  
**REPORTS TO:** Zooarchaeology Curator

Internship Position Descriptions

**Educational Resources Intern**  
The intern will develop educational programming skills through the development of age-appropriate narratives and resources related to Dr. Elizabeth S. Wing’s research related to animal domestication, human impact on environments and culture contact. The intern will report to the Program Director/Associate Scientist for the Florida Museum of Natural History’s Center for Science Learning (CSL).

**Summary of Responsibilities and Duties**  
The Educational Resources Intern is responsible for developing activities for the Florida Museum of Natural History’s (FLMNH) *Discovery Zone* and the development of narratives and resources for upper elementary and middle school youth for the website and to be utilized by existing public programming provided by the museum.

**Discovery Zone**  
The *Discovery Zone* is a new 2,000-square-foot permanent exhibit at the Florida Museum designed for children ages 8 and under, and the adults accompanying them. Scheduled to open mid-2017, the exhibit includes engaging, developmentally-appropriate components designed to encourage explorations of our cultural heritage, uses of our state’s natural resources and environments by people in the past and today, and how we learn about the past. Age-appropriate narratives and resources related to Dr. Wing’s research will provide opportunities for children to investigate topics she explored including domestication, human impact on environments, and culture contact.

The *Discovery Zone* also will have a variety of technologies that can effectively support young children’s learning and enhance their understanding. For example, document cameras and digital microscopes magnify three-dimensional objects, allowing more detailed investigation of small objects and collaborative viewing. Using this technology, children can view objects from multiple perspectives, angles and magnifications. In addition it encourages engagement, active learning, creativity, and social interaction. Children in the Discovery Room might use the document camera and digital microscope to compare and contrast different objects related to Dr. Wing’s research and learn more about the processes she engaged in through her studies.

**Upper Elementary and Middle School Youth**  
Narratives and resources from Dr. Wing’s work will engage youth in grades 4-8 in exploring the roles and contributions of women in science, the history of science, research processes, and the development of the science of environmental archaeology. They will help foster an understanding of historical inquiry, analysis, and knowledge. And they will help youth learn about the use of evidence in reconstructing the past, similarities and differences among people of today and the past, chronology of events, and the interdependent relationship of humans to their environment.
The narratives and resources will be incorporated into our Scout badge programs, Ask a Scientist public program, Discovery Carts, and school outreach. Discovery Kits will contain objects and activities that engage youth in guided exploration of different topics and the steps in scientific discovery.

**Qualifications**
The ideal candidate will be currently enrolled in a graduate degree program in College of Education. Coursework and/or experience relating to lesson planning, public programming, or science education is strongly preferred. Excellent communication and organizational skills required. The candidate must be able to work independently. The candidate must be able to lift heavy boxes and objects (up to 40 lbs). Experience handling special collections or museum objects preferred.

**POSITION:** Metadata Intern  
**REPORTS TO:** Metadata Librarian

**SUMMARY**
The Elizabeth S. Wing Papers Metadata Intern provides and/or edits descriptive metadata for digitized documents, research data, correspondence, images, and/or recordings, depending on the Intern’s background and interests. This internship will be conducted during three semesters, totaling 160 hours.

The internship begins with training sessions on resource description, indexing and abstracting practice, the SobekCM content management system, expectations, local policies, and available cataloging aids. In consultation with the Metadata Librarian, the Intern will then develop a project plan to provide comprehensive descriptive metadata for selected materials.

The Intern will gain experience cataloging library and digital collections resources, using common standards (RDA, DACS, DCRM, MODS, thesauri) and tools (Cataloger’s Desktop, SobekCM) employed in the library sector. The Intern will develop skills applying the principles of information organization to bolster access to library and digital collections resources. This internship is an ideal complement to information organization and/or cataloging coursework undertaken as part of Library and Information Science education. This internship can be taken as a practicum or fieldwork experience; the Metadata Librarian is willing to serve as a practicum or fieldwork supervisor.

**RESPONSIBILITIES**
- Create and/or enhance descriptive metadata for archival resources
- Provide in-depth indexing and contribute to ongoing thesaurus development

**QUALIFICATIONS [examples, tailored to collection]**
- Completion of, or current enrollment in, graduate coursework on information organization
- Educational background in biology and/or archaeology preferred
- Excellent verbal and written communication skills
Experience
Chair of Marston Science Library & Agricultural Sciences Librarian, Marston Science Library, George A. Smathers Libraries, University of Florida  
2014-present
Provides leadership for all aspects of the Marston Science Library services and operations including reference, instruction, circulation and outreach services; collection development; organization, maintenance, and preservation of collections; facilities management, staff management and supervision; and development of digital initiatives.

Outreach Librarian for Agricultural Sciences, Marston Science Library, George A. Smathers Libraries, University of Florida  
2005-2014
Developed research, collection, and data services to 6 on-campus plant and animal science departments, 13 off-campus Research & Education Centers, 4 Affiliate Libraries, 67 County Extension offices, and distance education faculty, staff, and students. Evaluated annual IFAS faculty publication reporting to the USDA-NIFA. Consulted on publication and data issues at the individual, unit, and IFAS administrative level.

National Implementation Lead; Local Implementation Lead, VIVO: National Network of Scientists, University of Florida  
2009-2011
Funded with a $12.2M award from the National Institutes of Health to establish a national framework to support research and networking. Served as National Implementation Coordinator and National VIVO Speakers Bureau Lead (2009-2010), and UF Implementation Lead (2010-2011).

Collection & Research Services Librarian, Waidner-Spahr Library, Dickinson College  
2003 – 2005
Provided reference, collection, and instructional services to a number of academic departments. Provided integrated instruction to First-Year Seminars. Worked with Office of Global Education to develop embedded instructions to international students and on-demand research support to students studying abroad.

Education

Selected Publications, Presentations, Posters
Davis, V., Dinsmore, C., Royster, C., (2014). Shared Retention: Addressing library space needs while ensuring continued access to historically significant agricultural collections. Journal of Agricultural and Food Information. 16(1). Refereed article
http://ufdc.ufl.edu/IR00000956/00001

Research
Forging a Collaborative Structure for Sustaining Scholarly Access to the Baldwin Library, of Historical Children's Literature. Principal Investigator: Suzan Alteri. $4983. (2013-2014), Member

Professional Service
Journal of Agricultural & Food Information
2012-present Book & Internet Review Editor
Special Libraries Association (SLA), Food, Agriculture, & Nutrition Division (FAN), Member (2005-2013)
Division Past-Chair, 2012; Chair of Awards, Nominating, and Practices Committees
Division Chair, 2011, Division Chair-Elect, 2010
Executive Council, Member, 2009-2012
Program Planning Committee, Chair, 2011
United States Agricultural Information Network (USAIN), Institutional representative (2005-present)
2016 Conference Planning Chair, 2014-2016
President, elected, 2014-2015, President-Elect, elected, 2013-2014
Program Planning Co-Chair, 2012-2014
Director, elected, 2010-2012
Director, elected, 2010-2012

Awards
2009 Library Innovation Award (UF Libraries)

University of Florida Service (selected)
Faculty Senator, 2013-present
UF Sustainability Committee, PR & Marketing Sub-Committee, Member, 2006-2007
IFAS Publications Steering Committee, Member, 2005-2008
KITTY F. EMERY, Ph.D.: BIOGRAPHICAL SKETCH - 2016

Professional Preparation
Trent University, Peterborough, ON  Anthro & Biology Honors B.Sc.  1986
University of Toronto, Ontario  Anthropology  M.A.  1990
Royal Ontario Museum, Toronto, ON  Biodiversity Center Postdoc  98-99

Appointments: Academic:
2009-present: Associate Curator, 2001-2009 Assistant Curator, Environmental Archaeology, Florida Museum of Natural History and Affiliate Associate Professor, also affiliate of Anthropology/Latin American Studies/Tropical Conservation and Development/School of Natural Resource Sciences/Land Use and Environmental Conservation Institute/Biodiversity Institute, U of Florida
1997, 1998-2001: Assistant Professor, Archaeology: Anthropology, SUNY Potsdam, NY
1997-1998: Postdoctoral Fellow, Social Science & Humanities Research Council of Canada, held at the Biodiversity Center, Royal Ontario Museum
1996: Instructor, Archaeology: Dept. of Anthropology, Cornell University, Ithaca, NY
1988, 90, 93: Teaching Assistant: Anthropology: Cornell U; York U, Canada; U of Toronto, Canada

Appointments: Selected Research Projects:
Director: Proyecto Zooarqueologico del Area Maya – Regional studies in Maya animal use to reconstruct changing Maya relationships with animals and landscapes e.g. climate, human impact (since 2002)
Maya Ethnozoology Project – studies of modern Maya animal use and disposal e.g. hunting, medicinal use, discard practices (since 2005)
Co-Director: Motul de San Jose Archaeology and Environment Project – NSF funded environmental archaeology studies at a Late Classic Maya site, A. Foias Williams College co-director (since 1998)
Maya Turkey Distribution and Taxonomy – NSF funded aDNA/isotopic/morphometric study of earliest domestic turkeys in the Maya region, E. Thornton WSU co-director (2012-present)
Atitlan Ethno-Zoology Project – Animal remains from ritual caches in the Guatemalan highlands, L. Brown GWU co-director (2006-2010)

Supervisor of Zooarchaeological Research

Project Zooarchaeologist:
Belize River East Sites, Belize (2014-present) Director E. Harrison-Buck
La Venta, Oxtotitlan Mexico (2012-present) Directors: M. Pohl, C. vonNagy
Chiquiuitan Archaeological Project (2009-2010, with M. Kay), Director: M. Morgan
Proyecto Petén Noroccidente La Joyanca (2003-present) Director: C. Arnauld
Petexbatun Regional Archaeological Project, Guatemala (1991-1997), Director: A. Demarest
Five Publications most closely related to the proposed research (*=student co-authors)

Five Other Selected Publications

Recent Synergistic Activities
- External Grants PI/coPI: A Zooarchaeological Perspective on the Formation of Maya States. National Science Foundation DDIG-BCS 1433043; Classic Maya Political Dynamics at Motul de San Jose, Guatemala National Science Foundation Senior Archaeology Grant BCS 1250035; Re-examining the History of Turkey Husbandry in the Maya Lowlands. National Science Foundation Senior Archaeology Grant BCS 1216749; Zooarchaeological and Isotopic Perspectives on Ancient Maya Economy and Exchange National Science Foundation DDIG-BCS 0622805; Human Impact on Ancient Animals of the Maya World: Regional Maya Zooarchaeology Project National Science Foundation Senior Archaeology Grant BCS 0453868
- Digital Works: Digital Companion to the Archaeology of Mesoamerican Animals (Emery and Gotz) Open Context. DOI:10.6078/M7G44N65; Osteological Fish Atlas and Maya Animal Remains [digital image databases for zooarchaeological analysis, flmnh.ufl.edu/envarch]
- Education and Outreach: Environmental Archaeology Endowment for Education [student and public education, online through flmnh.ufl.edu and as Exhibit Events associated with the FLMNH (Ask a Scientist, Earth Day, First Colony) and elsewhere (Archaeologists for Autism)]
- Service to scientific community (past 5 yrs): Current: Elected Member, International Committee, International Congress of ArchaeoZoology (ICAZ); Member, Editorial Board Journal of Ethnobiology; Member, Editorial Board Environmental Archaeology; Memberm Board of Advisors, Digital Antiquity. Past: Elected Board Member, Society for Ethnobiology; Elected Member SAA Dienje Kenyon Award Committee (2007-2012)
Education:
University of Texas, Austin, Library and Information Science, MLIS, 1997
University of Florida, History, MA, 1994

Work Experience:
University of Florida, George A. Smathers Libraries, Gainesville, FL
Head of Digital Production Services and Curator for Digital Collections, Mar 2014–present
International Documents Librarian, July 2004 – Feb 2014

Harry Ransom Humanities Research Center, University of Texas, Austin, TX

Publications:
Books, contributed:


Articles, refereed:


Grants:
External:
Museum; lead a multi-institutional centennial celebration of the opening Panama Canal in 2014-2015 to promote public understanding of the achievement and the heritage resources available for scholarly, educational, and civic purposes; and initiate a national dialog about the potential for best practices in library-museum collaborations, strategic alliances, and partnerships. Proposal: <http://ufdc.ufl.edu/AA00009715>

- Principle Investigator, “Lincoln: The Constitution and the Civil War” a traveling exhibition and tour are funded by a major grant from the National Endowment for the Humanities (NEH) to the National Constitution Center. $2500 awarded 2010, exhibited Feb 10-Mar 7 2012.

**Internal:**
- Principle Investigator, An education in distance training: A pilot project for developing a distributed scanning model for government documents in Florida based on the DLOC model. Library Mini-grant program. $1471.32 awarded to fund a pilot for using webinar technology to teach document scanning.

**Activities at Professional Conferences/Meetings:**

**National:**


"The Ins and Outs of Digitizing a Center of Excellence Collection," Dinsmore, C. & Stephanie Braunstein, ASERL Webinar, May 20, 2014

**State:**

- Becoming a Center of Excellence at the University of Florida, presentation at the Alabama Library Association annual meeting, Birmingham, AL, Apr 2012.

**Membership and Service in the Profession:**

American Library Association (ALA), member, 2004-present

- ALA Membership Committee, 2005-06

International Documents Task Force, GODORT, ALA, member, Coordinator (2011-12), Coordinator Elect (2010-11), 2004-present
EDUCATION

M.A. (Art and the Book)
Corcoran College of Art and Design, 2013

M.S. (Library and Information Science)
Catholic University of America, 2009

B.A. (Classical Languages & Literatures)
Minor: Religious Studies
University of Maryland, 2006

B.A. (History)
University Honors Citation
University of Maryland, 2005

Certifications
Certificate of Proficiency in the History of Manuscripts
Rare Book School, 2008 – 2015
Certificate in XML and RDF-based Systems
Library Juice Academy, 2015 – 2016
Certified Data Carpentry Instructor
Software Carpentry Foundation, 2016

PROFESSIONAL POSITIONS

University of Florida, George A. Smathers Libraries
Metadata Librarian, 2015 –
Rank: Associate University Librarian, tenure-track

University of Miami Libraries
Special Collections Cataloging & Metadata Librarian, 2013 – 2015
Rank: Librarian Assistant Professor, academic-track

Free Library of Philadelphia, Rare Book Department
Cataloging Consultant, 2011 – 2013

The Barnes Foundation
Assistant Archivist and Librarian, 2010 – 2011

Goucher College Library
Special Collections Cataloger, 2009 – 2010

The Carmelitana Collection
Catalog Librarian, 2008 – 2009
SELECTED PUBLICATIONS

Allison Jai O’Dell, *Subject Description and Discovery: Access to Archives and Special Collections on the Semantic Web* [working title] (Santa Barbara: Libraries Unlimited, expected 2017). [under contract]

Allison Jai O’Dell, “Defining Usefulness and Facilitating Access Based on Research Applications,” *Classification and Indexing Section IFLA Satellite Conference*, “Subject Access: Unlimited Opportunities,” 11-12 August 2016, Ohio State Library, Columbus, Ohio. [refereed proposal accepted]


Objective
Pursuing opportunity which will allow me to grow professionally, while effectively utilizing my versatile skills to continue providing needed services to the UF Library and its patrons.

Experience
George A. Smathers Libraries at University of Florida   Gainesville, FL
Library Associate 2 - Cataloging and Discovery Services Dept.   Sept. 97-
present

- Original and shared RDA cataloging of Monographs (Bibco), videos, and online/electronic materials, including assigning Library of Congress subject headings and class numbers.
- Metadata entry for Digital Library projects.
- Creating and controlling authority records
- ECIP (Electronic Cataloging in Publication) cataloging of upcoming University Press of Florida books, for submission to the Library of Congress catalog.
- Cataloging of materials in all subject areas, including Humanities, Sciences, Latin American, Asian, African and Judaic Studies, and Literature.
- Cataloging Department Web Administrator/Editor for past 12 years.
- Proven expertise in library computer technology (served as Systems Liaison Coordinator for Cataloging).
- Science Library Reference Desk service.
- Serve on various library and university committees.

Northwood University   West Palm Beach, FL
Food Service Director   Jul. 85 – Jul. 92

- Coordinated and managed all aspects of college food service operation.
- Planned menus, purchased and prepared food for 450 students.
- Supervised 8 full-time staff and 10 student workers.

Education
University of Florida   Gainesville, FL
Master of Science   May, 2010
Major: Food Science and Human Nutrition
Minor: Animal Science

University of Florida   Gainesville, FL
Bachelor of Science   May, 1997
Major: Food Science and Human Nutrition
Minor: Business Administration

**Skills**

- Very skilled in original cataloging using RDA, NACO Authorities and the Library of Congress Subject Headings/Classification Schedule.
- Original cataloging of monographs, videos (physical and streaming), electronic materials, online items, maps, etc.
- Excellent ability in cataloging to BIBCO and CONSER standards.
- Ability to catalog in many different foreign languages, especially in Spanish, Portuguese, German, and French.
- Excellent knowledge of Spanish grammar and vocabulary (three years of Spanish language education).
- Proficient in creating detailed instructions for procedures and relaying via email, in person, or publishing on the web.
- Expert knowledge in use of OCLC, Aleph, and the Internet.
- Knowledge of science, social science and geography subject terminology
- Ability to use MarcEdit for bulk record creation and loading into Connexion/Aleph.
- Ability to search for and do global changes to records in Aleph.
- Proficient in computer technology and the Internet.
- Excellent troubleshooting / problem-solving skills.
- Flexible, cooperative, reliable and hard-working team player.
- Supervisory skills.
- Ability to work on several projects simultaneously, self-manage time effectively and meet deadlines on schedule.
- Proficient in all versions of Windows and Microsoft Office applications.
- Knowledge of metadata and Bibframe.
- Attend frequent training sessions online and in person to enhance my cataloging skills and in preparation for the new ILS.
- Very strong communication skills, verbal and written.
- Fast and accurate typing abilities.
JAMES BARNETT’S C.V.

EMPLOYMENT HISTORY

Conservation Projects Specialist, Conservation and Preservation Unit, George A. Smathers Libraries, University of Florida
Gainesville, FL
9/18/2015 — Present
- Liaisons with Digital Production Services (DPS) to, properly and efficiently, deliver material to be digitized
- Give advice to the staff of on handling materials before, during, and after scanning to ensure the best possible digital image with the least amount of physical impact on the items being digitized
- Assess incoming and outgoing archival library and museum material that are being digitized
- Repair and/or support materials being digitized as the object’s condition and scanning benchmarks require. This includes: building or modifying boxes to transport and protect material, ironing and flattening out material, disbinding books, and repairing damaged and torn pages
- Working with Collection Managers to mitigate damage to material that might be result from the digitizing process and getting material in the optimal condition to return to the collection

Imaging Coordinator, Digital Production Services, George A. Smathers Libraries, University of Florida
Gainesville, FL
10/26/2012 — 9/17/2015
- Trained staff and OPS employees on scanning equipment and software for scanning and post capture processing
- Set up, managed, and troubleshoot work flow for OPS workers
- Validated images for artifactual fidelity and optimized, cropped, and color corrected scanned images using Adobe Photoshop software
- Utilized advanced knowledge and implementation of tools in Adobe Photoshop including actions and photo touch-ups
- Worked extensively with DLC Quality Control to ensure benchmarks have been met and that complete file packages are produced
- Utilized the digital assets management system, SobekCM, for all aspects of the production workflow including: creating new bibliographic records from OCLC and Aleph, metadata enrichment, item check-in and tracking, derivative image creation, quality control, load verification, archiving, and distribution to additional venues
- Managed Imaging work flow on grant funded, deadline driven projects
- Updated the Digital Production Services website

Imaging Technician, Digital Production Services, George A. Smathers Libraries, University of Florida
Gainesville, FL
10/1/2008 — 10/26/2012
- Utilized highly specialized equipment including flatbed scanners, slide scanners, CopiBook scanners, and a Better Light Super Bk-HS large format scanner for the imaging of rare and unique library, archival, and museum materials
- Calibrated the above equipment using standardized Kodak greyscale and color targets to create ICC profiles
- Participated in all production aspects for specialized grants including the Baldwin Library of Historical Children’s Literature, Aerial Photography: Florida, Efrain Barradas Mexican and Cuban Film Poster Collection, and Saving St. Augustine’s Architectural Treasures
- Trained and supported new student workers in learning and conducting various activities associated with digitization
- Liaised and coordinated with various library departments and locations, including Special and Area Studies Collections and Conservation, to safely transport and return materials for digitization
EDUCATION

BFA in Printmaking, University of Florida, 2011
Examples of Coursework that Inform processing archival documents
- Worked in many types of printmaking including lithography, intaglio, and silkscreen printing
- Bookmaking

PROJECTS

Historical and Visual Coordinator for the Virtual Library Tour mini grant project
https://sites.google.com/site/ufvltpresents/home
- Selected digital resources in the University of Florida Digital Collections (UFDC) to create a web/mobile historic tour of the University of Florida campus
- Researched the history of locations on the tour, selected already digitized materials, and conducted archival research to select and digitize additional visual resources
- Consulted with University Archivist and Head of Manuscripts and Archives about campus history and anecdotes appropriate for the tour
- Collaborated with librarians and library staff across campus
- Evaluated and recommended software options for creating virtual tours including Layar, Junaio, Wikitude, and Historypin
- Designed and developed web-based and print materials for the tour

Historypin project
- Geo-located and “pin” historic photographs of the University of Florida using Historypin, a website that is in partnership with Google and Google Maps, to display mapped rephotography with historical and contemporary imagery

UF History Hunt
http://ufhistoryhunt.tumblr.com/
- Created and maintain the UFhistoryhunt Tumblr blog to expand the exposure of the UFDC, VLT, and Historypin content
- Used Google Earth to create KML files that feature geo-located image overlays of historic maps and aerial photographs from UFDC. These file are downloadable here: http://ufhistoryhunt.tumblr.com/kmls

PUBLICATIONS

Saving St. Augustine’s Treasures blog contribution
- Contributed to the Saving St. Augustine’s Treasures blog, a collaborative project between Special Collections, Preservation, and the Digital Library Center to promote the work for the grant, the digitized materials from the grant, and document the steps and process to digitize archival objects. Contributed segment on the large format digital capturing of the archival materials

Archive Journal article
http://www.archivejournal.net/issue/2/archives-remixed/james-barnett-commentary/
- An article on my work on the Saving America’s Treasures project.
June 12, 2016

Current Appointments

Collections Coordinator, Marston Science Library, University of Florida
March, 2007 – present
Responsible for the overall management of collections and collection budgets in the Marston Science Library.

Biological/Life Sciences Coordinator, Marston Science Library, University of Florida
May, 2004 – present
Responsible for the overall development, management and coordination of selection for the Biological Sciences Collection supporting the university’s programs in Biology, Biotechnology, Botany, Genetics, and Zoology. Provides specialized reference and instruction services.

University of Florida Ranks and Promotions:

Associate University Librarian (tenured), 2008 -
Assistant University Librarian, 2001-2008
Instructor Librarian, 1999-2001

Education:

1998  Master of Arts  University of South Florida
      Library and Information Science

1992  Bachelor of Science  University of Tampa
      Biology and Marine Science

Selected Publications:


**Selected Presentations:**


“Positively Perplexing E-books: Digital Natives’ Perceptions of Electronic Information Resources” with Amy Buhler at the Charleston Conference, Charleston, SC, November 8, 2012,


**Current Grants:**

Institute of Museum and Library Services (IMLS) National Leadership Research grant for “Researching Students’ Information Choices: Determining Identity and Judging Credibility in Digital Spaces”. Role: Co-PI. $491,882 awarded on 12/1/15 for 3 years.

**Selected Service:**

American Libraries Association
- Member, 2012-
- Association for Library Collections & Technical Services, member 2012-

University of Florida
- UF Sustainability Committee, 2011-present (Chair 2013-2015)
- UF Campus Master Plan Steering Committee, 2014-2015

Smathers Libraries
- Electronic Resources Management Advisory Group, 2013-present
- Tenure and Promotion Committee, 2011-2014
BETTY A. DUNCKEL
CURRICULUM VITAE

Florida Museum of Natural History
University of Florida, PO Box 112710
Gainesville, Florida 32611-2710

Florida Museum of Natural History
University of Florida, Gainesville, Florida; Ph.D., 1996; Instruction and Curriculum – Science Education and Informal Education.
University of New Hampshire, Durham, New Hampshire; M.A.T., 1973; Science Education.
Cornell University, Ithaca, New York; B.S., 1972; Biology, Food Science.

Professional Experience

Professional Societies
American Association of Museums; Committee for Audience Research and Evaluation, AAM; Florida Association of Museums; Museum Education Committee, AAM; National Science Teachers Association; Southeastern Museums Conference; Visitor Studies Association.

External Grants (large in scope/funding level since 2005)

(06/13/2016)


Marvelous Explorations through Science and Stories: MESS, Alachua County Board of County Commissioners, Community Agency Partnership Program (CAPP), $57,499, 2006-07.

An Innovative Science-based Head Start Literacy Curriculum: Expansion and Evaluation of Marvelous Explorations through Science and Stories, Administration for Children, Youth, and Families, Department of Health and Human Services, Year 1 Implementation, $397,143, 2005-06.

Marvelous Explorations through Science and Stories: MESS, Thomas H. Maren Foundation, $33,000, 2005-06.

Exhibitions and Public Outreach at the Florida Museum of Natural History, General Program Support Grant, Florida Department of State, $158,560, 2005-06.

Educating the Public about Florida’s Wildflowers and Butterflies, Florida Wildflower Foundation, Inc., $94,409, 2005-06.


**Publications (since 2007)**


Fletcher Durant  
Curriculum Vita

University of Florida  
George A. Smathers Libraries  
Interim Library Facility  
4040 NE 49th Avenue  
Gainesville, FL 32609  
Tel: 352-273-2802  
Fax: 352-392-6597  
fdurant@ufl.edu

EDUCATION

2008    MSIS, School of Information, University of Texas at Austin
2008    Certificate of Advanced Study in the Preservation and Conservation of Library and  
        Archival Materials, Kilgarlin Center for the Preservation of the Cultural Record,  
        University of Texas at Austin
2003    BA, History, Wesleyan University

WORK EXPERIENCE

Preservation Librarian, Preservation Department, George A. Smathers Libraries, University of  
Florida, Sept. 2015-Present. Visiting Assistant Librarian.

Preservation Archivist, Barbara Goldsmith Preservation Department, Bobst Library, New York  
University, June 2013-August 2015.

Acting Media Preservation Head, Barbara Goldsmith Preservation Department, Bobst Library,  

Assistant Conservator, Specialist II, Barbara Goldsmith Preservation Laboratory, New York  
Public Library, June 2008-June 2013.

MEMBERSHIP AND ACTIVITIES IN THE PROFESSION

Current:  
American Institute for the Conservation of Historic and Artistic Work (AIC), Associate (2005-  
2011), Professional Associate (2011-present)  
        Book and Paper Group (BPG), Assistant Program Chair (2013-2014), Program Chair  
        (2014-2015)
Electronic Media Group (EMG), Assistant Program Chair (2008-2009), Program Chair (2009-2010), TechFocus Planning Committee (2009-2010), Publications Committee (2010-2012)

Society of American Archivists (SAA), Member (2003-2005, 2012-present)
  Preservation Section, Member (2012-present)
  Preservation Publication Award Committee (2015-present)
  College and University Archives Section. Member (2012-present)
  Security Roundtable, Member (2012-present)

American Library Association (ALA), Member (2015-present)
  Association of College and Research Libraries (ACRL), Member (2015-present)
  Association for Library Collections and Technical Services (ALCTS) (2015-present)

Completed:

National Endowment for the Humanities Sustaining Cultural Heritage Collections grant review panelist (2015)

Mid-Atlantic Regional Archives Conference (MARAC), Member (2012-2015)

AWARDS AND HONORS

2008  Foundation of the American Institute for Conservation George Stout Grant
2006  Houston Endowment Graduate Fellowship
2005  Houston Endowment Graduate Fellowship
Sarah Elizabeth Fazenbaker  
*Curriculum Vitae (selected highlights)*

**Present Position**  
Web Services Manager & Web Developer, Florida Museum of Natural History (Oct. 2000 - present)  
Dickinson Hall, University of Florida  
Museum Road & Newell Drive  
Gainesville, FL 32611, (352) 273-1913, sfaze@flmnh.ufl.edu

**Relevant Employment History**  
Education Outreach Assistant - Web & Print Design  

Marketing & Public Relations Assistant  

**Education**  
Information Technology Track – Web Design & Programming

B.S., Public Relations with Honors  
A.A., Journalism & Mass Communications  
Minors: Art History, Business Administration

**Papers Presented**  

**Conference Presentations**  
“*The Web is Made of Links – Don’t break them*”, HigherEdWeb Southeast Regional Conference, April 25, 2013, Gainesville, FL


“Building and Maintaining an Effective Museum Web Site”, Florida Associations of Museums Conference, Sept. 12, 2002, Orlando Florida

**Committees Served**  
Natural History Department Website Committee, Oct. 2014 – present


Museum Studies M.S. Graduate Student Committee (Reader), Christopher Hubbard, College of Art & Art History

ButterflyFest Operations Committee – Marketing Subcommittee, Jan. 2007 – Present


FLMNH Website Advisory Committee (Chair), Nov. 2002 – Dec. 2003

Awards
Florida Public Relations Association, Jacksonville Chapter - May 2003, “A T. rex Named SUE” website

Florida Public Relations Association, Gainesville Chapter - April 2003, Judges Award, “A T. rex Named SUE” website

Community Service

Judge, Chapter Website Competition, Florida Public Relations Association, July 2009

Web Sites Managed
UF Biodiversity Institute (launched March 2015), http://biodiversity.flmnh.ufl.edu

  • Wordpress Multisite
  • 89 hosted blog sites

Florida Museum of Natural History (Current design launched Sept. 2012), http://www.flmnh.ufl.edu
  • 12 Exhibits & Public Programs topic websites
  • 21 Natural History Collections and Lab websites
  • 48 additional research websites

FLMNH Intranet - Private; Employee Access Only (Current design launched Feb. 2004), http://intranet.flmnh.ufl.edu
EDUCATION


Ph.D. in Cultural Anthropology, University of Illinois at Urbana-Champaign.
Urbana, IL.


Bachelor of Arts in Cinema and Photography, Southern Illinois University at Carbondale.
Carbondale, IL.

LIBRARY & ARCHIVE EXPERIENCE

Current Position
Assistant University Librarian, Anthropology Subject Specialist. Smathers Libraries, University of Florida, Gainesville, FL. (352) 273-2621. PO Box 117022 Gainesville, FL 32611-7022.
February 2012-Present.

Recent Past
March 2009-October 2010.

Internships

LIBRARY PROJECTS & GRANTS


* Primary Investigator (PI) for Smathers Library Mini Grant, “Digitizing History: Archiving the Photographs of the First Transcontinental Railroad.” The project will create an interactive website archiving digitally scanned photographs and negatives of images of the construction of the Transcontinental Railroad from 1860-1865. $4,800.00 - June 2013-June 2014.

* Researcher/documentarian on NEH grant, “Archive of Haitian Religion and Culture.” UF Professor Ben Hebblethwaite, department of cultures and languages, PI. $250,000.00 - Fall 2012-ongoing.
SELECTED PUBLICATIONS


Book Reviews


SELECTED CONFERENCE PAPERS, INVITED LECTURES, & PRESENTATIONS


Elizabeth Haven Hawley, Ph.D.
Chair, Special and Area Studies Collections Department
George A. Smathers Libraries, University of Florida
P.O. Box 117005, Gainesville, FL 32611-7005 • 352-273-2765 • ehh@ufl.edu

Education

Georgia Institute of Technology (Georgia Tech), Atlanta, GA
Ph.D., History and Sociology of Technology and Science, 2005
M.S., History of Technology, 2001
Foreign Language: French (graduate reading competency exam)

Baylor University, Waco, TX
B.A., cum laude, 1987; International Division Certificate, Seinan Gakuin University, Fukuoka, Japan, 1986-1987 (exchange program with Baylor University)

Foreign Language: French (graduate reading competency exam)

Major: Journalism and History; Minor: Russian and Japanese Studies; Foreign Languages:
Russian (intermediate) and Japanese (beginning)

Professional Positions

University of Florida (UF), Gainesville, FL
George A. Smathers Libraries, Special and Area Studies Collections Department: Chair and Associate University Librarian, 2014-present

University of Minnesota-Twin Cities (UMN-TC), Minneapolis, MN
College of Science and Engineering, History of Science and Technology Program: Visiting Assistant Professor, 2013-2014
College of Liberal Arts, Immigration History Research Center: Program Director, 2007-2013

The Breman Jewish Heritage and Holocaust Museum, Atlanta, GA
Director of Marketing/Media Relations, 2004-2007

Georgia Institute of Technology (Georgia Tech), Atlanta, GA
School of History, Technology, and Society: Instructor, spring 2004 and spring 2007; Graduate Teaching/Research Assistant, 1994-1999

U.S. National Park Service, Historic American Engineering Record
Historian, 1998; five technical reports filed with American Memory Project, Library of Congress

Selected Grants & Funding

Books about Florida and the Caribbean: from the University Press of Florida to the World, National Endowment for the Humanities/Andrew W. Mellon Foundation, NEH Open Book Program Grant, $79,000, 2016, Project Co-Director

Digital Humanities (DH) Collaboration Bootcamp, Creative Catalyst Grant, UF, $10,000, 2016, Investigator

Repositioning Florida’s Judaic Library: Increasing Access to Humanities Resources from Florida, Latin America, and the Caribbean Communities, National Endowment for the Humanities Challenge Grant, $500,000, 2014, Investigator
Digitizing Estonian Archives, IHRC-National Archives of Estonia partnership sponsored by Baltic Heritage Network through Estonian Ministry of Education and Research, approx. $25,000, 2009-2013, Project Director.

Latvian Diaspora Archives and Material Culture Conference, American Latvian Association, approx. $10,000, with conference coordinator supplied by partner, 2011-2012, Project Director.


Ukrainian American Health, Mortality and Demography Project, Minnesota Population Center Seed Grant, UMN-TC, $8,312, 2008, Co-PI/Project Supervisor.

Selected Awards:


2012 Outstanding Service Award, College of Liberal Arts, UMN-TC, 2013.

Short-Term (Six-Week) Professional Development Leave Award, Professional & Academic Staff Professional Development Program, College of Liberal Arts, UMN-TC, 2009.

Publications (selected):


Invited National/International Presentations (selected):
“Absence Makes the Heart Grow Fonder: The Role of Distance in Diaspora Heritage Preservation,” Memory Institutions and Diasporas: Roles and Responsibilities, Estonian Studies Center/VEMU [Museum of Estonians Abroad], Tartu College, Toronto, Canada, September 2015.

“Eight Points on the Meaning of Objects in Special Collections,” Acknowledging the Past, Forging the Future: National Colloquium on Library Special Collections, Case Western Reserve University, October 2014.

John R. Nemmers - Curriculum Vitae (June 2016)
Associate Chair and Head of Collection Services, Department of Special & Area Studies Collections
200G Smathers Library
University of Florida George A. Smathers Libraries
Gainesville, FL 32611-7005
jnemmers@ufl.edu
Telephone: 352-273-2766
ORCID # 0000-0003-0829-5280

EMPLOYMENT
2014 - Present  Associate Chair and Head of Collection Services, University of Florida George A. Smathers Libraries, Department of Special & Area Studies Collections
2003 - 2014  Descriptive & Technical Services Archivist, UF Smathers Libraries
1998 - 2003  Project Archivist, Claude Pepper Library, Florida State University

EDUCATION
Florida State University  Library & Information Studies  Specialist, Education  1998
Florida State University  Library Studies  Master of Science  1998
Florida State University  History  Bachelor of Arts  1996

SELECTED PUBLICATIONS

SELECTED LECTURES, SPEECHES, PRESENTATIONS, WORKSHOPS, ETC.
• “Utilizing GIS to Explore Historic Areas and Architecture”. Presented at the Association of Architecture School Librarians annual conference, April 2014.

"Managing Archival Collections Without an Archivist on Staff." Florida Association of Museums workshop, July 2010.


SELECTED GRANTS

- 2010. “Saving Carrère and Hastings’ St. Augustine Architectural Treasures.” National Endowment for the Humanities/National Park Service Save America’s Treasures Program. To conserve and digitize historic architecture drawings of the Hotel Ponce de Leon in St. Augustine. Funding dates: 2010- 2012. Role: Project Director for UF. [Note: This project is a collaboration between UF and Flagler College, with Flagler College serving as lead.]

SELECTED EXHIBITIONS


SELECTED PROFESSIONAL ACTIVITIES

- Society of Florida Archivists, 1999- (President, 2009-2010; Vice President, 2007-2009; Director, 2006-2007)
- Society of American Archivists, 1998-Present (EAD Roundtable Chair, 2010-2011)
- Florida Statewide Digital Action Plan Committee, Division of Library and Information Services, 2013-Present
- Grant reviewer, National Historical Publications and Records Commission, 2009-2011
- Matheson Museum (Alachua County Historic Trust) Board of Directors, 2009-2012

SELECTED HONORS AND AWARDS

- Distinguished Service Award, University of Florida School of Architecture, 2015.
- Award of Excellence, Society of Florida Archivists, 2011.
Jane Pen
Digital Services, George A. Smathers Libraries, University of Florida, Gainesville, FL 32611 352-273-2912 jpen@uflib.ufl.edu

Experience

2004-present: Metadata & Quality Control Coordinator
Digital Services, Smathers Libraries, University of Florida, Gainesville, Florida
Oversee the Metadata & Quality Control Unit to ensure the quality, consistency, and completeness of digital products, including textual, visual, and metadata contents. Supervise and train QC personnel performing quality control functions. Document quality control workflow and practice guidelines. Help streamline processes to assure highest quality standard and rapid throughput of digitizing products, and assure they are readily available on University of Florida Digital Collections (http://ufdc.ufl.edu/).

2001-2004: Imaging Assistant
Digital Services, Smathers Libraries, University of Florida, Gainesville, Florida
Assisted Imaging unit head by reviewing and ensuring the scanning process and image production meet the prescribed guidelines and acceptable quality.

1997-2001: Library Assistant
Alachua County Library District, Gainesville, Florida
Assisted patrons with information inquiry, resolved account problems and customer services functions using SIRSI system. Served as office equipment maintenance point person.

1996-1997: Library Reference Staff
Schaumburg High School, Schaumburg, Illinois
Assisted students/classes with reference inquiry/instruction, helped media center director with material processing, and assisted computer lab manager with equipment maintenance.

1988-1996: Cataloger
Performed duties to catalog K-12 materials in accordance with standard library cataloging practices and to assist school librarians and other customers with cataloging related questions. Reduced production cost of over $5,000 per budget year by streamlining workflow and organizing presentation facility.

1983-1986: Departmental Library
College of Nuclear Science, National Tsing Hua University, Hsinchu, Taiwan
Handled all aspects of library operations at the Library of Nuclear Engineering Department.

Education
Santa Fe College, Gainesville, Florida
AS in Computer Information Technology, 2002

Tamkang University, Taipei, Taiwan
BA in Educational Media and Library Science, 1983
Additional Information

- Principal Investigator 2007-2008, “Digital Collection in Asian Studies – A catalog of Chinese bronzes” was a mini grant project funded by UF Smathers Libraries. Link to the 24-volume set of “Qin ding Xi qing gu jian” is here: http://ufdc.ufl.edu/l/asia1/art
- UF Supervisory Challenge certificate 2006
- Staff Efforts recognized with certificate and cash bonus of US$1,000 in 2004 for Jane Pen’s contributions to the establishment of the Quality Control Unit that have improved the Libraries service to faculty, students, and all users of University of Florida digital collections
- MOUS certificate in Microsoft Excel 2000
Laura Perry
Digital Production Manager
George A. Smathers Libraries, Digital Production Services
Gainesville, FL 32611
(352)273-2911
LauraPerry@ufl.edu

Educational Experience:
Rochester Institute of Technology, Rochester, N.Y.
Bachelor of Science, Graphic Media: 2007

Professional Experience:
Digital Production Manager, University of Florida, Gainesville, F.L.
• Communicates with Head of Digital Production Services on overall project goals and daily operations (hardware/software, scheduling, statistics, etc.)
• Manages budgets by tracking and assuring available funding levels for continuous operation, including multiple grant funded projects
• Coordinates with the IR manager for successful integration of externally digitized content
• Advises on technical aspects and provides budget estimates for proposed digitization projects, including grant funded work
• Prioritizes and assigns projects to 8 direct reports and additional student workers

Digital Imaging Supervisor, EBSCO Information Services, Ipswich, M.A.
• Managed employee relations, hired, coached, conducted appraisals, set goals, etc.
• Reviewed metrics reports to ensure team was achieving or exceeding overall and individual goals
• Monitored capacity of team and made staffing recommendations based on business needs
• Enhanced workflows which saved over 600 labor hours annually

Production Manager, Kirtas Technologies Inc., Victor, N.Y.
• Oversaw digitization process to create an efficient workflow and production schedule
• Acted as a liaison among various departments (Sales, finance, and customers)
• Managed adherence to procedures to ensure quality standards met or exceeded goals

Imaging Specialist & Vendor Manager, Kirtas Technologies Inc., Victor, N.Y.
• Prepared, created, padded and optimized PDF’s for print
• Planned and designed book covers for content collections printed materials
• Provided training and guidance for teams of overseas vendors
• Distributed various projects to multiple teams to ensure project deadlines were met
• Provided technical assistance via phone and email

Selected Grants:


Newspaper Project, UF in partnership with the University of Puerto Rico-Rio Piedras to select, digitize and make available to the Library of Congress 110,000 newspaper pages through the National Digital Newspaper Project (NDNP). Approximately half of the pages will originate from historic Florida papers (1836-1922) and the remaining half will come from newspapers published in Puerto Rico (1836-1922).

Project Team Member, “Increasing Accessibility to Rare Florida Agricultural Publications – Phase II” Amount awarded: $5,431. Funding agency: US Agricultural Information Network – Project Ceres. The goal of the project is to increase access to rare Florida agricultural publications by digitizing 57 print serials (1000+items). Core historic serials were identified for digitization based on limited availability and high preservation ranking.

Internally funded: Principle Investigator, “Developing a Digital Afro-Panamanian Collection.” Amount awarded: $2715. Smathers Libraries Mini-Grant. The purpose of this project was to digitize 1200 negatives provided by Peter Szok, author of *Wolf Tracks: Popular Art and Re-Africanization in Twentieth-Century Panama*. The focus of this collection was the popular art that was displayed on the “red devil” buses in Panama. The Panamanian transportation division later decommissioned these buses for being unsafe, loud, and unsightly.
Education

**Florida State University**
- Bachelors of Fine Arts, Photography; cum laude

**University of Florida**
- Master of Fine Arts, Photography

Experience

**Digital Production Services, University of Florida George A. Smathers Libraries**  
*Coordinator of Digital Preservation and Legacy Format Conversion* (2014-present)

- Digital conversion and preservation of legacy analog audio and visual media for the University of Florida Digital Collections.  
- Operation and management of optical character recognition for UFDC text search ability.  
- Preparation, transfer, and verification of completed UFDC production materials to the Florida Digital Archive for digital preservation.

**Digital Library Center, University of Florida George A. Smathers Libraries**  
*Operational Unit Head* (2011-2014)

- Responsible for creation and production of digitization projects for access and preservation.  
- Responsible for budget allocation and tracking of multiple grant fund lines and OPS budgets.  
- Administration of vendor contracts and budgets.  
- Coordination, supervision, and management of 7 FTE production staff, including bibliographic control, imaging, post-capture processing, quality control, structural metadata, OCR, and archiving.  
- Coordinated digitization projects with UF Libraries Special Collections, Map Library, other UF academic departments, and partner institutions and museums.  
- Specification, purchase, and implementation of digitization equipment and software according to industry best practices.  
- Responsible for development and monitoring of UFDC quality standards and adherence to industry best practices for digitization projects.

**Digital Library Center, University of Florida George A. Smathers Libraries**  
*Operations Manager* (2009-2011)

- Management of daily operations of Smathers Libraries Digital Library Center.  
- Coordination of 7 FTE staff in the production and tracking of digital projects.  
- Equipment management, including calibration, troubleshooting, maintenance, and upgrade.  
- Create, import, and edit, metadata for UFDC’s tracking database.  
- Processing, quality control, and ingest of materials into UF’s Digital Collection.
Digital Library Center, University of Florida George A. Smathers Libraries
Coordinator, Imaging Supervisor and Legacy Format Conversion (2005-2008)

- Supervision of 2 FTE and multiple OPS personnel in imaging and post-capture image processing.
- Hiring, scheduling, and training of OPS and FWS student assistants.
- Digital conversion of a variety of legacy audio and visual analog media.
- Programming and implementation of UFDC’s 3D rotational interface.

Digital Library Center, University of Florida George A. Smathers Libraries
Coordinator, Large Format Imaging (2002-2005)

- Coordination, management, and production of the large format imaging queue.
- Digitization of large format materials utilizing the Betterlight Super 8K-HS camera back.
- Post-capture processing of large format materials.
- Project coordinator on several large, grant funded projects for access and preservation; including From the Air aerial photographic indexes, Sanborn Fire Insurance maps, and Herbarium Type Specimens from the Florida Museum of Natural History.

University of Florida, Office of Academic Technology.
Photographer (2000-2002)

- Responsible for equipment specification, implementation, and operation of digital imaging services for OAT’s campus wide photographic service bureau.
- Photographic imaging of museum and library collections in a studio and on location.
- Photographic imaging with traditional emulsion based photographic printing and processing.
- E-6 processing and maintenance, and other technical photographic processes.

University of Florida, Office of Academic Technology, Center for Instructional Technology and Training.
Training Specialist (1999-2000)

- Conducted training programs and seminars of software programs to UF faculty and staff.
- Development of graphic software training programs including Digital Media, Web Site Development, Photoshop, Web Graphics, Digital Video, Acrobat, and The Effective Use of Laptops.
- Development and instruction of the Instructional Computing Activities Training Program.

University of Florida, Department of Art and Art History.
Adjunct Assistant Professor (1999)

- Curriculum development, instruction, and evaluation of the undergraduate digital arts class Computer Art: Montage.
LAURIE N. TAYLOR  
Digital Scholarship Librarian, Scholarly Resources & Services  
George A. Smathers Libraries, University of Florida

**ADDRESS:** George A. Smathers Libraries  
P.O. Box 117000  
University of Florida  
Gainesville, FL 32611-7000

**TEL:** 352.273.2902  
**EMAIL:** Laurien@ufl.edu

**EDUCATION:**  
Ph.D. 2006 University of Florida, English/Digital Humanities

**RECENT POSITIONS HELD**

- **2015 –** Affiliate Faculty, Center for Latin American Studies, University of Florida  
- **2014 –** Digital Scholarship Librarian, Scholarly Resources & Services, George A. Smathers Libraries, University of Florida  
- **2011 - 2013** Digital Humanities Librarian, Scholarly Resources & Research Services (Digital Library Center, 2011-2012), George A. Smathers Libraries, University of Florida  
- **2008 – 2011** Interim Director, Digital Library Center, George A. Smathers Libraries, University of Florida  
- **2007 – 2008** Digital Projects Librarian, Digital Library Center, George A. Smathers Libraries, University of Florida

**PROFESSIONAL AFFILIATIONS**

- Digital Scholarship Director, Digital Library of the Caribbean (dLOC, www.dLOC.com)  
- Member, Modern Language Association

**RECENT AWARDS, FELLOWSHIPS, AND GRANTS**

- ‘Librarian on a Boat’ or Digital Scholarship, Caribbean Studies, and dLOC (UF; 2016)  
- Books about Florida & the Caribbean: from The Florida Press (Mellon; 2015)  
- MassMine: Collecting & Archiving Big Data for Humanities Researchers (NEH; 2015)  
- “Developing Librarian” Digital Humanities Pilot Training Project (UF; 2014)  
- Florida and Puerto Rico Newspaper Project (NEH; 2013, 2015)  
- Archive of Haitian Religion and Culture (National Endowment for the Humanities; 2012)  
- Digital Humanities Collaboration (UF Faculty Enhancement Opportunity Grant; 2012)  
- Association of Research Libraries (ARL) Position Description Bank (ARL; 2012)

**PUBLICATIONS**

**Selected Refereed Publications**


SELECTED PRESENTATIONS


• “Why there is No Such Thing as a Dead Archive.” Invited speaker for the Munroe Center for Social Inquiry Speaker Series, Pitzer College, Claremont, CA: Nov. 17, 2015.


EMILIO MIGUEL BRUNA

Department of Wildlife Ecology & Conservation
University of Florida
PO Box 110430
Gainesville, FL 32611-0430
Phone: (352) 846-0634
Fax: (352) 392-6984
E-mail: embruna@ufl.edu
www.BrunaLab.org

a. Professional Preparation

University of California, San Diego, B.S. Ecology, Behavior, & Evolution, 1994
University of California, San Diego, M.S. Biology, 1995
University of California, Davis, Ph.D. Population Biology, 2001

b. Appointments

2013-Present Professor and Distinguished Teaching Scholar
Department of Wildlife Ecology and Conservation &
Center for Latin American Studies, University of Florida

2012-Present Director, Florida-Brazil Linkage Institute
University of Florida

2007-Present Associate Professor, Department of Wildlife Ecology and Conservation &
Center for Latin American Studies, University of Florida

2002-2005 Assistant Professor, Department of Wildlife Ecology and Conservation &
Center for Latin American Studies, University of Florida

2001-2002 NSF Minority Postdoctoral Fellow, Biological Dynamics of Forest Fragments
Project, Instituto Nacional de Pesquisas da Amazônia

c. Products

Five Products Most Relevant to Proposed Research

identity on plant demography. Ecology 95:3237–3243. Data archived at Dryad:

Disentangling the drivers of reduced long-distance seed dispersal by birds in an experimentally

2011. The growth of an understory herb is chronically reduced in Amazonian forest fragments.
Biological Conservation 144: 830-835.


Bruna, E. M. 2003. Are plant populations in fragmented habitats recruitment limited? Tests with

Bruna Biosketch, p. 1
Five Additional Relevant Products


d. Five synergistic activities

1. I served as Subject Editor, Associate Editor, and am now Editor-in-Chief of Biotropica. In addition to my other responsibilities I have made >1100 decisions on manuscripts.

2. I am on the Board of Directors of the Dryad Digital Repository (http://datadryad.org/), whose mission is to provide the infrastructure for and promote the re-use of data underlying the scholarly literature. Several datasets from my NSF-funded research are archived and publicly available at Dryad; others are at Figshare and GitHub (for code);

3. I am the Director of the Florida-Brazil Linkage Institute (FBLI). The Florida Legislature created the International Linkage Institute Program in 1986 to help strengthen the state’s foreign relations and to promote business, educational, cultural and scientific exchange between Florida and select foreign countries and regions. The FBLI unites the resources of the 11 universities of the State University System and the 28 institutions of the Division of Florida Colleges with those of state government and business to forge a network of partnerships with Brazilian educational, government and private-sector institutions.

4. Since 2002 I have been a Core Faculty Member in the UF Tropical Conservation and Development Program, whose mission is to advance biodiversity conservation, sustainable resource management, and the welfare of rural people in the tropics through interdisciplinary graduate education, research, and collaborative learning. I am also Co-PI on an NSF-IGERT Grant whose goal is improving the training of UF graduate students with innovative, multidisciplinary training in biology, statistics, and mathematics.

5. Advising & teaching: In addition to advising students at UF (currently 2 Ph.D. students), I have coadvised graduate students in Brazil (N = 6) and also served as an external examiner for theses and member of thesis defense committees (N = 22 students from 5 Brazilian institutions). I have also presented >25 seminars and taught 6 courses at Brazilian universities.

Bruna Biosketch, p. 2
Curriculum Vitae
Sidney I. Dobrin

sdobrin@ufl.edu
www.clas.ufl.edu/users/sdobrin
352.294.2868

Education
University of South Florida
Field: Rhetoric and Composition, 19th Century American Literature

Old Dominion University Degree:
Field: Professional Writing, Medieval Literature

Virginia Wesleyan College
Major: English (Writing) Minor:
Fine Art

Professional Posts
Professor, University of Florida (2012 to present)
University of Florida Research Foundation Professor, University of Florida (2012-2015)
Associate Professor, University of Florida (2000 to present).
Assistant Professor, University of Florida (1997 to 2000).
Assistant Professor, University of Kansas (1995 to 1997).

Publications (selected):
Scholarly Monographs


Edited Collections


Ecocomposition: Theoretical and Pedagogical Approaches. (Co-edited with Christian Weisser) State


**Publications: Articles and Reviews**


**Presentations**

**Keynotes and Distinguished Lecture Series**


**Awards**

Biographical Sketch -- Robert P. Guralnick

A. Professional Preparation

U.C. Berkeley  Berkeley, CA  Psychology BA with high honors  1992
U.C. Berkeley  Berkeley, CA  Integrative Biology Doctor of Philosophy  1999
U.C. Berkeley  Berkeley, CA  Postdoctoral Fellow  1999

B. Appointments

Associate Curator  2014-present  Dept. of Nat. Hist.  University of Florida
Associate Professor  2007-2014  Ecol. & Evol. Biol.  University of Colorado
Curator of Zoology  2000-2014  CU Museum of Natural History  University of Colorado

C.i Five Most Relevant Products


Map of Life (http://mappinglife.org) website and mapping application for examining multiple different distributional products for tens of thousands of species. The beta version of Map of Life has been accessed extensively by users since its launch in May 2012.

C.ii Other Products


D. Synergistic Activities 2010-present

Service to the scientific community: I serve as an Associated Editor for the journal Biodiversity Informatics and PLOS ONE. Both are open access, and fit an ethical stance about the importance of open access and open data. I have coordinated multiple community oriented projects, including leading working groups or catalysis meetings at EOL-BioSync, NESCent and NCEAS in the past 5 years. I have been the Steering Committee Chair for a data sharing project called VertNet (vertnet.org) and have served as Steering Committee member or Co-Chair for iEvoBio, a satellite conference with Evolution (2010-2012). I served on a President’s Council of Advisors on Science and Technology working group on biodiversity and ecosystems in 2010 and on multiple advisory boards. I have organized multiple workshops and hackathons (most recently one in 2014 focused on citizen science and one in 2015 as part of an International Biogeographic Society workshop series); these focus in particular on graduate training courses outside traditional class programs. A further workshop on phonological data is scheduled for 2016 at the USGS Powell Center.

Service to the broader community: I have served as a member of Board of Directors and am the current President of the Board of the JRS Biodiversity Foundation. This is a primarily grant-making foundation that works in Africa and Latin America. The President’s role requires significant time during the year plus two in-person board meetings a year. I also serve on an oversight board for CONABIO in Mexico. I have been active in research review and evaluation committees at CU Boulder and have already started service activities at FLMNH and UF.

Broadening participation: My lab group has always remained diverse along gender and cultural lines. I have endeavored to bring undergraduates and volunteers both into my lab and into Museum collections. I have mentored 4 female honor’s students, two of whom are now finishing PhD degrees and two who have remained involved in research activities and field station work. I have focused my training more and more towards international students at the graduate and postdoctoral level (1 Spanish and 3 Indian postdoctoral students or graduate students) and am actively bringing on board more underrepresented students now that I have moved from CU Boulder to the more diverse University of Florida.

E. Collaborators (current, 17 total listed plus 1 advisor plus 21 students)

Nico Cellinese (Univ. of Florida), Carla Cicero (Univ. of California, Berkeley), Joel Cracraft (American Museum of Natural History), John Deck (Univ. of California at Berkeley), Walter Jetz (Yale), Akito Kawahara (Univ. Florida), David Lohman (CUNY), Austin Mast (Florida State University), Lucinda McDade (Rancho Santa Ana Botanic Gardens), Brian McGill (U. Maine), Cesar Nufio (CU Boulder), Cynthia Parr (Smithsonian Institute), Chris Ray (CU Boulder), Leslie Reis (Georgetown), Dave Vieglaís (University of Kansas), Ramona Walls (iPlant/UA), John Wieczorek (University of California at Berkeley).

E.i Graduate Advisor
Dr. David Lindberg, University of California at Berkeley

E.ii Students Advised

Terry A. Harpold

Associate Professor of English, Film & Media Studies
Department of English, voice: (352) 392-6650, ext. 282, 4008 Turlington Hall, UF, Gainesville, FL 32611-7310
Voice: (352) 392-6650 Fax: (352) 392-0860, tharpold@ufl.edu, http://users.clas.ufl.edu/tharpold/

Selected Highlights

Education

- 1987. AM, Comparative Literature and Literary Theory, University of Pennsylvania.
- 1983. BA, English, State University of New York, Stony Brook.

Journal articles & book chapters in progress

- “Narrowing Futures: Jean-Marc Ligny’s Climate Science Fiction.” 5000 words.

Books

- “Imagining Climate” (Series Editor: Terry Harpold) – A monograph and irregular what paper series devoted to the contributions of authors, artists, filmmakers, scholars, and cultural historians to the work of imagining climate and its influences on human life. Edited book series in development

Journal articles


Book chapters


**Exhibitions & curated screenings**


**Roundtables & collaborative presentations**


**Grants**

- Principal Investigator (with Alioune Sow, UF Center for African Studies), French Embassy in the United States, Network of Excellence: “Imagining Climate Change: Science and Fiction in Dialogue” (ICC). ($17,340 + cost-sharing of $12,000)
- Principal Investigator (with M. Elizabeth Ginway, SPS), Center for the Humanities and the Public Sphere, Workshop in the Humanities: “International and Minority Science Fiction in a Global World.” ($1750 + $750 cost-sharing from Principal Investigator’s home departments)

**Awards**

- 2016 Champions for Change Award, in recognition of the “Imagining Climate Change” initiative’s “significant contributions to campus life in the areas of sustainability, health, and well-being.” Office of Sustainability, University of Florida, April 6, 2016.
Education
University of Edinburgh, 1994-2000
  Ph.D., Near East and East Mediterranean Archaeology
Harvard University, 1998
  Visiting Fellow
University of California at San Diego, 1989-1993
  BA, Anthropological Archaeology, Honors

Employment History
The Alexandria Archive Institute
  Executive Director 2007 – present
The Alexandria Archive Institute
  Assistant Director 2001 – 2007
Murlo Excavations, Italy
  Project Zooarchaeologist 2011 – present
Domuztepe Excavations, Turkey
  Project Zooarchaeologist 1996 – 2010

Academic Interests:
- Incentives and approaches to data sharing in archaeology and related disciplines
- Procedures for online publication and dissemination of scholarly research content
- Ancient foodways and their bearing on issues of trade, identity, status, and specialization
- The nutritional, economic and symbolic roles of animals in early complex societies

Memberships and Service:
- Society for American Archaeology: Publications Committee (2012 – present)
- International Council for Archaeozoology (ICAZ): Executive Committee (2010 – present); International Committee (2010 – present); Vice-President (2014 – present)
- Editor of ICAZ website & BoneCommons (ICAZ community forum)
- Series Editor, Archaeobiology, Lockwood Press (since 2012)
- Editorial Board, Internet Archaeology (since 2015)

Grants & Awards (awarded to the Alexandria Archive Institute and Open Context)
2016  Archaeological Institute of America (AIA) Award for Outstanding Work in Digital Archaeology
2016  Institute of Museum and Library Services (IMLS) National Leadership Grant for Libraries ($249,920) for the project Building a Gazetteer of Anthropocene North America
2015  National Endowment for the Humanities (NEH) Research & Development Grant ($299,112) for the project Beyond Management: Data Curation as Scholarship in Archaeology
2014  J.M. Kaplan Fund ($30,000) for research on integrating conservation and excavation data
2012  NEH Digital Humanities Implementation Grant ($261,056) for the project Applying Linked Open Data: Refining a Model of Data Sharing as Publication
2012  The Encyclopedia of Life Computable Data Challenge prize ($33,600) in support of the project Exploring Biogeography of Early Domestic Animals using Linked Open Data
2012  National Science Foundation Archaeology program ($191,835) for the Digital Index of North American Archaeology (DINAA) project (with Univ. of Tennessee and Indiana University)
2011  The Alfred P. Sloan Foundation ($109,850) for the development of data publication editorial processes
2011  NEH Digital Humanities Start Up Grant ($49,850) for the project The Gazetteer of the Ancient Near East
2009  NEH Digital Humanities Start Up Grant ($49,707) for the project The Open Modern Art Collection of Iraq
2008  NEH / IMLS, Advancing Knowledge: The IMLS/NEH Digital Partnership grant ($250,609) for the project Enhancing Research Productivity in a Collaborative Data Sharing Environment.
2003-  The William and Flora Hewlett Foundation series of four grants to the Alexandria Archive Institute
2007  for operating costs ($750,000)

Selected Recent Publications


**Selected Data Publications**


**Selected Recent Conference Presentations and Symposia**

- **Apr 2016** Presentation: Questioning Data Standards in Zooarchaeology. Society for American Archaeology, Orlando, FL
- **Sep 2014** Roundtable (organizer): Digital Data: Collection, Organization, and Dissemination. International Council for Archaeozoology, San Rafael, Argentina
- **Sep 2014** Presentation: Data as Professional Practice in Zooarchaeology. International Council for Archaeozoology, San Rafael, Argentina
- **Apr 2014** Presentation: Documenting and Disseminating Zooarchaeological Data in the Digital Age. Co-authored with L. Atici, R. Meadow, and E. Kansa. Society for American Archaeology, Austin, TX
- **Apr 2014** Forum (panelist): Publishing Archaeology in the 21st Century. Society for American Archaeology, Austin, TX
- **Mar 2012** Presentation: Data Sharing as Publication, Establishing Editorial Policies and Workflows around Archaeological Data Dissemination. Society for American Archaeology, Memphis, TN
- **Nov 2011** Forum (organizer, with C.E. Jones and E. Kansa): Topics in Cyberinfrastructure, Digital Humanities, and Near Eastern Archaeology. American Schools of Oriental Research, SF, CA
- **Nov 2010** Workshop (organizer): Publishing Archaeological Data from the Field to the Web. American Schools of Oriental Research, Atlanta, GA
ABBREVIATED CV: CHRISTOPHER MCCARTY

OFFICE ADDRESS:
Suite 150, Ayers Technology Plaza, University of Florida, Gainesville, Florida 32611-7145, e-mail ufchris@ufl.edu,
Telephone (352) 392-2908 x101

POSITIONS:
University of Florida, Gainesville, Florida
Professor of Anthropology, 7/1/2015-present
Director, Bureau of Economic and Business Research. College of Liberal Arts and Sciences.
7/1/2011-present.
National Science Foundation Program Officer, Cultural Anthropology Program, .6 FTE
Associate Professor, College of Public Health and Health Professions. 9/2007 – 7/1/2015.
Director, University of Florida Survey Research Center. 7/1992 – present.
Associate in Research, Bureau of Economic and Business Research Survey Program. 9/90 - 6/92.
Research Analyst, Bureau of Economic and Business Research Economic Forecasting Program.

EDUCATION:
Definition in Ego-Centered Networks". Minor in Agricultural Economics.
1985 MA University of Florida, Gainesville, Florida. Major in Cultural Anthropology. Title:
"Development among the Otomi of the Mezquital".
1980 BA West Virginia University, Morgantown, West Virginia. Major in Sociology/Anthropology.

GRANTS AND CONTRACTS:
1997 National Science Foundation, “Counting the Uncountable”, $174,000 – Co-PI
2003 University of Florida Opportunity Grant, Measuring the relationship between egocentric network
structure and depression across gender, age and ethnic groups. ($21,000) -- PI
2003 Florida Biomedical Research Foundation, A Web-based Egocentric Network Tool for Visualizing
Social Influences on Smoking Behavior. ($50,000) -- PI
2004 National Science Foundation, Development of a Social Network Measure of Acculturation and its
Application to Immigrant Populations in South Florida and Northeastern Spain. ($150,000) -- PI
2006 University of Florida Opportunity Grant, Quantifying Scientific Impact: Cross-Disciplinary Trends
and Attitudes ($52,000) -- PI

Refereed Publications


Kim, HyunSoo; Tracy, Elizabeth; Brown, Suzanne; Jun, Min; Park, Hyunyong; Min, Meeyoung; McCarty, Christopher. (2015) Personal Networks of Women in Residential and Outpatient Substance Abuse Treatment. Addiction Research & Theory; 23(5)-404-412


Book Chapters


National Meetings – Refereed Presentations


Jose Antonio Tovar, Christopher McCarty, Raffaele Vacca, Brian Mayer, The Social Networks of Resilience Following an Environmental Disaster, Partnerships for Environmental Public Health, July 29, 2013

Christopher McCarty and Raffaele Vacca, Designing a Network Intervention for Collaboration Networks, POLNET, Bloomington, Indiana June 28, 2013
BONNIE MORADI, PH.D.

Department of Psychology
P.O. Box 112250, University of Florida, Gainesville, FL 32611-2250
Phone: (352) 273-2159; Fax: (352) 392-7985
Email: moradib@ufl.edu

EDUCATION
2001 Ph.D., Counseling Psychology, University of Akron (APA accredited); Pre-doctoral Internship, University of Missouri-Columbia Counseling Center, 2000-2001 (APA accredited)
1998 M.A., Psychology, University of Akron
1996 B.S., Psychology, Mary Washington College
1996 B.A., Women’s Studies, Mary Washington College

AWARDS AND HONORS
2015 Distinguished Scientific Contribution Award, APA Society for the Psychological Study of Lesbian, Gay, Bisexual, and Transgender Issues
2014 University of Florida’s Advanced Leadership for Academics and Professionals Program
Selected from faculty and staff applicants in leadership positions across the University
2013 LGBT Community Impact Award for Outstanding Faculty Member, University of Florida Office of LGBT Affairs
2012 Robin and Jean Gibson Term Professor, 2012-2013, University of Florida College of Liberal Arts and Sciences
2011 Research on Psychotherapy with Women Award
2011 Outstanding Major Contribution Award, The Counseling Psychologist; for Major Contribution on “Research with LGB People of Color” TCP (2010)
2011 APA Fellow, Society of Counseling Psychology; recognition of “unusual and outstanding contributions that have had national or international impact”
2010 Leadership Award for Scholarship, APA Committee on Women in Psychology

FUNDING (select)
UF Research Opportunity Seed Fund 08/10/15-08/10/17 $75,000 awarded
Closing the gender gap in STEM: A comprehensive approach using the case of mechanical and aerospace engineering.
Moradi (PI); Hahn (Co-PI)

Palm Center 07/31/13-08/31/15 $18,420 awarded
A study of transgender military personnel’s experiences in the U.S. military
Moradi (Independent Contract)

PUBLICATIONS (selected)
71 refereed journal articles (R), 7 book chapters (BC), 2 book reviews (BR)


*Part of a Major Contribution*


*Part of a Major Contribution*


REFEREED PRESENTATIONS (selected)

89 refereed, 11 invited national or international, 7 invited local


EDUCATION
Ph.D. English Literature  Rutgers University    1989
M.A. English Literature  Rutgers University    1982
M.A. Zoology    Southern Illinois University   1983
B.Sc. Biology    McGill University    1977

EMPLOYMENT HISTORY
UNC Charlotte:
   Professor, Department of English             2012 -
   Director of Graduate Liberal Studies        2005-2008
   Associate Professor, Department of English,  2002-
Georgia Institute of Technology:
   Interim Chair School of Literature, Communication, & Culture (LCC)  1999-2000
   Associate Chair LCC Georgia Institute of Technology  1997-99
   Associate Professor LCC                      1995-2002
   Coordinator Program in Science, Technology, & Culture (STAC)  1993-1996
   Assistant Professor LCC - Georgia Tech       1989-95
North Carolina State University
   Visiting Assoc. Professor English Dept.,     1996-97
Emory University
   Visiting Assistant Professor                1994
Rutgers University
   Program Director - Center for Critical Analysis 1988-89

PUBLICATIONS
Books

Selected Essays, and Articles


PROFESSIONAL ACTIVITIES:


Baldwin Scholars Council, The Baldwin Library at The University of Florida 2014 -

Editor - Configurations: A Journal of Literature, Science, and Technology 2001-10 Johns Hopkins University Press (Member of Founding Editors)

President, Council of Editors of Learned Journals (CELJ) – 2012-2016

Book Series Editor, “Intersections in Literature and Science,” University of Wales Press 2008-


Advisory Board, Penn State University Press –Animalibus: Of Animals and Cultures, a series edited by Nigel Rothfels and Garry Marvin.


“Visualization in the World”-Symposium Planning Committee, Charlotte Center for Visualization (College of Computing and Informatics, UNC Charlotte), April 24-25, 2008.

FELLOWSHIPS & GRANTS

- Gilder Lehrman Institute of American Studies Fellowship, NYPL, New York, 2007
- Boston Athenaeum Bicentenary Fellow, Boston 2006
- Franklin Fellowship, American Philosophical Society, Philadelphia, 2005
- Trent Dames Fellow in the History of Civil Engineering, Huntington Library, 2003-04
- Centre for Research in the Arts, Social Sciences, and Humanities, Fellow, Cambridge University. 2003
- C. P. Snow Fellowship, Harry Ransom Research Center, University of Texas, 2002
- Advanced Institute in the Humanities, University of Edinburgh, Fellow, 1992
- Lilly Teaching Fellowship - Lilly Foundation / Georgia Tech, 1990

RECENT PAPERS


Biographical Sketch: Elizabeth J. Reitz, Zooarchaeology

(a) Professional Preparation
University of Florida, Gainesville, Florida, Anthropology, BA, 1969
University of Florida, Gainesville, Florida, Anthropology, MA, 1975
University of Florida, Gainesville, Florida, Anthropology, PhD, 1979

(b) Appointments
Professor, University of Georgia, Department of Anthropology; 1997-present
Director, Georgia Museum of Natural History; 1997-2002
Director, University of Georgia Center for Archaeological Science, 2005-2013.
Associate Professor, University of Georgia, Department of Anthropology; 1987-1998
Assistant Professor, University of Georgia, Department of Anthropology; 1983-1987
Temp. Assist. Prof., University of Georgia, Department of Anthropology; 1979-1983

(c) Products

(d) Synergistic Activities
1997 to present, Coordinator, Georgia Museum of Natural History Undergraduate Internship; cross-listed with Anthropology, Biology, Ecology, Entomology, Forestry and Natural Resources, Geology, Plant Biology, and Plant Pathology.

2012 Elected as Fellow of the American Association for the Advancement of Science; Member of the American Academy of Arts and Sciences; Member of the International Council for Archaeozoology Committee of Honor.


Has served as a board member or committee member for the International Council for Archaeozoology, Sigma Xi, Society for American Archaeology, Society of Ethnobiology, Southeastern Archaeological Conference.

(e) Collaborators and Other Affiliations

Collaborators and Co-Editors: Michelle Alexander, U. of York; C. Fred T. Andrus, U. of Alabama; Kathleen A. Deagan, Florida Museum of Natural History; Susan deFrance, U. of Florida; Kitty Emery, Florida Museum of Natural History; Heather McInnis, American Association for the Advancement of Science; Rochelle A. Marrinan, Florida State U.; Thomas Pluckhahn, U. of South Florida; Ivy R. Quitmyer, Florida Museum of Natural History; Daniel H. Sandweiss, U. of Maine; C. Margaret Scarry, U. of North Carolina-Chapel Hill; Myra Shackley, Nottingham Trent U.; Camilla Speller, U. of York; David Hurst Thomas, American Museum of Natural History; Gregory A. Waselkov, U. of South Alabama; Dongya Yang, Simon Fraser U.; Martha A. Zierden, The Charleston Museum

(Collaborators: 17; Co-editors: 4)

Graduate Advisors: Dr. Elizabeth S. Wing, Florida Museum of Natural History, retired; Kathleen A. Deagan, Florida Museum of Natural History, retired; Charles H. Fairbanks, deceased; Maxine L. Margolis, University of Florida, retired; S. Jeffrey K Wilkerson, unknown; Ronald G. Wolff, deceased (Graduate Advisors: 6; Postdoctoral Sponsors: 0)

Thesis Advisor and Postgraduate-Scholar Sponsor: Dr. Sarah Bergh, Union Institute & University; Dr. Carol E. Colaninno, Arkansas Archeological Survey; Dr. J. Matthew Compton, independent contractor; Carla Hadden, University of Georgia; Charlene Keck, Marine Corps Air Ground Combat Center’s Archaeology and Paleontology Curation Center; Maran Little, University of Georgia; Dr. Kelly L. Orr; The New Teacher Project; Dr. Barnet Pavao-Zuckerman, University of Maryland, College Park; Rhonda Smith, Earth Search, Inc.; Victor Iminjili, independent contractor (Thesis Advisor: 10; Postgraduate-Scholar Sponsors: 0)

Other Affiliations: Adjunct Curator, Florida Museum of Natural History
ABREVIATED CV: VASSILIKI BETTY SMOCOVITIS

Education
Cornell University, Ph.D. Ecology and Evolutionary Biology/Program in History and Philosophy of Science and Technology, August, 1988
University of Western Ontario, Honours BSc. in Biology (Honours Plant Sciences), June, 1979

Academic Appointments
Center for Women’s Studies and Gender Research 2009-
Associate Professor, Dept. Zoology, University of Florida, Gainesville, Florida, 2004-2006; Associate Professor, Dept History, 1997-2006
Visiting Professor, Dept. Philosophy and History of Science, University of Athens, Greece 2003
Visiting Research Associate, National Museum and Art Gallery, Papua New Guinea, 1996
Visiting Fellow, Ecology and Systematics, Cornell University, Summer 1994
Visiting Scholar, Dept. Philosophy, Emory University, Summer 1993
Visiting Assistant Professor (Mellon Fellow in the Humanities), Stanford University, 1990-1992
Visiting Assistant Professor/Assistant Professor, Dept. History, University of Florida, 1988-1996
Instructor, John S. Knight Writing Program at Cornell University, Freshman Writing, 1987-88

Teaching Awards
Joseph H. Hazen Education Prize, History of Science Society, 2012
University of Florida, College of Liberal Arts and Sciences, Teaching Award, 2000-2001
University of Florida, University of Florida Teaching Award, 1996-97
University of Florida, College of Liberal Arts and Sciences, Teaching Award, 1996-97
John Mahon Undergraduate Teaching Award, Department of History, 1995
University of Florida, TIP Award, (Teaching Improvement Program Award), 1994
University of Florida, College of Liberal Arts and Sciences, Teaching Award, 1992-93

Awards, Fellowships and Honors
Kosciuczko Foundation, Visiting Professor, University of Warsaw, Poland (2017)
Elizabeth Wood Dunlevie Term Professorship, UF Honors College (2014-2015)
Named one of Top 25 Women Professors in Florida, 2013
Phi Beta Kappa Visiting Scholar to Nine American Universities, 2008-2009 (Inducted, 2008)
Fellow, American Association for the Advancement of Science, 2001
Golden Key, National Honor Society, Honorary Member, 1994
Andrew D. Mellon Fellowship in the Humanities, Stanford University, 1990-92
Cornell University, Three-year Teaching Assistantships, 1982-86
Natural Sciences and Engineering Council of Canada Post-Graduate Fellowship 1980-84
Connaught Fellow, University of Toronto, 1979-80
Botanical Society of America, Young Botanist Recognition Award 1979
Albert O. Jeffrey Scholarship in Plant Sciences, University of Western Ontario, 1979
University of Western Ontario, Gold Medal, 1979
University of Western Ontario, Dean's Honours List, 1976-79
Ontario Scholar
Research Interests

Select Major Recent Publications


Other Professional Activities
Advisory Boards: Advisory Editorial Board, University of Alabama Press, STEAM Series (2013-present)


Funded by NEH. Advisory Board, Institute for the Preservation of Medical Traditions, 2009-present


Funded by NEH. Associate Editor, Evolutionary Biology (Elsevier Press, 2016); New Dictionary of the History of Ideas (2002-2004).

ELIZABETH S. WING
Curator Emeritus
Florida Museum of Natural History
University of Florida, Gainesville, FL 32611-7800
phone: 352-392-1721; FAX: 352-846-0287; email: ewing@flmnh.ufl.edu

Highest Degree: University of Florida, 1957-1962, PhD in Biology
Current Position: Curator Emeritus, retired in 2001 after 40 years in various curatorial ranks
responsibility for the care of collections and research in Environmental Archaeology

Professional Service:
Vice-President, President of the Society of Ethnobiology, 1987-1991
Honorary Committee member International Council on Archaeozoology 2001-present

Major Grants:
Nine grants from the National Science Foundation for research and collection curation (1961-
1997)

Awards:
1996 Fryxell Award for interdisciplinary research, the Society for American Archaeology
1998 University of Florida Professorial Excellence Program Award

My research focuses on developing methods for the study of animal remains excavated from
archaeological sites. My aim is to apply the best methods possible to the study of samples of
animal remains in order to understand human uses of resources and the impact of these uses on
animal populations and the environment. The regions of particular interest are the southeastern
United States, circum-Caribbean, and northwestern South America.

SELECTED PUBLICATIONS

Newsom, Lee Ann, and Elizabeth S. Wing
2004 On Land and Sea: Native American Uses of Biological Resources in the West Indies.
University of Alabama Press, Tuscaloosa.

Reitz, Elizabeth J., and Elizabeth S. Wing

Wing, Elizabeth S.
1986 The Domestication of Animals in the High Andes. In High Altitude Biogeography, ed. by
1989 Human Exploitation of Animals in the Caribbean. In Biogeography of the West Indies, ed.
Wing, Elizabeth S. (cont.)


1999  Animal Remains from the Indian Creek Site, Antigua. In The Indian Creek Site, Antigua, ed. by I. Rouse and B. Morse, pp. 51-66. Yale University Publication in Anthropology No. 82.


Wing, Elizabeth S., and Antoinette B. Brown

Wing, Elizabeth S., Susan D. deFrance, and Laura Kozuch

Wing, Elizabeth S., and Sylvia J. Scudder

Wing, Elizabeth S., and Jane C. Wheeler, eds.

Wing, Elizabeth S., and Stephen R. Wing

Wing, Stephen R., and Elizabeth S. Wing
June 20, 2016

Valrie Minson, Chair
Marston Science Library
444 Newell Drive
George A. Smathers Libraries
Gainesville, FL 32607
vdavis@ufl.edu

Dear Valrie Minson,

This letter expresses the commitment of the Florida Museum of Natural History to participate in the proposed project to digitize and make broadly accessible the Elizabeth Wing archive. As the Director of the Florida Museum and a long-time friend and colleague of Dr. Elizabeth Wing, I offer my enthusiastic support of this proposal to curate and digitally disseminate the archives of her research as Curator of Environmental Archaeology. Dr. Wing has had a long and distinguished career here at the Florida Museum, from her start as a graduate student in zoology in the late 1950s to her eventual election to the National Academy of Sciences in 2006. Her research archives trace her important journey from mammalian biology (her PhD research) to recognition of the vital role of the human-animal interaction in defining modern biogeography and even, through domestication, animal biology. It was her recognition of this link that led her to explore, and eventually develop, the science of zooarchaeology and its contribution to the broader discipline of environmental archaeology.

The Elizabeth Wing archives were donated to the Florida Museum by Dr. Wing upon her retirement in 2001. Most are specifically associated with biological specimen collections curated at the Florida Museum, primarily in the Environmental Archaeology collections. But many are also associated with specimens in Ichthyology, Ornithology, and Invertebrate and Vertebrate Paleontology, testament to the far-reaching nature of her collaborations and the role of environmental archaeology in linking the cultural and biological histories of our Museum. We recognize the importance of the Wing archives and other similar collections that document the process of research careers, developing collections, and research on those collections. We also recognize the importance of the University of Florida Libraries in their expert role as curators of the documentary materials of the archives. Together, libraries and museums link biological and cultural collections to the history and context of their acquisition and research use. Thus, we agree to transfer the Wing documentary materials (the archives) to the University of Florida Libraries where they will be curated and made available for continued research use through this project.

The Florida Museum supports the involvement of several personnel in this project. Dr. Kitty Emery, current curator of Environmental Archaeology, is a co-PI of this project, and in that role...
will offer her guidance to students and researchers working directly with the conservation and
digitizing of the archives, will interpret the archives for effective metadata and indexing of their
content, and will contribute to the development of the dissemination products. Dr. Betty Dunckel,
Director of the Florida Museum’s Center for Science Learning will be a project partner, overseeing
the development of outreach and educational products to interface with the archive dissemination
and frame the importance of women in science for the younger generation. Sarah Fazenbaker,
Florida Museum Web Services Coordinator, will develop the website design in consultation with
University of Florida Information Technology and the Florida Museum Office of Museum
Technology Director Warren Brown.

Finally, the Florida Museum will actively disseminate information about the Wing archive project
through its website (flmnh.ufl.edu), outreach and public programming (through the K-12
educational materials and science/history cafés to be developed as part of the project), and
academic publications and presentations by Florida Museum personnel and students.

We look forward to collaborating on this very important project involving the archives of an
outstanding scholar who spent her entire academic career at a single institution, invented an entire
academic discipline, and thereby influenced future generations of anthropologists and
archaeologists around the globe.

Sincerely,

Douglas S. Jones
Director and Professor
Valrie Minson, Chair  
Marston Science Library  
444 Newell Drive  
George A. Smathers Libraries  
Gainesville, FL 32607

Dear Valrie

This letter expresses my commitment to participate in the proposed project to digitize and make broadly accessible the Elizabeth Wing archive. This project is important not only because it will support the archives of a pioneering scholar, but because of how it will inspire a generation of new scientists dedicated to studying the history and future of human-environment interactions. To that end I will gladly contribute by serving as a member of the project’s advisory board and will provide whatever assistance I can to help ensure the project’s success. I will also share news of its milestones and outcomes on the Open Context blog as well as my Lab Group’s blog (BrunaLab.org).

I should add that I am also excited about the potential for using this remarkable resource in my classes. I teach undergraduate courses in tropical ecology – a discipline in which women also played a formative but underappreciated role. Having this collection at my students’ disposal will allow me to develop course projects that use this archive and build on Wing’s diverse original research. That her work is as relevant today as it was then emphasizes how forward-thinking and innovative she truly was.

Finally, with the proposed user-friendly methods of dissemination the Elizabeth Wing Archive will provide important insights into the way in which field and laboratory sciences are actually complementary and intertwined social networks. It is an honor to be involved in this remarkable project.

Best regards,

Emilio Bruna, Ph.D.  
Professor and Distinguished Teaching Scholar  
Department of Wildlife Ecology and Conservation &  
Center for Latin American Studies
Dear Valerie Minson:

I write to express my commitment to participate in the proposed project to digitize and make broadly accessible the Elizabeth Wing archive.

I am particularly interested in seeing this project succeed as its objective in making the Elizabeth S. Wing Archive available digitally will have direct effect on my own research. My work—specifically in ecocomposition, ecocriticism, environmental rhetoric, and fisheries/ocean conservation are inextricably bound to questions about the early Anthropocene and the ancient human-environment relationship. For example, my current book project (under contract with Texas A & M University Press) examines the future of the world’s oceans, but in order to do so, I examine the history of human-ocean interaction. The Wing Archive would provide insight into this relationship. Likewise, a significant part of my work in visual rhetorics, in particular environmental visual rhetorics, would benefit from the archive’s focus on image-based texts. The Wing Archive establishes the interdisciplinary approach to Environmental Archaeology that supports the kind of research I do, and that more of my students do.

Within the Humanities, and within English Studies, ecocriticism emerged in the early 1990s as a way in which literary scholars could begin to answer the question “how can we answer the growing environmental problem?” and began to consider the role of humanities in how we understand environmental crisis. The Wing Archive stands to be a globally-important resource for scholars around the world engaged in environmental humanities inquiries.

In my own research, I plan next to pursue a long-term writing project that will elaborate a theory and practice of “blue ecocriticism,” a form of ecocriticism tied specifically to the oceanic and oceanic representations. Given the focus of the Wing Archive on fisheries' collapse, I anticipate that the Archive will be of tremendous value to my work.

As an advisor to the project, I hope to be able offer advice about curation of the Wing materials. However, what I hope most to offer the project is promotion of the Archive for graduate-student
research in areas tied to Environmental Archaeology, ecocriticism, ecocomposition, visual rhetoric, and environmental rhetoric/media.

In sum, I offer my full recommendation of the Elizabeth S. Wing Archive. If I can provide any further information to support the project, please do not hesitate to contact me.

Sincerely,

Sidney I. Dobrin
Professor and Chair
Director, Trace Innovation Initiative
July 9, 2016

Valrie Minson, Chair
Marston Science Library
444 Newell Drive
George A. Smathers Libraries
Gainesville, FL 32601
RE: Elizabeth S. Wing Archives

Dear Valrie,

This letter expresses my enthusiastic commitment to and support of the proposed NEH project, *The Humanity Within Her Science: Digging Into the Impact of the Elizabeth Wing Archive*. The project’s goal to provide accessibility and discoverability of the significant collection of documents, images, and recordings related to the development of zooarchaeology and environmental archaeology in North America. Elizabeth Wing pioneered the emergence of Environmental Archaeology, influenced the nature of archaeological field research, and created a comparative specimen collection with an emphasis on Florida and the Caribbean. The collection contains skeletons or shells of modern animal species used to identify zooarchaeological materials and documents characteristics of animal species and provides evidence for a better understanding of conditions and economies of the past. By making her papers widely available to the public, Wing’s interpretation of the remains and environment can be utilized for further multi-disciplinary exploration.

I am pleased to be asked to serve on the Advisory Board, especially given my expertise in museum informatics and historical biology. Much of my informatics work is focused on how digitization can unlock new data that can be re-used and integrated, especially at the borders between the e-sciences and digital humanities. One goal is to further push against barriers that limit interdisciplinary work, especially bridging data and semantics divides and facilitating new linked and open data approaches. On the domain side, my particular interests are in the area of historical biogeography and drivers of environmental change. In sum, I am pleased to bring my expertise to the Advisory Board and am committed to the efforts proposed here.

In my role on the Advisory Board, I will review and provide feedback on the website and narratives, and disseminate information on the project when completed.

I look forward to working on the project team.

Sincerely,

Robert Guralnick
Associate Curator, Department of Natural History and FMNH
Dear Valrie,

This letter expresses my commitment to participate in “Humanity Within Her Science,” the proposed project to digitize and make broadly accessible the Elizabeth Wing archive.

I am delighted to advise in this effort to document Elizabeth Wing’s pivotal role in the development of Environmental Archaeology, and to make available to researchers and students in the history and sociology of science and to the general public the evidence of her remarkable career.

As a scholar working and teaching on the history of science and its influence on popular fiction, film, and art, Elizabeth’s scientific work represents for me a rare coherent record of the development of a new scientific discipline. As a humanist devoted to the fostering collaborations between the humanities and the physical and biological sciences, especially in the field of climate studies and climate’s influence on human civilization and culture, I find the premise and the aims of this project exciting and of significant potential. The envisaged digital archive could serve as a model for dialogue between humanistic and scientific recoveries of the history of science. As someone keenly interested in the challenges faced by women scientists in the 20th century, I find Elizabeth’s resolve, ingenuity, and success inspiring. Her story, and the stories of those with whom she worked – well-documented in the multiple and diverse media now squirreled away in her archive – need to be told, for historians and for rising students, female or male, who seek to understand the achievements of their predecessors.

The envisaged products of this project will sustain new graduate research in the history of science and the study of gender and scientific institutions. In the undergraduate classroom and for engaged laypersons with access to the archive by way of the innovative, user-friendly methods of dissemination proposed, the Elizabeth
Wing Archive will open important insights into field and laboratory science and their roles in the social networks of scientific disciplines. I look forward to assisting with this effort in every way that I can.

Sincerely,

Terry Harpold
Editor, ImageTexT
Associate Professor of English, Film & Media Studies
Director of Graduate Student Teaching & General Education
University of Florida
tharpold@ufl.edu
June 16, 2016

Valrie Minson, Chair
Marston Science Library
444 Newell Drive
George A. Smathers Libraries
Gainesville, FL 32607

Dear Dr. Minson,

This letter expresses my commitment to participate in the proposed project to digitize and make broadly accessible the Elizabeth S. Wing Archive (EWA). I am eager to help contribute to the success of this project by serving as a member of the project’s advisory board. The success of this project will help multiply the effectiveness of my own organization’s ongoing projects.

I am Executive Director of the Alexandria Archive Institute, which develops and maintains Open Context (http://opencontext.org), an open access data publishing service for archaeology and related fields. I am also Vice President of the International Council for Archaeozoology (ICAZ), a 500-member organization of zooarchaeologists worldwide. My role in the proposed project is twofold: (1) I will provide guidance about leveraging Linked Open Data approaches, based on my experience publishing data sets with Open Context, to broaden the reach and impact of the EWA archive; and (2) I will advocate for this project within the ICAZ community, in order to solicit feedback on the project’s development, as well as encourage others to adopt a similar model.

A key aim of Open Context is to expose data to enable interoperability with other efforts, in order to build a vast distributed network of high quality, discoverable, and intelligible research data. Collaboration with the proposed project will continue to build on this work by expanding interoperability with other humanities information systems based on shared concepts of geographic place, person, time period, and other concepts such as taxonomic information.

The proposed project will serve as a compelling example of using Linked Open Data to exponentially increase the impact of personal archives. It will provide tangible examples of how a scholar’s rich personal and professional documentation can be not only preserved, but shared broadly in a way that makes it useful and relevant to many disciplines. As part of my role in this project, I will share news of its milestones and outcomes on the Open Context blog (http://ux.opencontext.org).

Sincerely,

Sarah W. Kansa
Executive Director
July 14, 2016

Dear Valrie Minson:

Please accept this letter of support for the project titled “Humanity Within Her Science,” a project to compile the papers of Dr. Elizabeth Wing. As the incoming chair of the Department of Anthropology I am familiar with Dr. Wing’s impact on many disciplines, including my own, and the value of measuring that impact through her writing and correspondence. As a social network analyst specializing in personal network analysis I see the potential for using this approach to identify cross-disciplinary subgroups and brokers whose academic roots stem from the extensive work of Dr. Wing. Much in the tradition of Dr. Wing’s research, the University of Florida is embracing interdisciplinary collaboration as a way to accelerate scientific innovation. By understanding the details of Dr. Wing’s career we gain insight into ways of crossing what often appear to be hard boundaries. This research will be helpful to graduate students, young scholars and established researchers looking for new ways to find colleagues.

I have discussed the nature of the materials in Dr. Wing’s collections with the principal investigators of this project. These comprise a mix of easily measurable collaborations through co-authorship and co-citation. However years of correspondence and other text documents can be coded to add a layer of complexity to these traditional data sources to discover a far more nuanced set of connections. I’ve worked with colleagues in other disciplines to code these kind of data into network formats and see the potential for replicating that here.

I am happy to lend my support to this valuable project and to work with a new set of colleagues in the Florida Museum of Natural History and the UF Libraries. In the tradition of Dr. Wing’s research these kinds of collaborations may yield new ways of thinking about scientific networks and approaches to anthropological research.

Regards,

Christopher McCarty
Professor and Incoming Chair of Anthropology
Director Bureau of Economic and Business Research
Director Network Science Program, Clinical and Translational Science Institute
June 10, 2016

Valrie Minson, Chair  
Marston Science Library  
444 Newell Drive  
George A. Smathers Libraries  
Gainesville, FL 32607

Dear Valrie Minson:

I am writing in enthusiastic support of your NEH proposal titled: *The Humanity Behind Her Science: Digging into the Impact of Elizabeth Wing's Archive.*

I am delighted to serve as a member of the Advisory Board in support of this three-year project. In my role on the Advisory Board, I will provide feedback regarding the development of the Elizabeth S. Wing Archives website/interface. I will also review and advise on narratives outlining the importance of the Archives to the thematic areas identified in your proposal.

Your project aligns well with the Center for Women’s Studies and Gender Research’s (CWSGR) core strengths and distinctive areas of emphasis. Specifically, the CWSGR’s core strengths include interdisciplinary, transnational and socially engaged scholarship, active/experiential learning, and community engagement. Moreover, the CWSGR’s areas of emphasis include women in science and cultural studies. In my role as Director of the CWSGR, I am particularly enthusiastic about the project because it promises to advance these important foci within the field as well as with faculty, students, and the community. To this end, in addition to my responsibilities on the Advisory Board, the CWSGR can integrate the project and its outcomes into our public programming (e.g., public talks and workshops), and will disseminate information about the project to our network of over 100 core and affiliate faculty, over 100 core and affiliate graduate students, and over 500 campus and community stakeholders.

I look forward to working with you, the project team, and the other expert advisors.

Sincerely,

Bonnie Moradi, Ph.D.  
Professor of Psychology  
Director of the Center for Women’s Studies and Gender Research
Valrie I. Minson  
Associate University Librarian  
George A. Smathers Libraries  
University of Florida  
Gainesville, FL 32611-7011

Dear Valrie Minson:

I was honored to have been invited to serve on the Advisory Board for the Elizabeth S. Wing Archives project. The Board consists of many distinguished colleagues and will, I believe, be very helpful to the advancement of what promises to be a significant online archive. Needless to say, I accept the invitation with great pleasure and I am committed to participate in the proposed project to digitize and make broadly accessible the Elizabeth Wing archive.

My enthusiasm for this project is threefold. First, my research has consistently dealt with women in science who have helped redefine and extend our under appreciation of the physical world. Elizabeth Wing’s career is exemplary in this regard and I am certainly in awe of all that she has done. Second, as a trained zoologist as well as a literary scholar, I find Wing’s work very compelling particularly in her attention to the intersections among zoology, geology, and archaeology. Her research has helped inform my own work on Megatheria (giant ground sloths), contemporary sloths, as well as on dolphins and the “Sukotyro” (a creature described in zoological texts for over two centuries). Third, my interest in ecocriticism, from both scholarly and pedagogical perspectives, is enlivened by Wing’s thinking which is critical to the appreciation of ecological thought in a broad historical context.

In addition to writing and teaching in the area of 19th Century science (Lyell, Darwin, Wallace, etc.), I have turned my attention to remarkable environmental writers such as W. H. Hudson, Richard Jeffries, Aldo Leopold, Rachel Carson, and Helen Macdonald. These are the voices we come across in the humanities, but each of these writers in steeped in both environmental biology and, more to the point, “ethnobiology.” I anticipate being able to complement the teaching of their work with the materials we will foreground in the Wing Archives. This kind of integrated research, i.e. text and archives, will enhance student learning by highlighting the intellectual energy of discovery and synthesis that distinguish Wing’s career.

Our work at UNC Charlotte in sustainability and environmental studies will benefit enormously from having the Wing Archives available… and students and scholars elsewhere will benefit as we increase awareness of Wing’s work in organizations such as the Society for Literature, Science, and the Arts (SLSA, of which I am past-President), and the Association for the Study of Literature and the Environment (ASLS).

Elizabeth Wing has left a remarkable legacy to both the Florida Museum of Natural History and the University of Florida. It is only right that we share that legacy with environmental communities across the country as well as internationally. I am eager to join the effort to make that happen and, in doing so, to highlight the outstanding contributions of Elizabeth Wing.

With gratitude and sincerely yours,

Alan Rauch  
Professor of English

June 5, 2016
July 1, 2016

Valrie Minson, Chair
Marston Science Library
444 Newell Drive
George A. Smathers Libraries
Gainesville, FL 32607

RE: Elizabeth S. Wing Archives

Dear Valrie,

This letter expresses my enthusiastic commitment to and support of the proposed NEH project. The project’s goal to digitize and make broadly accessible Elizabeth Wing’s archives is an important one due to Dr. Wing’s role in the development of zooarchaeology and of environmental archaeology. She was one of the founding members of the International Council of Archaeozoology, for example. This organization is now the leading forum for communication in the field. She is also an accomplished artist.

I have two reasons for agreeing to serve on the Advisory Board. The first reason is that many of her important contributions are unpublished reports and conference papers. Just this past winter, a student here at the University of Georgia wanted to learn more about one of her projects. I happen to have a copy of the manuscript, otherwise I doubt she would have been able to find a copy. The second reason is my long familiarity with Dr. Wing’s research and the Environmental Archaeology Laboratory. My association with Dr. Wing began in 1974, thus I am familiar through personal experience with many of the activities that took place there. I have at least latent knowledge of many of the people with whom Dr. Wing associated during her long career, as well as many of her students and staff. One of my first assignments as a graduate student was to enter her zooarchaeological data into Selgam. I was aware of many of the thoughts, discussions, and gray literature behind the final published articles. I can also assist in tracing the academic networks that led to some of the current methods and thinking in the field. I would expect to help find these people, and hope we might capture some of the stories we all remember.

In terms of a specific role, I expect to contribute as needed to the various stages of the project, help find manuscripts and people, review the website and narratives, and disseminate information on the website when it is completed. A strength I bring to the project is my long familiarity with Dr. Wing’s research and the Environmental Archaeology Laboratory.
The passage of time is not kind to documents associated with research, particular not to the notes that are an integral part of research. Often only the publications survive, but the underlying data and documentation is discarded upon retirement, or simply mislaid. It may be found, but its importance is unrecognized. We should rescue as much of this vanishing record as possible and it is much better to do that with the help of the principle investigator than not. These records also show the trajectory of research and the discovery process involved in research. Recent research suggests that the public often thinks that brilliant discoveries come only to brilliant thinkers. They do not know that most of us WORK at those discoveries, which often as not involve many false starts. Capturing the evidence of that effort is important as a teaching tool and explaining the scientific method to the public. In the case of this particular archive, the long history of National Science Foundation funding and the role Dr. Wing played in many of the most important archaeological projects of the past 50 years all make this record particularly important.

I look forward to contributing to this important project.

Sincerely yours,

Elizabeth J. Reitz, Ph.D.
Professor of Anthropology
Curator, Zooarchaeology Laboratory
Dear Panel Member:

Please accept this as an enthusiastic endorsement as well as a commitment to the project titled “Humanity Within Her Science,” a project to compile the archives of Dr. Elizabeth Wing, and submitted in the way of a proposal for NEH. I write as the resident historian of science familiar with our archival collections, the Florida State Natural History Museum, and the history of science at the University of Florida. I cannot imagine a more important historical figure associated with us than Dr. Elizabeth Wing. She has made her career at UF working closely with a team of graduate students and fellow researchers, maintaining careful records of her research, her collections, as well as her extensive correspondence. As stands the materials available are vast, and quite well organized, as well as comprehensive in nature. They provide us with a unique opportunity to see how disciplinary innovation takes place, leading to entirely new areas of research. In this case, we are able to see how material artifacts commonly studied by archaeologists come together with knowledge about zoology, telling us not only about animal-human relationships and interactions, but also about the changing nature of human-mediated environments, so crucial to giving us understanding about important challenges facing us as a result of climate change.

Equally important as what these documents can tell us about the history of science, and how disciplinary innovation takes place, is the fact that they belong to an unusual woman scientist, someone whose research strategies, choices, and relationships may give us vital clues about the history of women in science or about science and gender, areas that are now considered foundational for understanding the complex interplay between the sciences and the humanities. The papers may tell us if, for example, particular strategies or choice of research topics work better than others for women scientists, as well as giving us a better sense of what challenges were faced by women of Dr. Wing’s generation and how they were addressed by someone so successful as to be given the distinction of election to the National Academy of Sciences (I can still remember the excitement that surrounded this stunning piece of news in the UF community, especially among younger women scholars).
In short, the collection has the potential to tell us a great deal about a number of important areas that integrate the sciences with the humanities and that happen to be very timely given both the number and sophistication of scholars working in the history of women scientists and gender researchers, the complex history of animal-human interactions, as well as the history of humanistic or social sciences such as archaeology (especially the long history of the Caribbean/Latin America). I have no doubt that it is an important collection, that it will be curated appropriately and that it will prove to be useful to a range of scholars in the humanities, and especially those interested in the humanistic elements of science and its historical, sociological and philosophical development.

As a faculty member here, I also am excited by having this collection at my, and my students’ disposal. I would be able to visit it with them, and turn them loose on varied research projects associated with any one of Wing’s stunningly diverse—and highly original—research programs. I very much hope, therefore, that NEH will support this project so as to enable access to this marvelous collection and to the life and legacy of Dr. Wing, her students and her many collaborators, especially in a Caribbean/Latin American context which is so vital to this part of the world.

Sincerely yours,

Vassiliki Betty Smocovitis
Professor, History of Science
Departments of Biology and History

Vassiliki Betty Smocovitis
Professor, History of Science
Departments of Biology and History
6 July 2016

Valrie Minson, Chair
Marston Science Library
444 Newell Drive
George A. Smathers Libraries
Gainesville FL  32607

Dear Valrie,

   It was a great pleasure to meet you and learn more about the proposed project to digitize and make widely available the data associated with the specimens in the Environmental Archaeology Collection at the Florida Museum of Natural History. Often one may be dazzled by the specimens in the Collection but not understand the vital importance of the associated documents. The specimens themselves can indicate the taxonomic identity, age and size of the animal, and sometimes the manner of its death. However, the documents describe the location and context in which the specimens were recovered. They also provide essential information about the uses of the recovered animals by people in the past. For example, were the animals from a site wild or domestic and if domestic what was the pattern of age at culling. The animal assemblage from each site and component of each site provides insight into the past uses of the fauna.
Thus the information within the documents associated with the faunal collection is vital for a full understanding of animal uses in the past. It is essential that the documents be available for any study of the specimens in the Environmental Archaeology Collection. The proposed digitization of the Collection documents will insure that the data will be safe and accessible for study of the faunal remains.

The proposal you plan is very important and I whole heartedly welcome the partnership of the Smathers Libraries with the Florida Museum of Natural History.

Best Regards

Elizabeth S. Wing  
Curator Emerita, Environmental Archaeology  
Florida Museum of Natural History

Copy: Kitty Emery and Iry Quitmyer
June 26, 2016

NEH Review Panelist
Humanities Collections and Reference Resources Panel
National Endowment for the Humanities
400 7th Street SW
Washington, DC  20560

Dear Panel Member:

It is my pleasure to endorse the “Humanity behind Her Science” project at the University of Florida, coordinated in conjunction with the Florida State Natural History Museum. As a historian of science who focuses on women, gender and science with a particular emphasis on the history of the natural sciences in the modern period, I find the availability of the extensive archives of Elizabeth Wing is an important accession. Reading the proposal was a strong reminder of the need to be attentive to the papers, artifacts, and oral histories of the women who have been path-breaking in the rapidly expanding and interrelated environmental studies work of the past half century.

This proposal is particularly compelling because the materials it seeks to curate are so comprehensive. Wing and her laboratory and field staff assiduously engaged in the collection of sometimes singular and important specimens even as they maintained careful records of those materials as well as the visitors and correspondence that made those materials so pertinent to scholars not only in the region but also around the world. Collecting in locations that were challenging and focused on regional materials has meant that the Caribbean area now has a particularly important record that engages not only the scientific record but, thanks to Wing’s perspective, a socially and culturally rooted record as well.

Archaeologists have for two centuries been interested in the “use” made of the natural objects which human beings have found and manipulated for themselves (hence stone, bronze, iron and other ages) and even collected the bones of animals acquired for food and other uses. But it is only with the initiative of Wing and some others that a more sophisticated analysis that investigated the dynamic of animal and human engagement has been undertaken in any detail. Wing proved to be exceptional in the questions she asked and path breaking in looking at collections in fresh, theoretical ways. It is important to understand how she made those moves and found colleagues who contributed to her interest in linking zoological evidence to cultural practice.

Biography is a critical way to understand the particular even as we investigate more general historical patterns. Elizabeth Wing, taking her advanced degree in the turbulent and formative years of the feminist movement, earned a place in academe as affirmative action
opened new doors in the 1970s. Married, with children, while pursuing field and laboratory work, Wing’s extensive archive along with a series of oral interviews, helps map the ways in which major issues played out in the midst of the challenges and opportunities as well as the opportunities being opened in that period. This is a timely proposal, allowing for oral history work not only with Wing herself but also with the students, colleagues, and local peoples whom she influenced and who shaped her thinking as well as she worked within and across disciplines.

Too often the “two cultures” mentality has segregated the sciences and humanities and in that process overlooked the history of those who worked in the interstices to challenge earlier disciplinary assumptions and to create new understandings. This project moves into that space by revealing just how such interdisciplinarity worked in practice as well as encouraging such engagement with these resources across disciplinary lines. I endorse the project with great enthusiasm and hope that I will have an opportunity to use these curated materials myself or through my graduate students either in person on in the extensive digital record that will be created.

Sincerely yours,

Sally Gregory Kohlstedt
Professor
NEH Review Panelist(s):
Humanities Collections and Reference Resources Panel
National Endowment for the Humanities
400 7th Street SW
Washington, DC 20506

Dear NEH Panelist(s):

I am writing to endorse the digitization project titled: “The Humanity Within Her Science: Digging into the Impact of Elizabeth Wing’s Archive.”

The Florida Museum of Natural History is one of the older and most historically significant natural history museums in the U.S., and Dr. Wing’s work reflects historiographically important dimensions of its past and its future that must be preserved. Starting in the 1950s, when former mouse biologist Arnold Grobman became the museum’s director and hired its first full-time curators to interpret the collections for the public, the museum became a national leader in (what we would today call) environmental education and outreach. As an early and prominent woman zooarchaeologist, Dr. Wing became a leader in this field (eventually, even a member of the National Academy of Sciences) and its practice in the museum context. Her work seeded what is today called “environmental archaeology” and provides a basis for tracking not only women’s progress in the museum field but also the collection and analysis of specimens of modern animals to use as references on issues such as the long term environmental effects of global warming.

From a humanities perspective, digitization of these collections will enable broader access and scholarly participation in telling these histories of the science, the research, and the museum. The types of materials – from research notes to interviews to photographs and films – are rich and diverse, which will enable multiple points of access and value for telling the institutional, disciplinary, and personal story of Dr. Wing’s work. I don’t have Ph.D. students myself, because my institution doesn’t offer a Ph.D. in History, but I imagine advising whatever history of biology graduate students that will listen of the existence of this material for further work in the history of biology, museums, and animal studies fields.

Yours sincerely,

Karen A. Rader
Professor, Department of History
Director, STS (Science, Technology, & Society) Program
Co-author of the award-winning Life on Display: Revolutionizing U.S. Museums of Science and Natural History (U. Chicago Press, 2014)
Department of Anthropology

June 26, 2016

Humanities Collections and Reference Resources
Division of Preservation and Access
National Endowment for the Humanities

Dear Sir or Madam:

It is a great pleasure to have been asked to write a letter of support for the proposal *The Humanity Within Her Science: Digging into the Impact of Elizabeth Wing’s Archive*, which seeks funding to bring together documents, recordings, and images from the remarkable career of Elizabeth Wing. Liz Wing is a founding mother of Environmental Archaeology, a field that brings a deep time perspective to understanding human/environmental interactions today and in the future. She was also a pioneer woman in science, establishing a place for herself as a leading researcher in archaeology and environmental sciences long before it was common for women to hold a PhD, let alone build a major research and training program. She has mentored, nurtured, and served as a guiding light for at least three generations of women in science. She raised two children and shared a long and happy marriage with her artist husband. The archival record of her research, her professional service, and interactions with students, researchers, the public, and her family will serve as an invaluable resource for future researchers hoping to build on her legacy of scholarship, as well as those seeking to trace the increasing prominence of women in formerly male dominated areas of scholarship.

I first met Liz Wing in 1982 at the fourth international conference of the International Council for Archaeozoology (ICAZ) in London. ICAZ was founded in 1971 as the first professional organization for researchers interested in the history of human relationships with animals. Liz was a founding member of ICAZ and the US representative to this nascent organization, which at the time was still a largely European oriented organization. She was also already a major, almost legendary, figure in zooarchaeology, both in the US and Internationally. I, on the other hand, was a third year graduate student attending my first international conference. While many (most) in her position would have no time or interest in someone so junior, Liz was genuinely interested in me, my interests and my progress in my career. Her warmth, encouragement, and the thoughtful insights she offered in this early meeting helped set me on a deeply rewarding career and life path. She instantly became an idol of mine and an example that I have strived to follow.

Four years later in 1986, Liz was pivotal in convincing the ICAZ leadership to hold their 1990 meeting at the Smithsonian in Washington DC, which Bruce Smith and I organized. This was the organization’s first meeting in the US and a milestone in its path to becoming an international umbrella for an emerging discipline that was just beginning to
make a major mark. She was also instrumental in the evolution of ICAZ into a broad-based dues paying membership organization with an elected board that, from 200-2006, I was privileged to lead as their first President. ICAZ now has a membership of over 600 from 35 nations. It hosts large quadrennial international conferences and serves as a home to 14 “working groups” that bring together large numbers of researchers from around the world to share their work in more focused aspects of this broad interdisciplinary area of study. Liz Wing has been a key figure in the maturation of this vibrant organization.

Together with Smith, Liz and I also organized a NEH sponsored symposium on the curation of zooarchaeological collections at the 1992 Smithsonian based meeting of the Society for Ethnobiology (another organization in which she played a seminal founding role). In addition, her leadership in creating – essentially single-handedly – a world-class program in environmental archaeology at the Florida Museum of Natural History served as a model for the Archaeobiology Program and Smith and I created at the Smithsonian in the early 1990s. This program (now the Program in Human Ecology and Archaeobiology) continues to follow the example she set in Florida in its combined dedication interdisciplinary research, collections curation and development, and mentoring of the next generation of researchers. I think that this long history of interaction with Liz, as a mentor, colleague, and friend makes me uniquely qualified to speak to the value of the Elizabeth Wing archival materials.

There are two equally important justifications for preserving this archive and making it accessible to others. The first is its unquestionable scientific and historical value. Liz Wing was doing interdisciplinary research well before it became fashionable. Her own mentor, Barbara Lawrence at Harvard University was one of a line of women trained in biology that was interested in examining the reciprocal impacts of human/animal interaction. Liz brought this appreciation for the potential of cross-illumination of biology and anthropology to the University of Florida when she created the first zooarchaeology program there based in the Natural History Museum, bringing together the Departments of Zoology and Anthropology into a single collections-based research program. Over the years, with the addition of archaeobotany, archaeoentomology, soil science and a number of other related disciplines into the mix, she built the nation’s first Environmental Archaeology program. The Environmental Archaeology Program at the Florida Museum of Natural History remains preeminent in the US. The documents and other records of her role in creating and growing this program, as well as those pertaining to her role in the formation of professional societies such as ICAZ and Ethnobiology, will be an invaluable resource for researchers in the history of science and the birth of transdisciplinary scholarship.

Her own research focused on two key problem areas: 1) animal domestication in South America and the dispersal of domesticated animals throughout the Americas and 2) the impact of human resource exploitation on coastal and island environments. Her many publications on these topics have shaped the direction of research in these important areas of inquiry and remain relevant to this day. These contributions have earned her a number of high profile awards and honors over the years: in 1996 she was awarded the Fryxell Medal in Interdisciplinary archaeology by the Society of American Archaeology, one of
the Societies two top awards for lifetime achievement and excellence in archaeology; in the early 2000s she was elected to the ICAZ Committee of Honor; and in 2007 she was elected to the National Academy of Sciences, the highest recognition of scientific achievement in the US. Her archives include both the seminal research articles on this environmental archaeology and the data upon which the research was based. These records and, especially, the meta-data she collected during the course of her long career represent invaluable resources for future research.

The second perhaps equally important justification for support of this request is that these records preserve a unique window in the woman herself - her mentorship of both young women and men, her friendships with colleagues around the world, and her role as a wife and mother. The warmth and generosity of spirit that I experienced when we first met nearly 40 years ago are defining characteristics of Liz Wing. In an era where success in the professional world often requires personal sacrifices, Liz managed to maintain a balance between the personal and professional still serves as a model for younger women, just as it did for me. There were plenty of challenges along the way that she met with stubborn determination and sense of purpose – quietly but effectively countering and overcoming the subtle and not so subtle obstacles that faced her as a woman charting a new research frontier in the 1960s though 1990s. At the same time, she also managed to raise two independent and accomplished children and build a sanctuary farm with her husband of nearly four decades. I am certain that this balance did not come without sacrifice – in both career and family – but the grace and equanimity, the apparent ease in which she moved between these worlds carries a lesson for young women today that it is possible to have a whole life that feeds both the mind and the soul. The papers, images, recordings including in this archive give testimony to this aspect of Liz Wing.

These records, then, represent the sum of a remarkable woman. They have great historical value in tracing the development of a key area of research and the birth of interdisciplinary scholarship in the US and internationally; they have continuing value for current-day and future research; they give testimony to the efforts of a pioneering woman who has made major, widely recognized scientific contributions; and they provide a privileged window into the warmth and generosity of a truly exceptional woman. I can’t think of a more worthy subject for NEH archival support.

Sincerely,

Melinda Zeder

Melinda Zeder
Senior Scientist and Curator of Old World Archaeology
Program of Human Ecology and Archaeobiology
Department of Anthropology
National Museum of Natural History
Smithsonian Institution
Appendix L

*The Humanity Within Her Science Website Mock-up*


Home page:

![Home page](image)

Scroll in parallax view:

*Explore the Elizabeth S. Wing Papers*

A significant collection of documents, images, and recordings related to the development of zooarchaeology and environmental archaeology in North America. Zooarchaeology is the study of animal remains from archaeological sites and their interpretation to understand the deep history of relationships between people and the animals of their world. Elizabeth Wing is the recognized "mother" of these fields in North America as the first female zooarchaeologist in North America and one of the first to shift these disciplines from simple biological identifications to the humanities focused anthropological interpretations. Wing created the first zooarchaeology (and later environmental archaeology) collection and research facility in North America.