

Curriculum Vitae
SAMMANATHA N. HOLDER
(revised June 2018)

Address: University of Georgia
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RESEARCH AREAS

Biological anthropology; bioarchaeology; stable isotope analysis (SIA); diet 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 of Philosophy of Science

Additional Training

2018 IsoCamp: Stable Isotope 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

2018 **Instructor of Record**, Division of Academic Enhancement

2017 - 2018 **Writing Intensive Program Teaching Assistant**, Departments of Anthropology and English

2015 - 2018 **Graduate Teaching Assistant**, Department of Anthropology

University of Central Florida

2012 **Graduate Research Assistant**, Department of Anthropology

2010 - 2013 **General Teaching Assistant**, Department of Anthropology

Other Relevant Employment

University of Georgia

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

University of Pittsburgh

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

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 on Eastern Europe 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: Advances, Challenges, and Future Directions. *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 Anthropologists 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.23210Ψ

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**, Schultz J. 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. Ψ

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"

Newsletter(s)

- 2016 [The Polyglot](#), Baltic Studies Summer Institute, Indiana University, "Beyond Declensions and Conjugations: Learning Lithuanian at SWSEEL"

Laboratory Experience (Ψ=with undergraduate student)

University of Georgia

- 2017 - 2018 Initial dissertation bone collagen sample preparation for SIA Ψ
Bioarchaeology and Biochemistry Laboratory at UGA, Athens, GA
- 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
- 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

- 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). Mar
- 2015 - 2016 Baldwin Hall Excavation. Contract excavator: Excavation of slave burials from Old Athens Cemetery. Athens, GA. (Thomas Gresham, Southeastern Archaeological Services). Dec-Jan

University of Central Florida

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).
June

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), 20 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

- 2018, 2017 Writing for publication: Publishing as a student
 (NSF REU Immersive Research in the Bioarchaeology of Greek Colonization). July
- 2017 Forensic anthropology: What can we learn from the human skeleton?
 (with K. Reinberger, Cedar Shoals High School, 3 Anatomy & Physiology classes). Oct

Guest Lectures

University of Georgia

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

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 and carbonate 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)