

SARAH A. SCHRADER

Faculty of Anthropology, Leiden University
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EDUCATION

- 2013 PhD Purdue University, Anthropology, with distinction
Dissertation: “Bioarchaeology of the Everyday: Analysis of Diet and Activity Patterns in the Nile Valley” Advisor: Dr. Michele Buzon
- 2010 MS Purdue University, Anthropology, with distinction
Thesis: “A Bioarchaeological Investigation of Activity Patterns in New Kingdom Nubia” Advisor: Dr. Michele Buzon
- 2006 BA University of California, Santa Barbara, with honors
Double Major: Anthropology and History
Thesis: “Comparative Skeletal Analysis of Stature in California Native Americans”
Advisor: Dr. Phillip L. Walker

ACADEMIC POSITIONS

- 2017- Assistant Professor, Archaeology, Leiden University
- 2016- 2017 Adjunct Assistant Professor, Anthropology, University of Notre Dame
- 2014-2016 Visiting Assistant Professor, Anthropology, University of California, Santa Cruz
- 2013-2014 Visiting Assistant Professor, Anthropology, Western Michigan University

RESEARCH AND TEACHING INTERESTS

Bioarchaeology of the everyday; Sociopolitical complexity and resultant inequalities, health disparities, and violence; Dietary reconstruction; Mobility, migration, and ancient diaspora; Biogeochemistry; Mortuary archaeology; Nile Valley archaeology (Sudan, Egypt, North Africa)

PEER-REVIEWED PUBLICATIONS (*student collaboration)

- 2020 **S. Schrader** and C. Torres-Rouff. “Embodying Bioarchaeology: Theory and Practice.” In *Theoretical Approaches in Bioarchaeology*, ed. C. Cheverko, J. Prince-Buitenhuis, and M. Hubbe. Routledge.
- 2020 B. Bartholdy, E. Sandoval, M.L.P. Hoogland, and **S. Schrader**. Getting Rid of Dichotomous Sex Estimations: Why Logistic Regression Should be Preferred Over Discriminant Function Analysis. *Journal of Forensic Sciences*.
- 2019 **S. Schrader**, *Activity, Diet, and Social Practice: Addressing Everyday Life in Human Skeletal Remains*. Bioarchaeology and Social Theory Series, Springer. (D. Martin, series editor)
- 2019 **S. Schrader**, M. Buzon, L. Corcoran, and A. Simonetti, “Intraregional $^{87}\text{Sr}/^{86}\text{Sr}$ Variation in Nubia: New Insights from Third Cataract.” *Journal of Archaeological Science: Reports* 24:373-379.

- 2019 M. Buzon, **S. Schrader**, and G. Bowen, “Isotopic Approaches to Mobility in Northern Africa: A Bioarchaeological Examination of Egyptian/Nubian Interaction in the Nile Valley.” In *Trans-Sahara: State Formation, Migration and Trade in the Central Sahara (1000 BC-AD 1500)*, ed. D. Mattingly. Cambridge University Press.
- 2018 **S. Schrader**, S.T. Smith, S. Olsen, and M. Buzon, “Symbolic Equids and Kushite State Formation: A Horse Burial at Tombos.” *Antiquity* 92(362):383-397.
- 2018 **S. Schrader**, M. Buzon, and S.T. Smith, “Colonial-indigene interaction in Ancient Nubia: an integrative analysis of diet, health, and the material record.” *Bioarchaeology of the Near East* 12:1-32.
- 2017 **S. Schrader** and M. Buzon, “Everyday Life After Collapse: A Bioarchaeological Examination of Enteseal Change and Accidental Injury in Post-Colonial Nubia.” *Bioarchaeology International* 1(1-2):19-34.
- 2017 **S. Schrader** and S.T. Smith, “Socializing Violence: Interpersonal Violence Recidivism at Abu Fatima (Sudan).” In *Broken Bodies: Bioarchaeological and Forensic Approaches of Accumulative Trauma and Violence*, edited by C. Tegtmeier and D. Martin. Lexington Books, Latham, MD.
- 2015 **S. Schrader**, “Elucidating Inequality in Nubia: An Examination of Enteseal Remodeling at Kerma (Sudan).” *American Journal of Physical Anthropology* 156:192-202.
- 2014 **S. Schrader**, M. Buzon, and J. Irish, “Illuminating the Nubian ‘Dark Age’: A Bioarchaeological Analysis of Dental Non-Metric Traits During the Napatan Period.” *Journal of Comparative Human Biology* 65(4):267-280.
- 2012 **S. Schrader**, “Activity Patterns in New Kingdom Nubia: An Examination of Enteseal Remodeling and Osteoarthritis at Tombos.” *American Journal of Physical Anthropology* 149:60-70.
- In Prep **S. Schrader**, “On the Edge of Empire: An Osteological Examination of Rural Nubian Lifeways in an Egyptian Imperial Frontierspace.” Manuscript to be submitted to *International Journal of Osteoarchaeology*.
- In Prep J. Long* and **S. Schrader**, “Osteological Evidence of Difficult Birth: A Possible Case of Palsy from Ancient Nubia.” Manuscript to be submitted to *International Journal of Paleopathology*.

EXTRAMURAL RESEARCH FUNDING

- 2018 American Association of Physical Anthropologists Cobb Professional Development Grant, “Unearthing Hidden Stress and Frailty: An Assessment of Hair Cortisol and Non-Specific Disease Indicators” (\$7,500)
- 2017 Franklin Research Grant, American Philosophical Society, “Moving to the City: An Examination of Migration, Urbanization, and State Formation in Ancient Nubia” (\$6,000)
- 2016 National Geographic Society, “Socializing Violence in Ancient Nubia: Connecting Interpersonal Conflict with State Development in the Archaeological Record” (\$20,000)

2012 National Science Foundation Dissertation Improvement Grant, “Bioarchaeological Analysis of Diet and Activity Patterns in the Nile Valley,” BCS-1128950 (\$19,849)

INTRAMURAL RESEARCH FUNDING

2018 Bakels Research Grant, “Stressed Out: An Analysis of Archaeological Hair Cortisol,” Leids Universiteits Fonds (€5,000)

2014 Research Travel Fund, Office of the Vice President for Research, Western Michigan University (\$800)

2013 Walter Hirsch Award, Dissertation Research Award, Purdue University (\$1,500)

2012 Global Research Synergy Grant, “Identifying Migration: Egyptian Diet and Social Identity in Ancient Nubia,” Purdue University (\$10,050)

2012 Purdue Research Foundation Grant, “Archaeology of the Everyday: A Bioarchaeological Approach to Activity Patterns and Diet of Ancient Nubians,” Purdue University (\$15,288)

TEACHING – INSTRUCTOR OF RECORD

2017-2020 **Leiden University**
Advanced Osteoarchaeology
Advanced Paleopathology
MSc Internship
Professional Development
Scientific Methodology in Archaeology

2016-2017 **University of Notre Dame**
Biocultural Approaches to Food

2014-2016 **University of California, Santa Cruz**
Introduction to Biological Anthropology
Human Skeletal Biology
Bioarchaeology and Forensics
Biocultural Approaches to Food

2013-2014 **Western Michigan University**
Race, Biology, and Culture (lecture)
Race, Biology, and Culture (online)
Bioanthropological Approaches to Food
Cultures of Africa
Introduction to Biological Anthropology

2012-2013 **Purdue University**
Culture, Food and Health
Archaeology of Ancient Egypt and the Near East

ARCHAEOLOGICAL FIELDWORK AND EXPERIENCE

2018- Saqqara (Egypt); Researcher

2016- San Pedro de Atacama, Chile; Researcher

2015- Abu Fatima, Sudan; Co-Director of Excavation and lead bioarchaeologist

- 2015 Hannek, Sudan; Co-Director of Excavation and lead bioarchaeologist
- 2012 The British Museum; Researcher
- 2012 Duckworth Laboratory, University of Cambridge; Researcher
- 2012 Panum Institute, University of Copenhagen; Researcher
- 2010- Tombos, Sudan; Lead bioarchaeologist and lab manager
- 2007-2008 Port Anta Association for Iberian Archaeology, Lisbon; Research and instruction

LABORATORY TRAINING AND EXPERIENCE

- 2016- University of Notre Dame, Center for Environmental Science & Technology (carbon and nitrogen isotope analysis; EA-IRMS)
- 2015- University of Notre Dame, Integrated Imaging Facility and the Midwest Isotope and Trace Element Research Analytical Center (Strontium; MC-ICP-MS, SEM/FTIR)
- 2011-2012 Purdue University, The Study on global AGEing and adult health (SAGE; enzyme immunoassay for stress, cardiovascular health, and systemic inflammation biomarkers)
- 2010 University of Manchester, Analysis of Organismal Form Course (morphometrics, MorphoJ software)
- 2009 The University of Utah, Salt Lake City, Stable Isotopes in Ecology Course and Lab
- 2008- Purdue University, 3D Scanning, (NextEngine laser scanner)
- 2008-2013 Purdue University, Purdue Stable Isotope Facility (carbon and nitrogen isotope analysis of collagen and carbonate)

AWARDS

- 2016 Early Career Award, Paleopathology Association
- 2016 Accessibility Leadership Award, Disability Resource Center, University of California, Santa Cruz
- 2013 Teaching Award, Committee for the Education of Teaching Assistants, Purdue University
- 2011 Graduate Teaching Certificate Center for Instructional Excellence, Purdue University
- 2010 Distinguished Masters Thesis Award, Purdue University, College of Liberal Arts
- 2006 Distinguished Undergraduate Thesis Award, University of California, Santa Barbara
- 2006 Departmental Honors in Anthropology, University of California, Santa Barbara
- 2006 Departmental Honors in History, University of California, Santa Barbara

CONFERENCE PRESENTATIONS AND INVITED LECTURES (*student collaboration)

- 2020 **S. Schrader**, M. Buzon, and A. Simonetti “Strontium Isotope Variability (87Sr/86Sr) in the Ancient Nile Valley (Egypt and Nubia): Establishing Baseline Data and Tracking Human Mobility” poster presented, American Association for Physical Anthropologists

- 2019 **S. Schrader** “Stressed to Death: An Analysis of Hair Cortisol and Non-Specific Stress Indicators” podium presentation, British Association for Biological Anthropology and Osteoarchaeology
- 2019 **S. Schrader** (keynote). “Osteoarchaeology in the Nile Valley: What Bones Can Tell Us About Ancient Life” podium presentation, International Congress for Young Egyptologists
- 2019 **S. Schrader**. “Archaeological hair cortisol: A new frontier?” podium presentation, Nederlandse Vereniging voor Fysische Antropolgoie
- 2018 **S. Schrader** and S.T. Smith. “Secondary State Formation at the Third Cataract: Integrating Skeletal and Funerary Data from Abu Fatima” podium presentation, The 14th International Conference for Nubian Studies
- 2018 **S. Schrader**. “Mortuary Trends and Tenets in Ancient Nubia: A Case Study from the Third Cataract (Sudan)” podium presentation, Mortuary Archaeology Today: Approaches, Methods and Ethics
- 2018 **S. Schrader**, M. Hubbe, and C. Torres-Rouff. “Contextualizing the Biocultural Approach with Practice Theory: Physical Activity and Inequality During the Andean Middle Horizon and Late Intermediate Period” podium presentation, American Association of Physical Anthropologists
- 2018 Whitmore, K., **Schrader, S.**, and M. Buzon. “Examining methods to investigate migration: Strontium (⁸⁷Sr/⁸⁶Sr) and Oxygen ($\delta^{18}\text{O}$) variability in the Nile Valley” podium and poster presentation, Diaspora, Migration, and the Sciences: Towards a New Integrated Perspective
- 2018 Dijkstra, A.C.*, **Schrader, S.** and M.L.P. Hoogland. “Estimating sex from the calcaneus: Applications for forensic anthropological identification in the Netherlands” poster presentation, European Meeting on Forensic Archaeology
- 2017 M. Buzon and **S. Schrader**. “Comparison of Nubian and Egyptian Patterns of Physical Activity at New Kingdom Tombos” podium presentation, Society for American Archaeology
- 2017 **S. Schrader**. “Recent Findings of the UCSB-Purdue University Expedition to Tombos and Abu Fatima, 2017” podium presentation, Sudan Archaeological Society, National Museum of Sudan (Khartoum)
- 2016 **S. Schrader**. “On the Edge of Empire: An Examination of Osteoarthritis in an Egyptian Imperial Frontierspace” poster presentation, Midwest Bioarchaeology and Forensic Anthropology Association
- 2016 **S. Schrader**. “Colonial-Indigene Interaction in Ancient Nubia: An Integrative Analysis of Diet, Health, and the Material Record” podium presentation, Paleopathology Association
- 2016 **S. Schrader**. “Socializing Violence: Interpersonal Violence Recidivism at Abu Fatima (Sudan)” poster presentation, American Association of Physical Anthropologists
- 2016 M. Buzon and **S. Schrader**. “Life at the Third Cataract During the Napatan Period” podium presentation, International Conference for Meroitic Studies

- 2015 **S. Schrader** and J. Long*. "Preliminary Examination of Degenerative Wear in Abu Fatima" poster presentation, Western Bioarchaeology Interest Group
- 2015 S. Foraker* and **S. Schrader**. "Analysis of Kerma Culture: A Study Showing Osteological Indicators of Poor Health from the Abu Fatima Sub-Sample" poster presentation, Western Bioarchaeology Interest Group
- 2015 J. Long* and **S. Schrader**. "Examining Childhood Physical Impairment in Ancient Nubia" poster presentation, Western Bioarchaeology Interest Group
- 2015 **S. Schrader**. "Bioarchaeology of the Everyday" invited lecture, University of California Merced
- 2015 **S. Schrader** and M. Buzon. "A Bioarchaeological Assessment of Diet and Dental Health During the New Kingdom/Napatan Transition in Ancient Nubia (Tombos, Sudan)" poster presentation, Society for American Archaeology
- 2014 **S. Schrader**. "Identifying Social Inequality: A Bioarchaeological Analysis of Osteoarthritis at Kerma, Nubia," poster presentation, Western Bioarchaeology Group
- 2014 M. Buzon, **S. Schrader**, and G. Bowen. "Isotopic Approaches to Mobility in Northern Africa: A Bioarchaeological Examination of Egyptian/Nubian Interaction in the Nile Valley," podium presentation, Trans-Sahara Project: State Formation, Migration and Trade in the Central Sahara (1000 BC - AD 1000), University of Leicester
- 2014 **S. Schrader**. "Enacting Egyptian Colonialism: A Comparison of Enteseal Changes Between the C-Group and Pharaonic Samples," podium presentation, American Association of Physical Anthropologists
- 2014 M. Buzon, **S. Schrader**, and S.T. Smith. "Mortuary and Paleopathological Analyses of Juvenile Burials at the New Kingdom Site of Tombos, Sudan," poster presentation, American Association of Physical Anthropologists
- 2013 **S. Schrader**. "Broaching the Quotidian in the Ancient Past: A Bioarchaeological Perspective on Activity Reconstruction in Nubia," podium presentation, American Association of Anthropologists
- 2013 **S. Schrader**. "Reconstructing Activity at Kerma: An Enteseal Remodeling Comparison of Sacrificial and Non-Sacrificial Burials," podium presentation, Midwest Bioarchaeology and Forensic Anthropology Association
- 2013 **S. Schrader**. "Investigating Activity at the Third Cataract (Nubia): Enteseal Remodeling at Kerma and Tombos," podium presentation, American Association of Physical Anthropologists
- 2013 M. Buzon and **S. Schrader**. "Isotopic Variation of Geographic Origin and Diet in Upper and Lower Nubia During the Bronze Age: An Examination of the Sociopolitical Effects on Population Composition and Lifeways," poster presentation, American Association of Physical Anthropologists
- 2012 **S. Schrader**. "Continuity of Enteseal Changes from the C-Group to the New Kingdom in Ancient Nubia," podium presentation, Paleopathology in Egypt and Nubia: A Century in Review Symposium, London

- 2012 **S. Schrader.** “Activity Patterns in New Kingdom Third Intermediate, and Napatan Period Nubia: A Diachronic Study of Osteoarthritis and Enthesal Remodeling at Tombos,” poster presentation, American Association of Physical Anthropologists
- 2011 **S. Schrader.** “The Horse Discovered at Tombos, Sudan,” podium presentation, Archaeological Institute of America, University of Chicago
- 2010 Z. Hubbell and **S. Schrader.** “The Next Wave: An Introduction to Three-Dimensional Laser Scanning.” Workshop presentation, Midwest Bioarchaeology and Forensic Anthropology Association

PROFESSIONAL ACTIVITIES AND SERVICE

Student Thesis and Dissertation Mentorship

MSc theses completed at Leiden University (titles and dates upon request): Maike Bruijstens, Maia Casna, Petar Davidkov, Anne Dijkstra, Maria Feiler, Aliko Giannikou, Raquel Guedes-Almeda, Rachael Hall, Mike de Heij, Marta Hlad, Veronica Jackson, Roos Kallasingh, Lynn Jansen of Lorkeers, Marijke Langevoort, H el ene Lepage, Anna Maria Mavridou, Helena Mu noz Mojado, Jude Olszewski, Eleftheria Orfanou, Anita Perlot, Elena Sandoval, Maria Serrano Ruber, Hope Simpson, Niels Sommers, Michael Steenbakker, Merel van Eynde, Marijke van Kempen, Elisa van Veldhuizen.

Caine, Alyson. Ph.D. dissertation, University of California, Merced, in progress

Bornemann, Erin. Ph.D. dissertation, University of California, Santa Barbara, 2019

Gomez, Jamie. M.A. thesis, Western Michigan University, 2014

MacPherson, Scott. M.A. thesis, Western Michigan University, 2014

Miller, Katherine. Senior thesis, University of California, Santa Cruz, 2016.

Norris, Franklin. Senior thesis. University of California, Santa Cruz, 2016.

University Service

The Young Academy Leiden, the Dutch Academy of Sciences
Admissions Committee, Faculty of Archaeology, Leiden University
BA1 Mentor, Faculty of Archaeology, Leiden University

Professional Service

American Association of Physical Anthropologists—Pollitzer Travel Prize Reviewer

Reviewer

Current Anthropology

American Association of Physical Anthropologists

Journal of Archaeological Science

Yearbook of Physical Anthropology

Journal of Near Eastern Bioarchaeology

International Journal of Osteoarchaeology

International Journal of Paleopathology

International Journal of Bioarchaeology

Bioarchaeology International

HOMO - Journal of Comparative Human Biology
Quaternary International
Forbes
Archaeologia Austriaca
W. W. Norton & Company Publishing

Professional Affiliations

American Association of Physical Anthropologists
Society for American Archaeology
American Anthropological Association
Paleopathology Association
British Association for Biological Anthropology and Osteoarchaeology
Western Bioarchaeology Group
Midwest Bioarchaeology and Forensic Anthropology Association
Sudan Archaeological Research Society
Sudan Studies Association

Selected Outreach

BioAnth News, Administrator
Studium Generale, Speaker
The Anthropology Society Speaker, University of California, Santa Cruz
Women's Academic Engagement Speaker, University of California, Santa Cruz
Introducing Bioarchaeology to Elementary School, Western Michigan University
Speaker's Committee, Western Michigan University Faculty
STEMulating Careers, Western Michigan University
Bronco Bash Volunteer, Western Michigan University