

Curriculum Vitae
SAMMANATHA N. HOLDER
(revised August 2018)

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RESEARCH AREAS

Bioarchaeology; stable isotope analysis (SIA); dietary reconstruction; human osteology; paleopathology; nutritional stress; Europe; Egypt

ACADEMIC HISTORY

Degrees & Certificates

- Current Doctor of Philosophy, University of Georgia, Department of Anthropology
Dissertation: *A Bioarchaeological Investigation of the Embodiment of Military Service in Napoleon's Grand Army*
Advisor: Dr. Laurie Reitsema
Interdisciplinary Certificate in University Teaching, The Graduate School & Center for Teaching and Learning
- 2013 Master of Arts, University of Central Florida, Department of Anthropology
Thesis: *Interpreting Diet and Nutritional Stress in Napoleon's Grand Army using Stable Carbon and Nitrogen Isotope Analysis*
Advisor: Dr. Tosha Dupras
- 2010 Bachelor of Arts, University of Pittsburgh, Department of Anthropology, *Summa cum laude*
Advisor: Dr. Joseph Alter
Certificate: Conceptual Foundations of Medicine, Department of History and Philosophy of Science

Additional Training

- 2018 IsoCamp: Stable Isotope Biogeochemistry and Ecology short course, University of Utah
- 2016 Baltic Studies Summer Institute, Indiana University
Introduction to Central Eurasian Languages I & II: Introductory Lithuanian I & II

Academic Appointments

University of Georgia

- 2018-Present **Graduate Research Assistant**, Center for Applied Isotope Studies
Summer 2018 **Instructor of Record**, Division of Academic Enhancement
Spring 2018, **Writing Intensive Teaching Assistant**, Departments of Anthropology and English
Spring 2017
2015-2018 **Graduate Teaching Assistant**, Department of Anthropology

University of Central Florida

- Fall 2012 **Research Assistant**, Laboratory for Bioarchaeological Sciences, Department of Anthropology
2010-2012, **General Teaching Assistant**, Department of Anthropology
Summer 2013

Other Relevant Employment

University of Georgia

Summer 2018 **Labor Clerk**, Laboratory of Archaeology, Department of Anthropology

University of Pittsburgh

2009-2010 **Research Assistant**, Merck Autism Institute, Children's Hospital

Spring 2007 **Research Assistant**, Katz Graduate School of Business

SCHOLARLY ACTIVITIES

Grants and Awards

External, University of Georgia

- 2018 **NSF Participation Award**, IsoCamp, University of Utah (\$1950)
- 2018 **Student Member Travel Award**, Human Biology Association (\$500), "Human biology: What issues should drive research over the next 5 years?"
- 2017 **Grants-in-Aid of Research**, Sigma Xi (\$1000), "Reconstructing dietary change in Napoleon's Grand Army: A bioarchaeological investigation of the embodiment of military strategies"
- 2016 **Title VIII Program for Research and Training in Eastern Europe and Eurasia Fellowship**, U.S. Department of State (\$5300)
- 2016 **Committee on Diversity Women's Initiative (COD-WIN) Workshop Participation Award**, American Association of Physical Anthropology (\$181)

Internal, University of Georgia

- 2018 – 2019 **The Beverly Hirsch Frank Graduate Fellowship for Women in Science**, The Graduate School (\$2000)
- 2018 **Summer Research Travel Grant for Doctoral Students**, The Graduate School (\$2000)
- 2017 **Innovative and Interdisciplinary Research Grants for Doctoral Students**, The Graduate School (\$2500), "Reconstructing dietary change in Napoleon's Grand Army: A bioarchaeological investigation of the embodiment of military strategies"
- 2017 **Dean's Award**, The Graduate School (\$3000)
- 2017 **Melissa Hague Field Study Award**, Department of Anthropology (\$500), "Reconstructing diet and stress in Napoleon's Grand Army: A bioarchaeological investigation of the embodiment of military strategies"

Peer-reviewed Publications

- Accepted Reitsema LJ, **Holder S**. Stable Isotope Analysis and the Study of Human Stress, Disease, and Nutrition. *Bioarchaeology International*.
- 2017 **Holder S**, Dupras TL, Jankauskas R, Williams LJ, and J. Schultz. Reconstructing Diet in Napoleon's Grand Army using Stable Carbon and Nitrogen Isotope Analysis. *American Journal of Physical Anthropology* 163(1):53-63. DOI: 10.1002/ajpa.23184

Guest Editorship of Peer-reviewed Journal Issues

- Accepted Holder S, Reitsema LJ (Eds.). *Bioarchaeology International* (Anticipated publication December 2018). Title: Stable Isotope Advances in Bioarchaeological Studies of Stress and Disease.

Accepted Holder S, Reitsema LJ (Eds.). *The Classic Journal* (Anticipated publication Fall 2018).
Tentative Title: Engaging with Social Issues through Social Science, Natural Science, and
Humanistic Approaches to Bioarchaeology

Conference Participation (Ψ =with undergraduate student)

Organized and Chaired Symposium Session(s)

2017 Stable Isotope Advances in Studies of Stress and Disease, American Association of Physical
Anthropology 86th Annual Meeting, New Orleans, LA. April 19-22.
Co-organizer and co-chair: Dr. Laurie Reitsema

Conference Presentations with Published Abstracts

Poster

- 2018 **Holder S**, Miliauskienė Ž, Jankauskas R, Dupras TL. Childhood Growth Disruptions and
Adult Stature: A Bioarchaeological Investigation of Life History in Napoleonic Soldiers.
Austin, TX. April 11-12. DOI: 10.1002/ajhb.23110
- 2017 **Holder S**, Reitsema LJ, Garland CJ, Smith AK, Lunsford J, Krajewska M, Kozłowski T.
Addressing the Inertness of Bones and Teeth in Isotopic Studies of Stress and Disease: A
Review of Advances and Future Prospects. American Association of Physical
Anthropologists Annual Meeting. New Orleans, LA. April 19-22. DOI: 10.1002/ajpa.23210 Ψ
- 2016 **Holder S**, Reitsema LJ, Dupras TL, Jankauskas R. Women in War: A Multi-isotopic Analysis
of Females Discovered in a Mass Grave with Napoleonic Soldiers. American Association of
Physical Anthropologists Annual Meeting. Atlanta, GA. April 13-16. DOI: 10.1002/ajpa.22955
- 2015 Schotten KL, Dupras TL, Jankauskas R, Williams LJ, **Holder S**, and J. Schultz. The Crypt
People from the Cathedral Basilica of Saints Stanislaus and Vladislaus, Vilnius, Lithuania:
Reconstruction of Life Histories using Stable Isotope Analysis. American Association of
Physical Anthropologists Annual Meeting. St. Louis, MO. March 25-28. DOI:
10.1002/ajpa.22718

Conference Presentations without Published Abstracts

Poster

- 2017 Lunsford J, Reitsema LJ, **Holder S**, Krajewska M, Kozłowski T. Investigating Diet and
Stress in Medieval Polish Individuals using the Bone Density Fractionation Method. CURO
Symposium. Athens, GA, April 3-4.
- 2016 **Holder S**, Reitsema LJ, Dupras TL, Jankauskas R. An Assessment of Dietary Trends in
Soldiers from Napoleon's Grand Army using Stable Carbon and Nitrogen Isotope Analysis.
Georgia Academy of Sciences Annual Meeting. Barnesville, GA. April 1-2.
- 2013 **Holder S**, Dupras TL, Jankauskas R, Williams LJ, Schultz J. Famine in the Midst of
Retreat: An Isotopic Analysis of Dietary Variation and Starvation in Napoleon's
Grand Army. Paleopathology Association Annual Meeting, Knoxville, TN. April 9-10.

Unpublished Reports

- 2018 Williams LJ, **Holder S**. Dayr al-Barsha Physical Remains. Reports prepared for Dayr al-
Barsha Project, KU Leuven, Belgium.
- 2017 **Holder S**. A Zooarchaeological Study of Urbanization and Sanitation in 18th and 19th
Century Charleston Houses. Report prepared for The Charleston Museum, Charleston, SC.
- 2017 Williams LJ, **Holder S**. Dayr al-Barsha Physical Remains. Reports prepared for Dayr al-
Barsha Project, KU Leuven, Belgium.

Creative Contributions

Blog Post(s)

- 2017 [The Writing Intensive Program Blog](#), English Department, University of Georgia, “Teaching Students to Communicate to a Popular Audience” (March)
- 2016 [The Polyglot](#), Baltic Studies Summer Institute, Indiana University, “Beyond Declensions and Conjugations: Learning Lithuanian at SWSEEL” (Summer)

Laboratory Experience

University of Georgia

- Summer 2018 Training in preparation of hair keratin, plant, and soil samples for SIA Stable Isotope Ratio Facility for Environmental Research at Utah, Salt lake City, UT
- 2017 - 2018 Initial dissertation bone collagen sample preparation for SIA Ψ
Bioarchaeology and Biochemistry Laboratory at UGA, Athens, GA
- Summer 2017 Dissertation sample and data collection
Anthropology Laboratory at Vilnius University, Vilnius, Lithuania
- 2016 - 2017 Bone density fractionation method protocol development and pilot study Ψ
Bioarchaeology and Biochemistry Laboratory at UGA, Athens, GA
- Fall 2015 Bone carbonate sample preparation for SIA pilot study
Bioarchaeology and Biochemistry Laboratory at UGA, Athens, GA

University of Central Florida

- 2012 - 2013 Thesis sample preparation for SIA
Laboratory for Bioarchaeological Sciences at UCF, Orlando, FL
- 2012 Research assistant, faunal sample preparation for SIA
Laboratory for Bioarchaeological Sciences at UCF, Orlando, FL
(PI: Dr. Tosha Dupras)

Field Experience

University of Georgia

- March 2017, 2018 Dayr al-Barsha Project. Osteology field research assistant: Osteological analysis of skeletal remains from Old Kingdom/1st Intermediate Period, Middle Kingdom, and Roman Period cemeteries. Dayr al-Barsha, Egypt. (PI: Harco Willems, Leuven University).
- Dec 2015 – Jan 2016 Baldwin Hall Excavation. Contract excavator: Excavation of slave burials from Old Athens Cemetery. Athens, GA. (Thomas Gresham, Southeastern Archaeological Services).

University of Central Florida

- June 2011 Huari-Ancash Bio-Archaeological Research Project at Marcajirca. Field school participant: Excavation and analysis of fragmented and commingled skeletal remains from Late Intermediate Period chullpas. Huari, Peru. (PI: Bebel Ibarra Asencios, Tulane University).

Research Featured in Public Media

- 2017 [Archaeology Magazine article](#) by Marley Brown
- 2017 [University of Central Florida College of Sciences News article](#) by Natalie Jebailey
- 2017 [The Guardian article](#) by Jennifer Raff
- 2015 [Forbes article](#) by Dr. Kristina Killgrove

TEACHING & MENTORSHIP

Teaching Awards

University of Georgia

- 2018 **Outstanding Teaching Assistant Award**, The Graduate School
2018 **Hudson Excellence in Teaching Award**, Department of Anthropology
2017 - 2018 **Future Faculty Fellowship**, The Graduate School & Center for Teaching and Learning (\$600)

Courses: Instructor of Record

University of Georgia, Division of Academic Enhancement

- Summer 2018 UNIV 1112: Developing Literacies in the Social Sciences (2 sections), 15 students/section

Courses: Teaching Assistant

University of Georgia, Department of Anthropology

- Spring 2018 ANTH 4265/6265 (Writing Intensive): Bioarchaeology, 15 students
Dr. Laurie Reitsema, Instructor of Record
- Fall 2017 ANTH 3040: Introduction to Biological Anthropology, 26 students
Dr. Roberta Salmi, Instructor of Record
- Spring 2017 ANTH 4265/6265 (Writing Intensive): Bioarchaeology, 17 students
Dr. Laurie Reitsema, Instructor of Record
- Fall 2016 ANTH 1102: Introduction to Anthropology, 283 students
Dr. Jason González, Instructor of Record
- Spring 2016 ANTH 1102: Introduction to Anthropology, 181 students
Dr. Jason González, Instructor of Record
- Fall 2015 ANTH 1102: Introduction to Anthropology, 282 students
Dr. Joseph Lanning, Instructor of Record

University of Central Florida, Department of Anthropology

- Summer 2013 ANT 2511: Human Species (online), 197 students
Dr. Amanda Groff, Instructor of Record
- Summer 2012 ANT 3212: Peoples of the World (online), 63 students
Dr. Sandra Wheeler, Instructor of Record
- Spring 2012 ANT 2000: General Anthropology, 152 students
Dr. Amanda Groff, Instructor of Record
- Fall 2011 ANT 2511: Human Species (online), 298 students
Dr. Amanda Groff, Instructor of Record
- Spring 2011 ANT 3311: Indians of the Southeastern U.S. (online), 150 students
Dr. Vance Geiger, Instructor of Record
- Fall 2010 ANT 2511: Human Species, 379 students
Dr. Pete Sinelli, Instructor of Record

Invited Talks

- July 2018, 2017 Writing for publication: Publishing as a student
(NSF REU Immersive Research in the Bioarchaeology of Greek Colonization).

October 2017 Forensic anthropology: What can we learn from the human skeleton?
(with K. Reinberger, Cedar Shoals High School, 3 Anatomy & Physiology classes).

Guest Lectures

University of Georgia

April 2018 Structural violence and peer-review workshop, ANTH 4265/6265
March 2018 Isotope analysis and human mobility in the past, ANTH 4265/6265
February 2018 Reconstructing long-term diet among Napoleonic soldiers, ANTH 2120H
January 2018 Oral health, ANTH 4265/6265
December 2017 Bio(cultural) medical anthropology, ANTH 3040
November 2017 Diet and war: Insights from research at UGA (with K. Reinberger), ANTH 3210
October 2017 Bioarchaeological approaches to prehistory, ANTH 3220
September 2017 Beer, wine, and bioarchaeology: Plant consumption in the past, ANTH 4300
September 2017 Osteology, forensic anthropology, and bioarchaeology, ANTH 3040
March 2017 Structural violence and bioarchaeology, ANTH 4265/6265
March 2017 Stable isotope analysis and diet reconstruction in bioarchaeology, ANTH 4265/6265
Jan-Apr 2017 Writing workshops (n=3), ANTH 4265/6265
February 2017 Reconstructing Napoleonic soldier lifestyles, ANTH 2002
October 2016 Studying diet and stress in Napoleon's army, FYOS 1001
October 2016 Cultural origins: Origins and impacts of domestication, ANTH 1102
November 2015 Isotope analysis and human migration: Strontium and oxygen, ANTH 4265/6265
October 2015 Models of clinal variation and evolution of human skin pigmentation, ANTH 1102

Undergraduate Student Mentorship

2015-Present Mentor, Undergraduate Mentor Program, Anthropology Graduate Student Organization.
Students mentored: Elizabeth Raeside (2018-present), Katey Mari (2017-present), Janae Lunsford (2015-2017)

SERVICE & PROFESSIONAL DEVELOPMENT

Service to the Profession

2016 Student volunteer, AAPA Annual Meeting

Service to the University

2018 Co-organizer, Women and the Field in the Social Sciences Keynote and Roundtable Discussion
2018 Breakout Session Co-Organizer & Co-Presenter, Spring Teaching Symposium
2017 - 2018 Mid-semester Formative Evaluation (MSFE) Facilitator (n=2)
2017 Graduate Student Beta-Tester, UGA Elements System
2017 Breakout Session Co-Organizer & Co-Presenter, New TA Orientation
2016 Judge, High School Student Behavioral and Social Science Poster Session, Georgia Junior Science & Humanities Symposium
2015 Judge, Undergraduate Poster Session at 10th Annual National Fall Symposium and Research Conference, Peach State Louis Stokes Alliance for Minority Participation

Service to the Department

2018 Spring Graduate & Undergraduate Student Social Organizer
2018 Anthropology Day Event Co-Organizer
2017 Halloween Murder Mystery Potluck Organizer and Presenter
2017 Graduate Student Panel Organizer and Presenter, "Graduate Student Trajectories"
2016 Graduate Student Panel Organizer and Presenter, "Graduate Student Trajectories"
2016 - Present Undergraduate Mentor Program Coordinator
2015 - Present Graduate Student Mentor for Undergraduate Mentor Program (n=3)

Outreach & Service to the Public

2018 Researcher/Co-Presenter, Scientific Research & Education Network, Athens, GA
2017 - Present College Coach, ULead, Athens, GA
2017 Researcher/Co-Presenter, Scientific Research & Education Network, Athens, GA
2014 Career Day Presenter, Lake Whitney Elementary School, Orlando, FL
2014 Event Organizer and Presenter, The Woods, Orlando, FL

Professional Development

2018 Sexual harassment workshop, UGA
2018 On writing as an essential nutrient in the ecosystem of knowledge workshop, UGA
2018 Weaving writing in: A writing-intensive course design bootcamp, UGA
2018 Facilitating difficult conversations workshop, UGA
2018 Choosing multiple choice webinar, UGA
2017 Community-engaged research on the tenure-track: Integrating teaching and research, UGA
2017 Training in facilitating MSFEs, UGA
2017 - Present Certificate in Diversity & Inclusion, Institutional Diversity, UGA
Certificate courses: Self-awareness & reflective practice for diversity & inclusion:
Transforming our schema
2017 SciREN's lesson planning workshop, UGA
2016 COD-WIN workshop for graduate student women scholars, AAPA

PROFESSIONAL MEMBERSHIP

American Association of Physical Anthropologists
Paleopathology Association
Human Biology Association
Sigma Xi Scientific Research Honor Society

SKILLS

Laboratory

Osteological analysis of human and faunal remains, paleopathological analysis, stable isotope analysis (bone collagen, bone carbonate, and hair keratin preparation and interpretation)

Field

Photography, mapping, and excavation of skeletal remains in situ

Computer

MS office, R software, SPSS

Language

Lithuanian (basic written and oral skills), Spanish (basic oral skills)