

Abigail M. Breidenstein

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Universität Zürich
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Winterthurerstrasse 190
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EDUCATION

<i>Current</i>	Doctoral Candidate, Biological Anthropology, University of Michigan, Ann Arbor, Michigan <i>Advisor:</i> Abigail W. Bigham, Ph.D. <i>Expected Conferral:</i> December 2019
2016	M. A. Biological Anthropology, University of Michigan, Ann Arbor, Michigan
2010	B. S. Microbiology, University of Michigan, Ann Arbor, Michigan B. S. Anthropology, University of Michigan, Ann Arbor, Michigan

PUBLICATIONS

2016	Skuldbøl T, Uildriks M, Rose K, Philips J, & Breidenstein A. (2016). “The Medieval Fortification, Settlement, and Cemetery” in El-Kurru 2015-16: Preliminary Report. <i>Sudan & Nubia</i> , 20, 40-46.
2012	Reeves MB, Breidenstein A , Compton T. (2012). Human cytomegalovirus activation of ERK and myeloid cell leukemia-1 protein correlates with survival of latently infected cells. (2012). <i>Proceedings of the National Academy of Sciences</i> , 109(2), 588-593.

CONFERENCE PRESENTATIONS

2019	Breidenstein A. <i>Paleogenomic Investigation of Ancient Nubian Populations.</i> Sudan Studies Postgraduate Conference 3. Oxford, United Kingdom.
2018	Breidenstein A , Childebayeva A, Reiter E, Ferrari G, Zoeller GE, Emberling G & V Schuenemann. <i>Pilot Investigation of Mitochondrial Genomes of Medieval Nubians from El-Kurru, Sudan.</i> Conférence Universitaire de Suisse Occidentale: “Ancient DNA: A Time-Machine to Study Evolution,” Leukerbad, Valais, Switzerland. Breidenstein A , Childebayeva A, Reiter E, Ferrari G, Emberling G, Bouwman A, Rühli F & V Schuenemann. <i>Paleogenetic Investigation of Medieval Nubian Population from el-Kurru, Sudan.</i> Society for Molecular Biology & Evolution Satellite Meeting on Modern Methods for the Study of Ancient DNA, Providence, RI.
2017	Breidenstein A , Bouwman A, Zoeller GE, Emberling G, Rühli F & A Bigham. <i>Recovery of ancient DNA from Upper Nubian skeletal remains.</i> 86 th Annual Meeting of American Association of Physical Anthropologists, New Orleans, LA. Breidenstein A , Emberling G, Bouwman A, Rühli F & A Bigham. <i>Christian Life in Medieval Nubia at el-Kurru, Sudan.</i> 82 nd Annual Meeting of Society for American Archaeologists in Vancouver, Canada.

- 2016 **Breidenstein A**, Buzon M, & Devlin M. *Detection of Tetracycline in New Kingdom Nubian Remains from Tombs: Beer or Microbes?* 43rd Annual Meeting of Paleopathology Association, Atlanta, GA.
- 2014 **Breidenstein A**, Magnaye K, Bamshad M, Shriver M, Moore LG, Brutsaert T, Bigham AW. *Genetic evidence for natural selection at the high-altitude candidate gene, EGLN1.* 83rd Annual Meeting of American Association of Physical Anthropologists, Calgary, Alberta, Canada.

ACADEMIC POSITIONS

- 2016 – *present* **Academic Guest**
Institut für Evolutionäre Medizin (IEM), Universität Zürich
Principle Advisors: Verena Scheunemann, Dr., Head, Ancient Biomolecular Group
 Frank Rühli, Prof. Dr. Dr. med., Director of IEM
- 2014 – 2018 **Graduate Student Instructor**
Department of Anthropology, University of Michigan
 SP 2018 Written in Bone: Stories of Skeletons (AnthrBio 297 – Special Topics Course)
 WN 2018 Nutrition and Evolution (AnthrBio 364), with Professor Maureen Devlin
 FA 2017 Introduction to Biological Anthropology (AnthrBio 201), with Professor John Kingston
 FA 2015 Human Growth & Development throughout the Human Life Cycle (AnthrBio 462), with Professor Maureen Devlin
 *Received Outstanding GSI Award from Anthropology Dept
 WN 2015 Molecular Anthropology (AnthrBio 450) with Professor Abigail Bigham
 FA 2014 Human Growth & Development throughout the Human Life Cycle (AnthrBio 462) with Professor Maureen Devlin
- 2015, 2018 **Graduate Student Instructor**
Michigan Math & Science Scholars Summer Program, University of Michigan
Principle Instructor: Kathleen Aslup, Ph.D., Division of Anatomical Science
Principle Instructor: Máire Malone, Doctoral Candidate, Department of Anthropology
 Human Identification: Forensic Anthropology Methods
- 2018 **Lead Instructor**
Girls in Science and Engineering Summer Camp
Women in Science and Engineering Program, University of Michigan
 Forensic Anthropology Activity

FIELD RESEARCH

- 2019 – *present* **Assistant Director**
 Archaeological Project at the Royal Cemetery & Pyramids of Nuri
Nuri, Sudan
 Directed by Professor Pearce Paul Creasman, Ph.D. (University of Arizona),
 Co-Directed by Meghan Strong, Ph.D. (Cleveland Museum of Natural History)
- 2016, 2018 **Dissertation Research Project**

The International Kurru Archaeological Project (IKAP)
El-Kurru, Sudan
 Directed by Dr. Geoff Emberling (University of Michigan, Kelsey Museum of Archaeology)

2012 **Project Excavator, Field School in Medieval Archaeology and Bioarchaeology, Badia Pozzeveri**
Altopascio, Lucca, Italy
 Directed by Dr. Gino Fornaciari (University of Pisa) and Dr. Clark Spenser Larsen (Ohio State University)

2011 **Project Excavator, The Gabii Project**
Frascati, Latium, Italy
 Directed by Dr. Nicola Terranto (University of Michigan)

RESEARCH EXPERIENCE

2015 - 2016 **Research Associate, Curation**
University of Michigan Museum of Anthropological Archaeology (UMMAA)
Supervisor: Kerri Wilhelm, Collections Manager

2014 **Research Intern**
The Institute for Field Research, Los Angeles, California
Executive Director: Ran Boytner, Ph.D.

2011 - 2013 **Research Technician Associate**
Bigham Lab for Anthropological Genomics, University of Michigan
Principle Investigator: Abigail Bigham, Ph.D.

2011 - 2013 **Docent**
Kelsey Museum of Archaeology, Ann Arbor, Michigan

2008 **Infectious Disease Department Intern, Novartis Institute of Biomedical Research, Cambridge, Massachusetts**
Principle Supervisor: Matthew Reeves, Ph.D.

GRANTS, AWARDS & FELLOWSHIPS

External Funding

2019/2020	\$19,600	University of Arizona Research Advancement Grants – International Research & Program Development Grant
2019	\$8,500	Rust Family Foundation Archaeology Research Grant
2019-2020	\$15,000	Co-I, Archaeological Institute of America, Site Preservation Grant. Co-PIs: PP Creasman, ME Strong
2018	\$9,997	National Geographic Early Career Grant

Internal Funding - provided by the University of Michigan

2019	\$10,000	Departmental Funding, Anthropology
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2018	\$4,000	African Studies Center Support for Research and Internships in Africa & Weiser Center for Emerging Democracies Summer Fellowship
2018	\$1,000	MCompass Coleman Global Experience Scholarship
2017	\$1,000	UROP Funding for Grant Project
2016	\$8,500	Rackham International Research Grant
2016	\$3,000	Rackham Graduate Student Research Grant
2015	\$1,800	African Studies Center
2015	\$1,500	Rackham Graduate Student Research Grant
2015	\$4,000	Pre-Candidate Fieldwork Support, Department of Anthropology
2019	Fellowship	Tuition Only Fellowship (Winter), Rackham One-Term Fellowship (Summer)
2018	Fellowship	Block Grant Write-Up Fellowship (Fall)
2016	Fellowship	Rackham Humanities Research Fellowship (Sp/Su, Fa)
2016	Tuition Fellowship	Tuition Only Fellowship
2015	Fellowship	Spring/Summer Research Grant
2013-2014	Fellowship	Spuhler Fellowship

MENTORSHIP

2017 - 2018	Undergraduate Research Opportunity Program (UROP) Mentor University of Michigan Mentored two first-year students for academic year; Project: Inventory and Skeletal Analysis of Medieval Christians from el-Kurru, Sudan <i>Received Outstanding Mentor Award</i>
2013 - 2016	Graduate Student Mentor Bigham Lab for Anthropological Genomics, University of Michigan Graduate students are matched with undergraduate students working/volunteering in the lab to mentor semester- or year-long projects
2011 - 2013	Research Technician Associate Bigham Lab for Anthropological Genomics, University of Michigan Responsible for training and mentoring undergraduate and UROP students working/volunteering in the lab

SERVICE

2018	Peer Reviewed manuscript for <i>Journal of Ancient Egyptian Interconnections</i>
2013 - <i>present</i>	Biological Anthropology Graduate Student Group (BAGS) https://michiganbioanthrograd.wordpress.com/outreach/bioarchaeology/
2013 - <i>present</i>	Collaborative Archaeology Workgroup (CAW)
2013	Michigan Anthropology Graduate Association (MAGA) Sub-field Representative for Biological Anthropology (2013)

PROFESSIONAL MEMBERSHIPS

UM Museum Science Communication Fellow

American Association of Physical Anthropologists (AAPA)

American Association of Anthropological Genetics (AAAG)

Paleopathology Association (PPA)

Society of American Archaeologists (SAA)

American Sudanese Archaeological Research Center (AmSARC)