

Molly (Martell) Selba

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EDUCATION

University of Florida, Gainesville, FL Expected: May 2020
PhD in Anthropology, Focus in Biological Anthropology
Recipient of a Graduate School Fellowship
Current GPA: 3.96

University of Florida, Gainesville, FL December 2017
M.A. in Anthropology, Focus in Biological Anthropology
Thesis title: The Impact of Selection for Facial Reduction in Dogs: Geometric Morphometric (GM) Analysis of Canine Cranial Shape

Johns Hopkins University, Baltimore, MD December 2014
B.A. in Archaeology and Anthropology; Minor in Museums and Society
Graduated with both departmental and general honors
GPA: 3.8; Dean's List: Fall 2011, Spring 2012, Fall and Spring 2013, Fall and Spring 2014.

University of Maryland Baltimore County, Baltimore, MD Summer 2014
Enrolled in and completed *Human Anatomy and Physiology* to supplement JHU curriculum.

State College of Florida, Bradenton, FL Spring 2010
Enrolled in and completed *Intro to Archaeology* to enrich high school program of study.

PUBLICATIONS, PRESENTATIONS, AND WORKSHOPS

Publication: Spring 2018
• **Selba MC**, Oechtering G, Heng HG, DeLeon VB. 2018. The Impact of Selection for Facial Reduction in Dogs: Geometric Morphometric Analysis of Canine Cranial Shape. *Anatomical Record* [In Revision]

Workshop: A Comparison of Hominins Using Fossils such as Teeth and Skulls Spring 2018
• This workshop presented a lesson plan to teachers, which allow them to use 3D printed hominin mandibles to include human evolution into their existing curricula.
• Presented at the National Science Teachers Association Annual Meeting in March 2018.

Presentation: The Human Evolution Teaching Materials Project Spring 2018
• This presentation introduced the Human Evolution Teaching Materials Project to science educators.
• Presented at the Southeastern Evolutionary Perspectives Society Annual Meeting in February 2018.

Presentation: The Human Evolution Teaching Materials Project Spring 2018
• This presentation got feedback on the Human Evolution Teaching Materials Project from the UF Anthropology community.
• Presented at the UF FASA weekly colloquia in January 2018

Publication:
• Smith TD, **Martell MC**, Rossie JB, Bonar CJ, DeLeon VB. 2016. Ontogeny and Microanatomy of the Nasal Turbinates in Lemuriformes. *Anatomical Record*, 299(11), 1492-1510.

Poster: Relationship of Turbinal Surface Area and Nasal Cavity Volume in Primates Spring 2017
• This study investigated the relationship of turbinal surface area and nasal cavity volume in select primates.
• Presented at the American Association of Physical Anthropologists Annual Meeting in April 2017.

- Poster: Heterochrony of Nasal Turbinal Development in Primates** Spring 2016
- Researched the development of the nasal turbinals in select primates from neonate to adult stages using CT scans in the DeLeon visual morphology lab.
 - Presented at the American Association of Physical Anthropologists Annual Meeting in April 2016.

- Poster: An Investigation of Elemental Biogenic Uptake: The Examination of Portable X-ray Fluorescence as a Method of Osteological Analysis** Spring 2016
- This study tested the capacities of pXRF as a means of qualitative, non-destructive analysis on bone in two sample populations to determine whether or not heavy metal poisoning was present.
 - Presented at the Paleopathology Association Annual Meeting in April 2016.

- Poster: Ontogeny of Nasal Turbinals in Lemur Catta** Spring 2015
- Researched the development of nasal turbinals using CT scans of Lemur catta of various ages in the Johns Hopkins University Center for Functional Anatomy and Evolution.
 - Presented at the American Association of Physical Anthropologists Annual Meeting in March 2015.

- Poster: Distribution of Rhomboid Fossa by Sex and Ancestry** Spring 2015
- A study of the collections at the Smithsonian Institution Museum of Natural History to understand the distribution of rhomboid fossa across different geographical locations and time periods and how that relates to the practiced distribution of labor.
 - Presented at the Paleopathology Association Annual Meeting in March 2015.

AWARDS AND HONORS

Travel Awards:

Anthropology Department	2015-2018
College of Liberal Arts and Sciences	2015-2018
Office of Research	2015-2017

- American Association of Anatomists Short-term Visiting Scholarship, University of Florida** Spring 2018
- Received an award of \$1000 to visit Dr. Timothy Smith at Slippery Rock University and learn histological methods as a capstone to a histology independent study

- Society for the Study of Evolution Small Grants Program for Local and Regional Outreach Promoting the Understanding of Evolutionary Biology Grant** Spring 2018
- Received a second award in the amount of \$1000 to continue development and implementation of the Human Evolution Teaching Material Project. This grant included monetary support for undergraduate volunteers to help progress HETMP

- University of Florida Department of Anthropology Poster Contest, Second Place (\$500 prize)** Fall 2017

- University of Florida Graduate School Fellowship** Fall 2015-Present

- O. Ruth McQuown Scholarship Award, University of Florida** Spring 2017
- Awarded on the basis of academic achievement, commitment to helping others break down barriers, and contribution to the community

- Society for the Study of Evolution Small Grants Program for Local and Regional Outreach Promoting the Understanding of Evolutionary Biology Grant** Spring 2017
- Received an award in the amount of \$1000 to develop the Human Evolution Teaching Material Project, an outreach initiative which provides resources for middle and high school educators to facilitate the inclusion of human evolution in science curricula

- Dean's Undergraduate Research Award: The Raymond Westbrook Undergraduate Research Award in Near Eastern Studies, Johns Hopkins University** Spring 2014
- Awarded \$2500 to research the effectiveness of Portable X-Ray Florescence to Analyze Elemental Biogenic Uptake

PROFESSIONAL EXPERIENCE: BIOLOGICAL ANTHROPOLOGY

DeLeon Virtual Morphology Lab, University of Florida 2015-Present

Research Assistant/Lab Member

- Analyzing and segmenting microCT scans in the NSF primate database
- Creating housing for collection of fetal remains

The Smithsonian Institution National Museum of Natural History, Museum Support Center 2014-2015

Intern, Supervisor: Dr. David Hunt, Physical and Forensic Anthropologist

- Analyzed and documented the human remains in The Robert J. Terry Anatomical Skeletal Collection.
- Created a concise and accessible pathology database that documents all of the osteological pathologies and anomalies in the Terry Collection.
- Assisted in necropsies to supplement the Smithsonian's research and growing comparative collection.

The Journal of Young Investigators, The Premier Undergraduate Research Journal 2014-2015

Associate Editor in the Psychology and Social Sciences Division

- Reviewed and edited undergraduate research for publication in the Journal of Young Investigators

Center for Functional Anatomy and Evolution, Johns Hopkins Medical Campus 2014-2015

Lab Technician, Supervisor: Dr. Valerie DeLeon

- Used Amira for post-processing CT scans of juvenile *Lemur catta* for use in academic research pertaining to ontogeny and dental eruption patterns in strepsirrhines.
- Assisted in photography of slides depicting human diseases in mouse models.

The Office of the Chief Medical Examiner, Baltimore, MD 2013-2014

Intern, Supervisor: Dr. William Rodriguez, Forensic Anthropologist

- Performed analysis on desiccated human remains, attended autopsy rounds, performed dissections, created inventories of remains in storage, and learned to recognize osteological evidence of various pathologies and trauma.

The Field School in Medieval Archaeology and Bioarchaeology at Badia Pozzeveri, Lucca, Italy Summer 2013

Student Bioarchaeologist

- Attended field school cosponsored by Ohio State University and University of Pisa. Faculty sponsors include: Dr. Giuseppe Vercellotti, Dr. Gino Fornaciari, and Dr. Clark Larsen.
- Participated in six weeks of excavation and in on-site Material Culture, Osteology, and GIS labs.
- Spent a significant amount of time excavating, handling, and analyzing human remains from burials on site.
- Presented on fieldwork to the faculty and students in the JHU archaeology department to fulfill the archaeology major's fieldwork component.

Crow Canyon Archaeological Center, Cortez, CO

Student Archaeologist

2008-2009

- Completed field school and excavated at the Goodman Point Site.
- Attended courses offered by Crow Canyon Archaeological Center and gained experiences both in the field and in the lab.

PROFESSIONAL EXPERIENCE: MUSEUM STUDIES

The Johns Hopkins Archaeological Museum, Baltimore, MD 2012-2014

Undergraduate Student Assistant

- Accessioned collections into museum database, made and lined boxes to aid in the museum's conservation efforts, and helped create case maps for use at the museum.
- Presented research done at the museum to a variety of student groups including CTY (Center for Talented Youth).

2nd Annual Museum Symposium, Johns Hopkins Archaeological Museum April 2013

- Presented on research done on an object in the Johns Hopkins Archaeological Museum (research from Archaeology at the Crossroads academic course)
- <http://archaeologicalmuseum.jhu.edu/writer/molly-martell/>

Center for Talented Youth and Roland Park Country Day School 2013

- Presented on research conducted at the museum and answered questions about archaeological inquiry and investigation.

The Visual Resources Collections, The History of Art Department, Johns Hopkins University 2012-2013
Work-Study Student
• Edited photographs from excavations conducted by Johns Hopkins faculty as well as other photos for use in the History of Art Department.

The Libby Museum, Wolfeboro, NH Summer 2012
Museum Staff
• Employee- Accessioned collections into museum database, helped design and assemble several exhibits (writing wall texts, conducting research, etc.), provided tours as a docent, designed a floor plan map for the museum, and helped coordinate the museum's 100th anniversary centennial activities.

Jewish Museum of Maryland, Baltimore, MD January 2012
Staging Suburbia - Academic Course
Student Curatorial Assistant
• Collaborated with the museum's curatorial team to assist with research, design, and label writing in preparation for a traveling exhibit focusing on the migration of Baltimore's Jewish population to the suburbs.
• <http://krieger.jhu.edu/magazine/2012/11/undergrads-curate-exhibit-about-post-war-jewish-life-in-baltimore/#>
• Conducted primary source research on artifacts in the museum's collection and archives.

Johns Hopkins Archaeological Museum, Baltimore, MD Fall 2011
Archaeology at the Crossroads – Academic Course
Student Researcher
• Conducted the first significant historical research completed on a ceramic Cypro-Geometric amphora in the museum's collection. Research was catalogued in the object's official record in the museum and presented at the 2nd Annual Museum Symposium.

EMPLOYMENT EXPERIENCE

QualQuant Website Fall 2017-Present
Webmaster
• Updating and maintaining the QualQuant website

SERVICE

Alpha Epsilon Lambda, University of Florida Spring 2018-Present
President
• Planning and presiding over Eboard and General Body Meetings, restricting dues system, and planning outreach events

City of Gainesville Parks, Recreation and Cultural Affairs Department Fall 2017-Present
Tutor
• Helping elementary school students with their homework and planning educational activities

Florida Museum of Natural History, University of Florida Fall 2016-Present
Volunteer
• Cataloging and accessioning the museum's paleontological collections

Alpha Epsilon Lambda, University of Florida Spring 2017-Spring 2018
Membership Chair
• Coordinated the application process and inducting new members

Florida Anthropological Student Association (FASA) Fall 2016-Spring 2017
New Graduate Student Liaison
• Helped new graduate students adjust to graduate school life

Museums and Society Student Advisory Committee, Johns Hopkins University, Baltimore, MD Spring 2012-2015
• Provided input to Johns Hopkins faculty on the Museums and Society program, served as a student advocate for the minor, and helped develop and plan events during the academic year.

Archaeology and Ancient Civilizations Club, Johns Hopkins University, Baltimore, MD

Events Coordinator

Fall 2011-2013

- Served as liaison between AACC and museums to plan trips and informational sessions with university faculty.

TEACHING EXPERIENCE

Teaching Assistant: Introduction to Biological Anthropology

Fall 2017-Present

- Facilitated labs totaling 45 students, delivered labs and practical exams, handled grading and attendance

Teaching Assistant: Human Sexuality and Culture

Fall 2016-Spring 2017

- Facilitated breakout sections totaling 80 students, helped students complete their research projects, responsible for grading and attendance

EDUCATIONAL OUTREACH

iDigFossils 3D Printing and Paleontology for Student Engagement in Science

Summer 2018

- Presented on 3D printing and science education/outreach to 50 teachers from across the country

Human Evolution Teaching Materials Project

Fall 2016-Present

- Created a resource to middle and high school educators to facilitate inclusion of human evolution in science curricula by helping teachers generate 3D models of hominin fossil crania and providing accompanying lesson plans. Funded by SSE.

Center for Precollegiate Education and Training Human Evolution Module

Summer 2017

- Helped present human evolution to AP Biology students through hands-on labs using both morphological and genetic evidence

AFFILIATIONS AND MEMBERSHIPS

The Southeastern Evolutionary Perspectives Society: 2017-Present

Florida Anthropological Student Association: 2016-Present

Alpha Epsilon Lambda (Graduate Student Honors Society): 2016-Present

Society for the Study of Evolution: 2017-Present

American Association of Physical Anthropologists: 2014-Present

Paleopathology Association: 2014-2016

American Association of Anatomists: 2015-Present

Society for American Archaeology: 2011-2012

SKILLS

Language: Proficient in French, Intermediate knowledge of Latin

Software: Microsoft Office, Photoshop CS3, PastPerfect, Adobe Lightroom, ArcGIS, AutoCAD, Adobe Bridge, Sofortbild, Amira, Filemaker, NIS Elements, R, ImageJ, MorphoJ, MeshLab, Wordpress, and Adobe Illustrator

References Available Upon Request