

ALYSSA C. BADER, M.A.

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Education

- 2019 Ph.D. in Anthropology (anticipated) – University of Illinois at Urbana-Champaign, IL
Advanced to candidacy January 2017, scheduled to defend April 2019
Dissertation: Investigating human diet and the oral microbiome in ancestral and descendant Northwest Coast Indigenous communities
Advisor: Ripan S. Malhi, Ph.D.
- 2014 M.A. in Anthropology – Southern Illinois University, Carbondale, IL
Thesis: Stress, Health, and Social Differentiation: A Middle Sicán Case Study
Advisor: Gretchen R. Dabbs, Ph.D.
- 2012 B.A. in Anthropology – Whitman College, Walla Walla, WA
Thesis: Mummy Dearest: Questions of Identity in Modern and Ancient Xinjiang Uyghur Autonomous Region

Appointments

- 2018 North American Biological Anthropology Graduate Intern, Field Museum
- 2018 Ethics Committee Fellow, American Association of Physical Anthropologists
- 2017 IDEAS Fellow, American Association of Physical Anthropologists
- 2016 Graduate College Distinguished Fellow, University of Illinois at Urbana-Champaign (2016-19)
- 2015 China Research Fellow, NSF East Asia and Pacific Summer Institute (EAPSI)
- 2015 Pre-Doctoral Fellow, Smithsonian Tropical Research Institute (STRI)
- 2014 Trainee, NSF IGERT Vertically Integrated Training in Genomics (2014-16)
- 2014 Summer Pre-Doctoral Institute Fellow, University of Illinois at Urbana-Champaign
- 2013 Summer internship for Indigenous Peoples in Genomics (SING) workshop participant, University of Illinois at Urbana-Champaign
- 2013 Teaching Assistant, Department of Anthropology, Southern Illinois University (2013-14)
- 2012 Research Assistant, Department of Anthropology, Southern Illinois University

Publications (authored)

- Bader AC, Malhi RS. (In Review). Vital Topics Forum: How subjectivity strengthens research: Developing an integrative approach to investigating human diet in the Pacific Northwest Coast. ***Am Anthropol.***
- Bardill J, Bader AC, Garrison NA, Bolnick DA, Raff JA, Walker A, Malhi RS, Summer internship for Indigenous peoples in Genomics (SING) Consortium. 2018. Policy Forum: Advancing the ethics of paleogenomics: Shifting the status quo on community consultation. ***Science*** 360(6387):384-385.
- Claw KG, Lippert D, Bardill J, Cordova A, Fox K, Yracheta JM, Bader AC, Bolnick DA, Malhi RS, TallBear K, Garrison NA. 2017. Invited commentary: Chaco Canyon dig unearths ethical concerns. ***Hum Biol*** 89(3):177-180.
- Bader AC, Malhi RS. 2016. Case study on ancestry estimation in an Alaskan Native family: Identity and safeguards against reductionism. ***Hum Biol*** 87(4):338-351.
- Malhi RS, Bader AC. 2015. Engaging Native Americans in genomics research. ***Am Anthropol*** 117(4):743-744.

Publications (consortium contributions)

Claw KG, Anderson MZ, Begay RL, Tsosie KS, Fox K, Garrison NA, Summer internship for Indigenous peoples in Genomics (SING) Consortium. 2018. A framework for enhancing ethical genomic research with Indigenous communities. *Nat Comm* 9(2957).

Major Research Grants and Awards

- 2017 NSF Doctoral Dissertation Research Improvement Grant: *An integrative approach to investigating human diet and the oral microbiome in ancient and living Pacific Northwest Coast communities* (\$31,701)
- 2017 Beckman Institute Cognitive Science/Artificial Intelligence Award: *An integrative approach to reconstructing the diet and oral microbiome of the ancient Coast Tsimshian community of Prince Rupert Harbour, British Columbia – Implications for the evolution of human social and cognitive complexity* (\$2,000)
- 2017 University of Illinois at Urbana-Champaign Anthropology Summer Research Award: *An integrative approach to investigating human diet and the oral microbiome in ancient and living Pacific Northwest Coast indigenous communities* (\$2,000)
- 2017 Illinois State Archaeological Survey Program on Ancient Technologies and Archaeological Materials Grant: *Using ancient dental calculus as a less destructive method of reconstructing paleodiet in the ancestral Coast Tsimshian community of Prince Rupert Harbour, Canada* (\$500)
- 2016 University of Illinois at Urbana-Champaign Graduate College Dissertation Travel Award: *Ancient DNA as a tool to examine the impact of colonization on indigenous diet and health* (\$4,000)
- 2013 SAA/NSF Scholarship for Archaeological Training for Native Americans: *San José de Moro Bioarchaeology Field School in Chepén, Peru* (\$5,000)

Research Experience

- 2018 Field Museum of Natural History, Chicago
Human osteological analysis, rehousing, and data management as the North American Biological Anthropology Graduate Intern
- 2017 Canadian Museum of History, Gatineau, Canada
Osteological analysis of individuals excavated from Boardwalk and Lachane sites, Prince Rupert, Canada for Ph.D. dissertation
- 2015- Dissertation research (in progress), University of Illinois at Urbana-Champaign, IL
Investigating human diet and the oral microbiome in ancestral and living Pacific Northwest Coast Indigenous communities using metagenomic and isotopic techniques
- 2015 Cooke Archaeology Laboratory, Smithsonian Tropical Research Institute, Panama City, Panama
Osteological analysis of human remains from Cerro Juan Dias, Cerro Mangote, and Sitio Sierra sites, collected samples for paleogenomic analysis of dental calculus
- 2015 Ancient DNA Laboratory, Research Center for Chinese Frontier Archaeology, Jilin University, Changchun, China
Investigated genetic population history of Bronze Age Jiayi Cun community using paleogenomic methods
- 2013 Sicán National Museum, Ferreñafe, Peru
Osteological analysis of Middle Sicán skeletal remains for M.A. thesis
- 2012 Complex for Forensic Anthropology Research, Southern Illinois University Carbondale, IL
Assisted in research site maintenance and decomposition research project data collection (2012-14)

Conference Presentations and Published Abstracts

International Meetings

- 2017 Bader AC, Carbaugh AE, Bardill J, Malhi RS. Advancing the ethics of paleogenomics: Shifting the status quo on community consultation. Invited podium: Learning from the Ancestors: Collaborative work in the management and repatriation of archaeological human remains. *Chacmool Archaeology Conference*. Calgary, AB, CAN.
- 2015 Bader AC. NSF EAPSI: Using Ancient DNA to Reconstruct Genetic Ancestry at Jiayi Cun, Xinjiang. *China-U.S. Young Scientists Forum*. Invited podium. Beijing, China.

National Meetings

- 2018 Bader AC, Martin S, Malhi RS. Politics of collaborative research with Indigenous communities: Moving beyond the framework of community engagement. Invited podium: Biological Anthropology and Dialogue with Diverse Publics (AAAS sponsored). *American Association of Physical Anthropologists*. Austin, TX.
- 2017 Bader AC, Malhi RS. How subjectivity strengthens research: Developing new approaches to anthropological genetics in the Pacific Northwest. Invited podium: Beyond visibility: How academic diversity is transforming scientific knowledge. *American Association of Physical Anthropologists*. New Orleans, LA.
- 2017 Malhi RS, Bader AC, Rogers MP. Community-based approaches to genomic research with Indigenous peoples in North America. Invited poster: What is a 'Vulnerable Population'? Agency, intimacy, and protections in Biological Anthropology. *American Association of Physical Anthropologists*. New Orleans, LA.
- 2017 Bader AC, Allen JM, Malhi RS. Metagenomic analysis of pre-contact diet using ancient dental calculus from Prince Rupert Harbour, British Columbia. Invited podium: Tsimshian archaeology: 50 years of research and 10,000 years of history. *Society for American Archaeology*. Vancouver, BC, CAN.
- 2015 Bader AC, Malhi RS. A case study on the multiple components of ancestry-related identity. Invited poster: Thinking anthropologically about genetics. *American Association of Physical Anthropologists*. St. Louis, MO.
- 2014 Bader AC, Shimada I. An unusual Late Middle Sicán sacrifice, Peru: An osteobiographical approach. *Society for American Archaeology*. Contributed poster. Austin, TX.

Regional Meetings and Student Symposia

- 2014 Bader AC. Molecular Anthropology and the Racialization of Native American DNA. *Illinois Summer Research Symposium*. Invited podium. Urbana, IL.
- 2013 Bader AC, Dabbs GR. Differential Diagnosis of a Lytic Bone Lesion on an Articular Rib End from Sicán, Peru. *Midwest Bioarchaeology and Forensic Anthropology Association*. Contributed podium. Columbus, OH.
- 2012 Bader AC. Mummy Dearest: Questions of Identity in Modern and Ancient Xinjiang Uyghur Autonomous Region. *Northwest Anthropological Conference*. Contributed podium. Pendleton, OR.

Academic Service

- 2018 Selected Fellow, Ethics Committee
American Association of Physical Anthropologists
- 2014- Executive Council, Graduate Anthropology Student Association
University of Illinois at Urbana-Champaign, IL
- 2015 Fundraising Coordinator, Association of Biological Anthropologists
University of Illinois at Urbana-Champaign, IL

Professional Affiliations

American Association of Physical Anthropologists

Lambda Alpha National Honors Society

Paleopathology Association

Society for American Archaeology