

Brittany S. Walter, Ph.D., D-ABFA

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EDUCATION

- 2017 **Ph.D., Anthropology**
Department of Anthropology, University of South Carolina
Dissertation: *Paleodemographic and Biochemical Analysis of Urbanization, Mortality & Famine*
Advisor: Dr. Sharon DeWitte
- 2016 **Certificate of Graduate Study, Applied Statistics**
Department of Statistics, University of South Carolina
- 2012 **M.A., Anthropology**
Department of Anthropology, University of Central Florida
Master's Thesis: *Integrating the Differential Global Positioning System & Geographic Information Systems for Analysis & Mapping of Skeletal Dispersals*
- 2010 **B.A., Anthropology**, Summa Cum Laude
Department of Anthropology, University of Florida
Minor: Geography (Geographic Information Systems)

RESEARCH INTERESTS

Biological anthropology; human osteology; bioarchaeology; paleopathology; paleodemography; hazard model analysis; stable isotope analysis; urbanization; demographic transitions; medieval England; forensic anthropology; forensic archaeology; geophysical forensics; DGPS; GIS

POSITIONS

- 2019–
Current Forensic Anthropologist (GS-0190-13)
Defense POW/MIA Accounting Agency,
Department of Defense
Offutt AFB, Nebraska
- 2018–
Current Lecturer
Department of Anthropology,
University of Nebraska
Lincoln, Nebraska
- 2017–19 Anthropologist & Contractor Supervisor, SNA International
Supporting Defense POW/MIA Accounting Agency,
Department of Defense

Offutt AFB, Nebraska

2017 Post-Doctoral Research Fellow, Oak Ridge Institute for Science & Ed
Supporting Defense POW/MIA Accounting Agency,
Department of Defense
Offutt AFB, Nebraska

BOARD CERTIFICATION

2020 Diplomate #133, American Board of Forensic Anthropology

PUBLICATIONS

Refereed Journal Articles

Walter BS, DeWitte SN, Dupras T, and Beaumont J. 2020. Assessment of nutritional stress in famine burials using stable isotope analysis. *American Journal of Physical Anthropology*, 172(2) 214–226.

Klunk J, Duggan AT, Redfern R, Gamble J, Boldsen JL, Golding B, **Walter BS**, Eaton K, Stangroom, J, DeWitte SN, and Poinar, HN. 2019. Genetic resiliency and Black Death: No apparent loss of mitogenomic diversity due to the Black Death in medieval London and Denmark. *American Journal of Physical Anthropology* 169(2):240–252. (DOI: 10.1002/ajpa.23820)

Walter BS and DeWitte S. 2017. Urban and rural mortality and survival in Medieval England. *Annals of Human Biology* 44(4):338–348. (DOI: 10.1080/03014460.2016.1275792)

Schultz JJ, **Walter BS**, Healy C. 2016. Long-term Sequential Monitoring of Controlled Graves Representing Common Burial Scenarios with Ground Penetrating Radar: Years 2 and 3. *Journal of Applied Geophysics* 132:60–74. (DOI:10.1016/j.jappgeo.2016.06.015)

Walter BS, DeWitte S, and Redfern R. 2016. Sex Differentials in Caries Frequencies in Medieval London. *Archives of Oral Biology* 63:32–39. (DOI: 10.1016/j.archoralbio.2015.11.024)

Walter BS and Schultz JJ. 2013. Mapping Simulated Scenes with Skeletal Remains Using Differential GPS in Open Environments: An Assessment of Accuracy and Practicality. *Forensic Science International* 228:33–46. (DOI: 10.1016/j.forsciint.2013.02.027)

Sandholzer MA, Erickson D, and **Walter BS**. 2013. AAFS 2013: Current issues and future trends in forensic radiology and imaging. *Journal of Forensic Radiology and Imaging* 1(2):88–90. (DOI: 10.1016/j.jofri.2013.03.037)

Refereed Book Chapter

Walter BS, DeWitte SN, Dupras T, Beaumont J. 2020. Dietary variation in an urbanizing city: A temporal analysis of diet in Late Medieval London using stable isotope analysis In *The Bioarchaeology of Urbanization*, Betsinger, T and DeWitte SN (Eds). Springer Press, New York, NY.

SYMPOSIA ORGANIZED

2017 Bioarchaeology of Transition: Health and Changing Environments
Organizers: **Walter, BS** and DeWitte, SN
American Association of Physical Anthropologists, New Orleans, Louisiana (April)

CONFERENCE PRESENTATIONS

Invited Presentations

- 2019 **Walter BS**, DeWitte SN, Dupras T, and Beaumont J. Dietary variation in an urbanizing city: A temporal analysis of diet in Late Medieval London using stable isotopes. Presented at the American Association of Physical Anthropologists; Cleveland, Ohio (April).
- 2017 **Walter BS**. Urbanizing Medieval London: Temporal changes in survivability. Presented at the American Association of Physical Anthropologists; New Orleans, Louisiana (April).
- 2014 **Walter BS**. Diagnostic differences of metastatic carcinoma and multiple myeloma in a bioarchaeological context. Presented at the Paleopathology Association Conference; Calgary, Alberta (April).

Contributed Presentations

- 2020 Palmiotto A, **Walter BS**, Kennedy LF, and Streetman, EN. A Survey of Perimortem Vertebral Trauma in Historic Cases. Presented at the American Association of Forensic Sciences Meeting; Anaheim, CA (February).
- 2019 Kindler A and **Walter BS**. Comparison of Caries Frequencies in Attritional and Famine Graves. Presented at the American Association of Physical Anthropologists Meeting; Cleveland, Ohio (April).
- 2019 Hook ESL, **Walter BS**, and DeWitte SN. Survivorship and Urbanization in Medieval England. Presented at the American Association of Physical Anthropologists Meeting; Cleveland, Ohio (April).

- 2019 **Walter BS** and Skorpinski KE. Assessment of Jugular Growth Plate Ossification for Age Estimation. Presented at the American Association of Forensic Sciences Meeting; Baltimore, Maryland (February).
- 2019 Ingvaldstad M and **Walter BS**. The Impact of Antimeric Leg Length Asymmetry on Adult Stature Estimation: A Validation Study. Presented at the American Association of Forensic Sciences Meeting; Baltimore, Maryland (February).
- 2019 Kindschuh S, **Walter BS**, Dunn TE. Assessing the Utility of the Suchey-Brooks Method on a Historical Sample. Presented at the American Association of Forensic Sciences Meeting; Baltimore, Maryland (February).
- 2019 Dunn TE, Kindschuh S, **Walter BS**. Evaluation of the Interobserver Reliability of Aging Methods from the Pubic Symphysis. Presented at the American Association of Forensic Sciences Meeting; Baltimore, Maryland (February).
- 2018 **Walter BS**, DeWitte, SN, Beaumont, J, and Dupas T. Isotopes and Famine: An Isotopic Comparison of Famine and Attritional burials in a Late Medieval London Cemetery. Presented at the American Association of Physical Anthropologists Meeting; Austin, Texas (April).
- 2016 **Walter BS** and DeWitte, SN. Urbanization and Mortality Risk in Late Medieval London. Presented at the American Association of Physical Anthropologists Meeting; Atlanta, Georgia (April).
- 2015 **Walter BS** and DeWitte S. Temporal Survival Analysis of Medieval St. Mary Spital Cemetery, London (c. 1120-1400 CE). Presented at the American Association of Physical Anthropologists Meeting; St. Louis, Missouri (March).
- 2014 **Walter BS**, DeWitte S, Redfern R, Beklavac J. Sex, Age and Caries: Sex Differences of Caries Frequency in Medieval London c. 1120-1250. Presented at the American Association of Physical Anthropologists Meeting, Calgary, Alberta (April).
- 2013 **Walter BS** and DeWitte, S. Status and stature: analysis of the association between socioeconomic status and adult stature in medieval London c. 1350-1538. Presented at the American Association of Physical Anthropologists Meeting; Knoxville, TN (April).
- 2013 **Walter BS**, Williams L, Dupras TL, Sheldrick P, VanThuyne B, Wheeler S, and Willems H. Too Much Macro, Not Enough Micro, and No Radiography at All: An Object Lesson in Characteristics of Differential Diagnosis of Breast Cancer in Ancient Egypt. Presented at the Paleopathology Association Meeting; Knoxville, TN (April).
- 2013 Dupras TL, Williams L, Sheldrick P, **Walter BS**, VanThuyne B, Wheeler S, and Willems H. Cancer in Antiquity – Two Cases from Ancient Egypt. Presented at the Paleopathology Association Meeting; Knoxville, TN (April).

- 2013 Dupras TL, Williams L, Sheldrick P, **Walter BS**, VanThuyne B, Wheeler S, and Willems H. Cancer, a Disease of Modern Industrial Society? Not Likely! A Review of Old and New Evidence from Ancient Egypt. Presented at the Bioarchaeology Conference; Cairo, Egypt (January).
- 2012 **Walter BS** and Schultz JJ. Mapping Dispersed Skeletal Remains in Obstructed Environments Using a Portable Differential Global Positioning System. Presented at the 77th Society for American Archaeology Meeting, Memphis, TN (April).
- 2012 **Walter BS**, Schultz JJ, and Murdock R. Integrating the Differential Global Positioning System and Geographic Information Systems for Mapping and Analysis of Skeletal Dispersals. Presented at the 64th American Academy of Forensic Sciences Meeting, Atlanta, GA (February).

AWARDS & HONORS

Extramural Research Awards

- 2015-16 National Science Foundation Doctoral Dissertation Improvement Grant
"Paleodemographic Analysis of Urbanization, Famine and Mortality"
Co-Principal Investigator (BCS-1540208, \$19,404)
- 2016 Honorable Mention, Student podium presentation,
85th Annual Conference of the American Assoc of Physical Anthropologists
- 2012 Student Presentation Award, Forensic Science Foundation,
American Academy of Forensic Sciences

Intramural Research Awards

- 2015 SPARC Research Grant, Office of Research, U South Carolina (\$5,500)
- 2014 Ceny Walker Grad Fellowship, Walker Institute, U South Carolina (\$2,500)
- 2014 Domestic Research Grant, The Graduate School, U South Carolina (\$500)
- 2014 Internat'l Research Grant, The Graduate School, U South Carolina (\$1,000)
- 2014 Dot O'Dell Grant, Dept of Anthropology, U South Carolina (\$600)
- 2012-16 Research Grants (7), Dept of Anthropology, U South Carolina (\$250-\$500)
- 2012 Best in Category, Graduate Research Forum, U Central Florida (\$800)
- 2012 Research Grant, Student Government Association, U Central Florida (\$350)
- 2011 Graduate Research Fellowship, U Central Florida (\$300)

Fellowships & Awards

- 2019 Distinguished Alumni Award, College of Sciences, U of Central Florida
- 2016-17 Dean's Dissertation Fellowship, College of Arts & Sciences,
U of South Carolina (\$25,000)

2012-16 President's Doctoral Fellowship,
The Graduate School, U of South Carolina (~\$110,000)
2015 Dean's Award for Excellence in Leadership,
The Graduate School, U of South Carolina (\$1,000)
2010-11 Graduate Dean's Fellowship, U of Central Florida (~\$50,000)
2006-10 Florida Opportunity Scholar, University of Florida (~\$40,000)
2006-10 Florida Bright Futures Scholarship (tuition for 4 years)

TEACHING EXPERIENCE

University of Nebraska-Lincoln

Lecturer

Pandemics: From Past to Present (2020)
Primate Behavior & Ecology (2020)
Basics of Forensic Anthropology (2019, 2020)
Forensic Anthropology (2019)
Advanced Topics in Forensics (2018)

University of South Carolina

Instructor

Primate Studies (2015, 2016)
Forensic Anthropology (2014, 2015, 2016)
Primates, People, Prehistory (2013, 2015)

Graduate Teaching Assistant

Human Origins (2014)
Primates, People, and Prehistory (2013)
Human Osteology (2012)

University of Central Florida

Preparing Future Faculty Certification (2011)

Graduate Teaching Assistant

Human Species (2012-online, 2011)
Archaeological Sciences (2012)
Human Osteology (2011)
Archaeology of Sex (2011)
Forensic Anthropology (2010, 2011)

STUDENT THESIS COMMITTEES

Sarah Ghannam, M.A. Committee Member. Department of Anthropology, University of Nebraska-Lincoln. Title: The Validity of an Age Estimation Method of the Medial Clavicle Using Photographs and 3D Renderings. Defended July 2020.

Maxwell Rooney, M.A. Anthropology, Committee Member. Department of Anthropology, University of Nebraska-Lincoln. Learning from Those Who Served: Application of Regression-Based Body Mass Estimation Methods to the *USS Oklahoma*. Defended April 2020.

ANTHROPOLOGICAL CONSULTING & CASEWORK

History Nebraska (External Consultant)– Omaha/Lincoln, Nebraska: Analysis of unidentified human remains, to include forensic anthropological reports for local law enforcement agencies (2019-20).

Federal Bureau of Investigation, Nebraska District– Analysis of human remains for a homicide investigation (2020)

Washington County Sheriff's Office – Blair, Nebraska: Analysis of unidentified human remains and recovery effort for additional remains (2018)

Pottawattamie County Medical Examiner's Office – Pottawattamie, Iowa: Consultation of human/non-human remains (2018-19)

Omaha Police Department – Omaha, Nebraska: Site survey and recovery effort for human remains (2018).

Orange County Sheriff's Office – Orlando, Florida: Consultation of human/non-human remains (2012).

District 9 Medical Examiner's Office– Orlando, Florida: Assisted in excavation, recovery, and analysis of remains (2010-12)

ASSISTANTSHIPS & FIELD EXPERIENCE

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|---------|---|
| 2016 | Program Assistant, South Carolina Alliance for Minority Participation Program
Office of the Vice President for Research, University of South Carolina |
| 2014-16 | Dissertation research (Co-PI for National Sciences Foundation grant)
Museum of London, London, UK
Barton-upon-Humber (English Heritage), Barton, UK |
| 2013-14 | Graduate Research Assistant |

- “The Medieval Black Death: Analysis of the demographic, health, and social consequences of a historic emerging disease” (BCS-1261682)
PI: Dr. Sharon DeWitte, U of South Carolina
- 2012 Field Research Assistant, Dakhleh Oasis Project at Kellis 2 Cemetery, Egypt
PI: Dr. Tosha Dupras, U of Central Florida
- 2011-12 Research Assistant, National Institute of Justice grant “Monitoring Long-Term Controlled Grave Scenarios Using Ground-Penetrating Radar” (NIJ 2008-DN-BXK-132)
PI: Dr. John J. Schultz, U of Central Florida
- 2011 Intern, Orange County Sheriff’s Office, Forensic Unit, Orlando, FL
- 2010 Intern, C. A. Pound Human Identification Laboratory, Gainesville, FL
- 2009-10 Intern, Medical Examiner’s Office, District 8, Gainesville, FL
- 2009 Honors Research Assistant, Florida Museum of Natural History

SERVICE

Editing & Review

Invited Reviewer, CRC Press. (2016–020)
Invited Reviewer, W. W. Norton & Co. (2014)
Reviewer, *American Journal of Physical Anthropology*
Reviewer, *International Journal of Osteoarchaeology*
Reviewer, *Forensic Anthropology*
Reviewer, *Journal of Forensic Sciences*
Reviewer, *Journal of Forensic Research*
Reviewer, *The Medieval Globe*

Invited Lectures & Presentations

Defense POW/MIA Accounting Agency, Archaeological Sciences, UCF (2018/19)
Hacking the Job Market, Grad Student Edition, Grad Anthro Assoc, UCF (2017)
Human Origins lecture, U of South Carolina (2014, 2016)
Teaching Assistant Orientation panelist, U of South Carolina (2013, 2013, 2014, 2015)
Getting into Grad School panelist, U of South Carolina (2014)
Doctoral Student Recruitment panelist, U of South Carolina (2013-2014)
McNair Scholars Program panelist, U of South Carolina (2013)
How to Get Funded!, Graduate Anthropology Association, U of Central Florida (2012)
The Technology of Forensics, Graduate Anthropology Association, U of Central Florida (2012)

University Service

Panelist, Applying to Graduate School, Summer Seminars, U South Carolina (2016)
NEH Next Generation Humanities Grant Proposal Committee, U of South Carolina (2016)
Provost's Blue Ribbon Committee on Graduate Student Life, U of South Carolina (2016)
Graduate Representative, U South Carolina, SECU Academic Collaboration (2016)
Provost Search Committee, U of South Carolina (2015)
University Libraries Committee, U of South Carolina (2014-16)
Healthy Carolina Committee, U of South Carolina (2014-2015)
Non-Campus Safety Committee, U of South Carolina (2014-2015)
Session organizer, Women's Leadership Conference, U of South Carolina (2013, 2014)
Start Smart Graduate Financial Literacy Committee, U of South Carolina (2014-15)
Grievances, Appeals, and Petitions Committee, U of South Carolina (2013-14 & 2015-16)
Provost's Advisory Committee on Women's Issues, U of South Carolina (2012-16)
Women Graduate Students Committee, U of South Carolina (2012-15)
Graduate Finance Committee, Graduate Student Assoc, U South Carolina (2012-14)
Mentor, Women's Mentor Network, U of South Carolina (2012-2013)
Leadership Committee, Graduate Student Association, U of South Carolina (2012-2013)
Anthropology Department representative, Graduate Fair, U of Central Florida (2011)
Anthropology Department representative, College Day, U of Central Florida (2011)

University Leadership

2015-16	Graduate Council Representative Graduate Student Association, U of South Carolina
2014-15	President Graduate Student Association, U of South Carolina
2013-14	Graduate Council Representative, Graduate Student Association, U of South Carolina
2013-15	Executive Board, Graduate Student Association, U of South Carolina
2012-13	Programming Coordinator, Graduate Student Association, U of South Carolina
2011-12	Founder/President, Graduate Anthropology Association, U of Central Florida
2011-12	Executive Board, Graduate Student Assembly, U of Central Florida

Professional Service

Reviewer, American Assoc of Forensic Sciences Meeting, Anthropology Section (2021)
Moderator, American Assoc of Forensic Sciences Meeting, Anthropology Section (2020)

Reviewer, American Assoc of Forensic Sciences Meeting, Anthropology Section (2020)
Judge, Undergrad Symposium, American Assoc of Physical Anthropologists (2013-15)
Volunteer, Archaeological Institute of America Lecture Series (2011-2012)
Volunteer, 63rd American Academy of Forensic Sciences Conference (2011)

PROFESSIONAL MEMBERSHIPS

American Board of Forensic Anthropology, Diplomate
American Academy of Forensic Sciences, Anthropology, Full Member
American Association of Physical Anthropologists, Member
Biological Anthropology Section, American Anthropological Association, Member
American Anthropology Association, Member
Forensic Archaeology Recovery Team, Member
Paleopathology Association, Member
Society of American Archaeology, Member
Society for Archaeological Sciences, Member
Osteology of the Carolinas, Member
Paleo-oncology Research Organization, Member and Presenter
Lambda Alpha National Anthropological Honor Society, Member

LABORATORY COMPETENCIES & PROFICIENCIES

ANSI National Accreditation Board standards that follow ISO/IEC 17025:2005

2017-Current Osseous Analysis
2018-Current Chest Radiograph Comparison
2017-Current Commingled Human Remains Analysis
2018-Current Material Evidence Analysis
In process Search and Recovery

PROFESSIONAL TRAINING & EDUCATION

Managing Trauma: Concise Descriptions and Clear Interpretation, Jennifer Love
Bone Trauma Practice, Jennifer Love
Geometric Morphometrics-Fundamentals Ann Ross
Manipulating Coordinate data- visualizing, error checks, and software, Ann Ross
3D-ID-Geometric Morphometric Classification of Crania for Forensic Scientists Software Best Practices, Ann Ross

Adult Skeletal Age Estimation: Transition Analysis Using the Entire Skeleton, American Academy of Forensic Sciences Meeting

Dental Assessment in Forensic Anthropology: Anatomy, development, sex and ancestry estimation (ASUDAS), and dental metrics; DPAA; Marin Pilloud

ANAB Assessor Training, Chaminade University, HI

Introduction to SQL, Summer Statistics Institute, The University of Texas-Austin

Common Mistakes in Statistics, Summer Statistics Institute, The University of Texas-Austin

Commingling and Re-association in Forensic Anthro Workshop, Dawnie Wolf Steadman

"Positive" Identification in Forensic Anthropology Workshop, Dawnie Wolf Steadman

Hazard Analysis in Bioarchaeology Workshop, Sharon DeWitte

Remote Sensing in Forensic Anthropology Workshop, Jonathan Leader

Rheumatic Diseases in Antiquity and Contemp. Pops. Workshop, Dawnie Steadman

Biomechanics, Biology and Interpretation of Fracture Workshop, Dawnie Steadman

Physical Anthropology Women's Mentoring Network, participant

Physical Anthropology Workgroup, University of Central Florida

COMPUTER & SOFTWARE:

- *Geographic Information Systems (GIS)*: use for undergraduate and graduate coursework; published scientific research; mapped and synthesized archaeological data
- *R*: free software for statistical computing and graphing; used for statistical analyses and graphing, requires knowledge of R programming language
- *SAS (Statistical Analysis System)*: statistical analyses for research in anthropological studies
- *SPSS (Statistical Package for the Social Sciences)*: statistical analyses for research in anthropological and archaeological studies
- *Canvas and Blackboard*: web-based collaboration/learning platforms used to post course materials, evaluations, grades, and, in the case of online courses, administer course
- *Adobe Bridge, Photoshop, Illustrator*: used to catalog and enhance photographs and digitize crime/recovery scene maps
- *FORDISC 3.0, 3.1*: Interactive discriminant functions program; used to assist in assessment of ancestry from cranial and post-cranial skeletal measurements
- *ADBOU Age Estimation Software*: software program that uses transition analysis to provide age estimates from skeletal indicators with explicit probabilities

- *STARLIMS Lab Information Management Systems*: a software-based information management tool for laboratories
- *Commingled Remains Analytics (CoRA) Ecosystem*: web-based program used in large-scale commingled human remains projects aid in remains segregation using osteological and DNA data
- *Osteosort*: Osteological sorting packing for R used in commingled human remains projects to segregate remains.
- *DEXIS digital dental x-ray software*: used to manage, manipulate, and annotate digital dental radiographic images.

PRESS

2020	Alumna Builds Career Around Studying Bones, U Central Florida
2015	"Brittany Walter: Balancing Act", UofSC Times, U South Carolina
2014	"Q&A with Brittany Walter", Graduate School Pamphlet, U South Carolina
2013	"Death Becomes Her", USC Times, U South Carolina
2013	"Secrets Revealed", The Carolinian, U South Carolina
2012-13	Student spotlight, "No Limits" Campaign, U South Carolina