



Ashly N. Romero

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RESEARCH INTERESTS

Skeletal morphology, stress, fluctuating asymmetry, growth and development, aging, geometric morphometrics

EDUCATION

Expected 2023 **Doctor of Philosophy**, Anthropology
University of Arkansas
Dissertation title: *Understanding the genetic and environmental influence on developmental instability in rhesus macaques*; Advisor: Claire Terhune, PhD
Language competency: Spanish | Microcertificate: Preparing for the Professoriate

2018 **Master of Arts**, Anthropology
University of Arkansas
Thesis title: *A comparison of craniofacial asymmetry in Gorilla gorilla gorilla and Pan troglodytes troglodytes*; Advisor: Claire Terhune, PhD

2016 **Bachelor of Arts**, Anthropology (*Magna cum laude*)
California State University – Long Beach (CSULB)
Undergraduate research advisor: Theodore Stankowich, PhD

RELEVANT EMPLOYMENT

2022-Present **Graduate Research Assistant**
MicroCT scanning technician
Department of Anthropology, University of Arkansas

2016-2022 **Graduate Teaching Assistant**
Introduction to Biological Anthropology Lab
Department of Anthropology, University of Arkansas

Fall 2021 **Online Instructor and Course Developer**
Introduction to Biological Anthropology
Department of Anthropology, University of Arkansas

Summer 2021 **Graduate Teaching Fellow**
Human Gross Anatomy
Congdon School of Health Sciences, High Point University, NC

2018-2019 **Graduate Assistant Coordinator**
Introduction to Biological Anthropology Lab
Department of Anthropology, University of Arkansas

2017-2018 **Departmental Intern**
Environmental Health and Safety, University of Arkansas

PUBLICATIONS

In prep **Romero AN, Turcotte CA, Dickinson E, Terhune CE.** *Age during hurricane impacts fluctuating asymmetry in Cayo Santiago macaques.*

In prep **Romero AN, Willmore K, Terhune CE.** *Influence of pathology on fluctuating asymmetry in olive baboons.*

- 2022 **Romero AN**, Mitchell DR, Cooke SB, Kirchhoff CA, Terhune CE. *Craniofacial fluctuating asymmetry in gorillas, chimpanzees, and macaques*. American Journal of Physical Anthropology 177(2):286-299.
- 2019 Yoakum CB, **Romero AN**, Moore C, Douglas E, Gallagher K, Terhune C. *Sex and height influence neck posture when using electronic handheld devices*. Clinical Anatomy 32(8):1061-1071.
- 2017 **Romero AN**, Herlin M, Finnälä M, Korkalainen M, Håkansson H, Viluksela M, Sholts SB. *Skeletal and dental effects on rats following in utero/lactational exposure to the non-dioxin-like polychlorinated biphenyl PCB 180*. PloS One 12(9):e0185241
- 2017 Stankowich T, **Romero AN**. *The correlated evolution of antipredator defences and brain size in mammals*. Proceedings of the Royal Society London, Biology 284(1846):20161857

GRANTS AND AWARDS

- 2022 SEC Emerging Scholars Program (\$17,000)
- 2022 Summer Institute in Statistical Genetics (SISG) Scholarship (\$900)
- 2022 American Association for Anatomy Graduate Poster Award Finalist (\$400)
- 2021 P.E.O. Scholar Award (\$20,000)
- 2021 ARSC Graduate Dissertation Research Award (\$5,000)
- 2021 Graduate and Professional Student Congress Research Grant (\$1,500)
- 2020 Professional and Internship Grant Sponsorship (PIGS) Award (\$500)
- 2019 Arkansas Graduate Fellowship in Anthropology (\$8,500)
- 2018-2022 Distinguished Doctoral Fellowship, University of Arkansas (\$22,000/year)
- 2018 Best Overall Presentation, Lambda Alpha Student Symposium, Wichita State University (\$100)
- 2018 Professional Awareness, Advancement, and Development (PAAD) fellow, National Science Foundation (NSF)
- 2017 Honorable Mention, Graduate Research Fellowship Program, NSF
- 2016 College of Liberal Arts Outstanding Graduate, California State University – Long Beach (CSULB)
- 2016 Outstanding Baccalaureate Student in Anthropology, CSULB
- 2016 Award for Excellence in Anthropology, CSULB
- 2015 NSF REU, National Museum of Natural History
- 2012-2016 President's Scholars' Program, CSULB (\$61,000)

PUBLISHED ABSTRACTS (*Notes mentees)

- Submitted **Romero AN**, Terhune CE. *Skeletally mature individuals that experienced hurricane Hugo exhibit increased craniofacial fluctuating asymmetry*. Invited symposium: Coming to the Caribbean - Celebrating 85 Years of Rhesus macaques at Cayo Santiago; New Endeavors of Non-Human Primate Research. American Association of Biological Anthropologists.
- Submitted **Romero AN**, Yoakum CB. *Examining the relationship between inferior alveolar nerve volume and dietary properties in primates*. American Association for Anatomy.
- 2022 **Romero AN**, Terhune CE. *The role of social group and matriline on fluctuating asymmetry in female rhesus macaques*. American Association for Anatomy. FASEB J 36(S1).
- 2022 **Romero AN**, Mitchell DR, Terhune CE. *Cranial fluctuating asymmetry and reproductive fitness in the Cayo Santiago rhesus macaques*. American Association of Biological Anthropologists. AJBA 177(S73):154.
- 2022 Bowland LA, **Romero AN**, Kelly CD. *Old questions, new methods: testing hypotheses for canine dimorphism in the evolution of anthropoid primates using phylogenetic analyses*. American Association of Biological Anthropologists. AJBA 177(S73):20.
- 2021 Barton AB*, Knox O*, **Romero AN**, Terhune CE. *Analysis of inter- and intraobserver error when scoring tooth wear in the Cayo Santiago macaques*. Undergraduate symposium. American Association of Physical Anthropologists.

- 2020 **Romero AN**, Mitchell DR, Terhune CE. *Analysis of landmark variation in the study of cranial fluctuating asymmetry*. American Association of Physical Anthropologists. AJPA 171(S69):238.
- 2019 **Romero AN**, Kirchhoff CA, Cooke SB, Terhune CE. *Examining fluctuating asymmetry in *Macaca fascicularis**. American Association of Physical Anthropologists. AJPA 168(S68):207.
- 2019 Kirchhoff CA, Cooke SB, **Romero AN**, Terhune CE. *Covariation among dental wear, craniofacial morphology, and pathologies in *Macaca fascicularis**. American Association of Physical Anthropologists. AJPA 168(S68):126.
- 2018 Moore CL, Yoakum CB, **Romero AN**, Douglas E, Gallagher K, Terhune C. A *Biomechanical Analysis of Cervical Spine Posture using Geometric Morphometrics*. American Association for Anatomy. FASEB J 32(S1).
- 2018 **Romero AN**, Terhune CE. *A comparison of fluctuating asymmetry models in non-human primate crania*. American Association of Physical Anthropologists. AJPA 165(S66):230.
- 2016 **Romero A**, Sholts S, Håkansson H, Viluksela M. *Craniofacial and dental effects shown in rats following in utero/lactational exposure to 2,2',3,4,4',5,5'-heptachlorobiphenyl (PCB-180)*. American Association of Physical Anthropologists. AJPA 159(S62):272.

INVITED PRESENTATIONS

- 2020 *Cranial asymmetry in Primates: What is it and how does it get there?* Paradigm in Biological Anthropology Research Series, Delivered remotely to graduate students in India; November 1, 2020. Seminar.
- 2018 *Fluctuating asymmetry in gorillas and chimpanzees*. Arkansas Tech University, Russellville, AR; October 10, 2018. Seminar.

RESEARCH EXPERIENCE

- 2021 Morphological measurement, external microbiome swabbing, and face photography of live macaques, occasional necropsy assistant, bone categorization and packaging, and 3D surface scanning
Cayo Biobank Research Unit, Dr. Michael Montague, Puerto Rico
- 2019 3D surface scanning, specimen photography, and macaque colony visit
Laboratory of Primate Morphology (CPRC), Terry Kensler, Puerto Rico
- 2017 3D surface scanning and specimen photography
Cleveland Museum of Natural History, Lyman Jellema, Cleveland, OH
- 2017, 2019 Pleistocene survey and collections identification/organization team member
Co-directed by Dr. Claire Terhune, Dr. Sabrina Curran, and Dr. Alexandru Petculescu
Oltet River Valley, Romania
- 2017 3D surface scanning and scan editing (Flexscan & Geomagic)
Terhune Lab, Dr. Claire Terhune, University of Arkansas
- 2017-2020 Zoological collections management
University Collections Facility, Dr. Mary Suter and Dr. Nancy McCartney (since passed), University of Arkansas
- 2016 Collection organization and database creation
NAGPRA Lab, Cindi Alvitre, California State University – Long Beach (CSULB)
- 2014-2016 Undergraduate Researcher
Mammal Lab, Dr. Ted Stankowich, CSULB
- 2015 Natural History Research Experience
REU Internship, Dr. Sabrina Sholts, NMNH, Smithsonian Institution
- 2015 Mammal specimen preparation
Vertebrate Zoology Lab, Suellen Jacob, CSULB
- 2014 Laboratory Intern
Forensic investigation, Dr. John Wang, Glasgow Caledonian University

SERVICE AND OUTREACH

Journal Reviewer

Reviewer for articles in *American Journal of Biological Anthropology*, *Evolutionary Biology*, *Journal of Anatomy*, and *Emerging Topics in Life Sciences*. 2020-Present

Graduate and Professional Student Congress

Served as an at-large representative for the Fulbright College of Arts and Sciences and co-chair/grant reviewer for the Research Council. 2019-2020, 2021-2022

Diversity and Inclusion Committee

Serve as graduate student representative on the Department of Anthropology Diversity and Inclusion Committee to help draft and implement a diversity, equity, and inclusion plan for the department. 2019-2021

American Association of Physical Anthropology Meetings

Student volunteer at the annual American Association of Physical Anthropology meetings. 2018-Present

Peculiar Primates

Blog series that features a different primate in each post with the aim to increase scientific literacy and engage the public in biological anthropology. 2018-2019

Primatweeps Curator

Collective twitter account that uses games and polls to engage the wider public in primatology (#PrimatePlaytime, #PrimateTrivia, #GuessThePrimate, #MonkeyOrNot, etc.). 2019-Present

Open House Events

Open lab or open collection events with the University of Arkansas Department of Anthropology and Arkansas Archaeological Survey that engage the wider community in scientific research. 2016-2019

Girls in STEM

Introduce concepts in biological anthropology to girls in the Northwest Arkansas community and share scientific research via booths at various girls in STEM/STEAM events. 2016-Present

K-12 Workshops

Hold workshops at local elementary schools in which students complete a laboratory exercise that demonstrates how the concepts they are currently learning in math or science translate into biological anthropology. 2016-Present

PROFESSIONAL TRAINING

2022	Evolutionary Quantitative Genetics Workshop University of Washington
2022	Summer Institute of Statistical Genetics (SISG) University of Washington <ul style="list-style-type: none"> • Fundamentals of Population Genetics • Quantitative Genetics • Association Mapping: GWAS and Sequencing Data
2020	Analysis of Organismal Form short course with Dr. Chris Klingenberg University of Manchester
2019	CITI Program <ul style="list-style-type: none"> • Conflicts of interest • Humanities Responsible Conduct of Research • Research with data or laboratory specimens • Working with the IACUC
2018	Taphonomic Analysis Workshop Terhune Lab, Dr. Sabrina Curran, University of Arkansas

PROFESSIONAL MEMBERSHIPS

American Association of Physical Anthropologists

American Association for Anatomy

Dental Anthropology Association

Society for the Study of Evolution
Sigma Xi
Lambda Alpha

Last updated: 11/29/22