



Ashly N. Romero

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EDUCATION

- 2023 **Doctor of Philosophy**, Anthropology
University of Arkansas
Dissertation title: *Understanding the environmental and genetic influence on fluctuating asymmetry and developmental instability in primates*
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*
- 2016 **Bachelor of Arts**, Anthropology (*Magna cum laude*)
California State University – Long Beach (CSULB)

RESEARCH INTERESTS

Primate cranial morphology and evolution; comparative anatomy and morphology; fluctuating asymmetry and developmental instability; stress; ontogeny; geometric morphometrics

PUBLICATIONS

- In prep **Romero AN**, Terhune CE. *Pathology and secular-related changes in fluctuating asymmetry detected in olive baboons*. International Journal of Primatology.
- In prep **Romero AN**, Yim A, Terhune CE. *Heritability and evolvability of fluctuating asymmetry in rhesus macaques and olive baboons*. American Journal of Biological Anthropology.
- 2023 **Romero AN**, Dickinson E, Turcotte CM, Terhune CE. *Skeletal age during hurricane impacts fluctuating asymmetry in Cayo Santiago rhesus macaques*. Ecology and Evolution 13(8):310425.
- 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, Finnilä 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)

2023	Romero AN , Dickinson E, Turcotte CM, Terhune CE. <i>Skeletally mature individuals that experienced hurricane Hugo exhibit decreased craniofacial fluctuating asymmetry</i> . 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. AJBA 180(S75):151.
2023	Romero AN , Yoakum CB. <i>Examining the relationship between inferior alveolar nerve volume and dietary properties in primates</i> . American Association for Anatomy. Dev Dyn 252(7):884.
2022	Romero AN , Terhune CE. <i>The role of social group and matriline on fluctuating asymmetry in female rhesus macaques</i> . American Association for Anatomy. FASEB J 36(S1).
2022	Romero AN , Mitchell DR, Terhune CE. <i>Cranial fluctuating asymmetry and reproductive fitness in the Cayo Santiago rhesus macaques</i> . 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. <i>Analysis of inter- and intraobserver error when scoring tooth wear in the Cayo Santiago macaques</i> . Undergraduate symposium. American Association of Physical Anthropologists.
2020	Romero AN , Mitchell DR, Terhune CE. <i>Analysis of landmark variation in the study of cranial fluctuating asymmetry</i> . American Association of Physical Anthropologists. AJPA 171(S69):238.
2019	Romero AN , Kirchhoff CA, Cooke SB, Terhune CE. <i>Examining fluctuating asymmetry in Macaca fascicularis</i> . American Association of Physical Anthropologists. AJPA 168(S68):207.
2019	Kirchhoff CA, Cooke SB, Romero AN , Terhune CE. <i>Covariation among dental wear, craniofacial morphology, and pathologies in Macaca fascicularis</i> . 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

- 2023 *Introduction to Primates*. University of Minnesota, Delivered virtually to undergraduate students; February 15, 2023. Seminar.
- 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.

PROFESSIONAL TRAINING

- 2022 Evolutionary Quantitative Genetics Workshop
University of Washington
- 2022 Summer Institute of Statistical Genetics (SISG)
University of Washington
- 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
- 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

RELEVANT EMPLOYMENT

- 2023-Present **Postdoctoral Research Associate**
Clinical Anatomy Instructor
Department of Basic Medical Sciences, University of Arizona College of Medicine - Phoenix
- 2022-2023 **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

Summer 2021	Department of Anthropology, University of Arkansas Graduate Teaching Fellow Human Gross Anatomy
2018-2019	Congdon School of Health Sciences, High Point University, NC Graduate Assistant Coordinator Introduction to Biological Anthropology Lab
2017-2018	Department of Anthropology, University of Arkansas Departmental Intern Environmental Health and Safety, University of Arkansas

RESEARCH EXPERIENCE

2022-2023	Segmenting pulp, dentin, and enamel of microCT-scanned macaque teeth in Avizo to create surface models for shape analysis MICRO, Dr. Kathleen Paul, University of Arkansas
2021, 2023	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. 2018-2021

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

Primatweeps Curator

Collective twitter account that uses games and polls to engage the wider public in primatology (#PrimatePlaytime, #PrimateTrivia, #GuessThePrimate, #MonkeyOrNot, etc.). 2019-2022

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

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. 2016-2019

PROFESSIONAL MEMBERSHIPS

American Association for Anatomy

American Association of Biological Anthropologists

Dental Anthropology Association

Society for the Study of Evolution

Sigma Xi

Lambda Alpha

Last updated: 08/13/23