

CARRIE S. MONGLE

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EDUCATION

- Present **Stony Brook University**, Stony Brook, NY
Ph.D. Candidate in the Interdepartmental Doctoral Program in Anthropological Sciences
“Modeling hominin variability: The alpha taxonomy of *Australopithecus africanus*”
Advisor: Frederick Grine
Committee: FE Grine, JB Smaers, JG Fleagle, JB Rossie, WH Kimbel, PD Polly
- 2015 **Stony Brook University**, Stony Brook, NY
M.A., Anthropology; Advisor: Frederick Grine
- 2012 **University of Virginia**, Charlottesville, VA
BA, Archaeology with Distinction

EXTERNAL RESEARCH AWARDS

- 2016 **National Science Foundation** Doctoral Dissertation Improvement Grant (\$21,875):
“Modeling hominin variability: the alpha taxonomy of *Australopithecus africanus*” NSF BCS
1613401
- 2016 **Wenner-Gren Foundation** Dissertation Fieldwork Grant (\$10,360): “Modeling hominin
variability: the alpha taxonomy of *Australopithecus africanus*”
- 2015-2016 **Wenner-Gren Foundation** Research Grant (\$6,135): “The phylogenetic relationships of
Australopithecus sediba”
Project collaborator, PI David Strait

PEER-REVIEWED PUBLICATIONS

- 2017 Grine FE, Marean CW, Faith JT, Black W, **Mongle CS**, leRoux S, duPlessis A. Further human fossils
from the Middle Stone Age deposits at Die Kelders Cave 1, Western Cape Province, South Africa. *J
Hum Evol.* 109:70-78.
- 2017 Smaers JB, **Mongle CS**. 2017. On the accuracy and theoretical underpinnings of the multiple variance
Brownian motion approach for estimating variable rates and inferring ancestral states. *Biol J Linn Soc
Lond.* 121:229-238.
- 2016 Smaers JB, **Mongle CS**, Kandler A. 2016. A variable variance Brownian motion framework for the
estimation of ancestral states and variable rates. *Biol J Linn Soc Lond.* 118:78-94.
- 2015 **Mongle CS**, Wallace IJ, Grine FE. 2015a. Cross-sectional structural variation relative to midshaft
along hominine diaphyses. I. The forelimb. *Am J Phys Anthropol* 158:386–397.
- 2015 **Mongle CS**, Wallace IJ, Grine FE. 2015b. Cross-sectional structural variation relative to midshaft
along hominine diaphyses. II. The hind limb. *Am J Phys Anthropol* 158:398–407.

- 2014 Wallace IJ, Nesbitt A, **Mongle CS**, Gould ES, Grine FE. 2014. Age-related variation in limb bone diaphyseal structure among Inuit foragers from Point Hope, northern Alaska. *Arch Osteoporos* 9:202.
- 2014 Wallace IJ, Demes BB, **Mongle CS**, Pearson OM, Polk JD, Lieberman DE. 2014. Exercise-Induced Bone Formation Is Poorly Linked to Local Strain Magnitude in the Sheep Tibia. *PLoS One* 9:e99108

FORTHCOMING PUBLICATIONS

- In review* Fernández PJ, **Mongle CS**, Leakey L, Orr CM, Patel BA, Almecija S, Tocheri MW, Jungers WL. Functional morphology and evolution of the hominin forefoot. *Proc Natl Acad Sci*.
- In prep* **Mongle CS**, Nesbit A, Smaers J, Grine FE. Evidence that developmental processes shape macroevolutionary patterns.
- In prep* **Mongle CS**, Koenig A, Samonds KE, Smaers JB, Borries C. Costly teeth: gestation length in primates suggests that dentition is *not* expensive to produce.

NON PEER-REVIEWED PUBLICATIONS

- 2017 **Mongle CS**, Nishimura AC, Kling KJ, Lamb AR, Ekanayake-Weber M, de Vries D. Anthropologists get jazzed for science in New Orleans. *Evol Anthropol* 26:193-195. [News and Reviews Article]
- 2016 Perlman RF, Nishimura AC, **Mongle CS**, Kling K, Guevara EE, Arslanian K. 2016. Life's a peach for anthropologists in Atlanta. *Evol Anthropol* 25:81–83. [News and Reviews Article]
- 2014 Thompson NE, Cassalet S, Holowka NB, Perlman RF, **Mongle, CS**. 2014. Anthropology stampede in Calgary. *Evol Anthropol* 23: 85-87. [News and Reviews Article]
- Book reviews*
- In press* **Mongle, CS**. *The Quarterly Review of Biology: Evolution's Bite: A Story of Teeth, Diet, and Human Origins*. By Peter Ungar. Princeton (New Jersey): Princeton University Press. \$27.95. 248p. ISBN: 9780691160535. 2017.

PROFESSIONAL CONFERENCES

- 2018 **Mongle CS**, Strait DS, Grine FE. Phylogenetic implications of new craniodental character data for *Ardipithecus ramidus*. *Am J Phys Anthropol*. [Poster Presentation]
- 2018 Strait DS, **Mongle CS**, Grine FE. The systematics of robust australopiths. *Am J Phys Anthropol*. [Invited Symposium: The Forgotten Lineage(s): Paleobiology of Paranthropus]
- 2017 **Mongle CS**, Nesbitt A, Smaers JB, Grine FE. The developmental cascade biases rates of evolutionary change in the dentition. *Am J Phys Anthropol*. [Poster Presentation; **Awarded AAPA-AAA Prize**]
- 2017 Fernandez PF, **Mongle CS**, Patel BA, Tocheri MW, Jungers WL. Functional morphology and evolution of the early hominin forefoot. *Am J Phys Anthropol*. [Podium Presentation]

- 2016 **Mongle CS**, Koenig A, Samonds K, Smaers JB, Borries C. 2016. Expensive tissues and gestation length in primates. *Am J Phys Anthropol* S159:233. [Podium Presentation]
- 2015 **Mongle CS**, Nesbitt A, Grine FE. 2015. A re-examination of maxillary shape variation and the attribution of Early Pleistocene fossils to the genus *Homo*. *Am J Phys Anthropol* S60:228. [Poster Presentation]
- 2015 **Invited Participant**, AVAToL – Next Generation Phenomics for the Tree of Life Workshop. Sponsored by the National Science Foundation, Division of Environmental Biology, "Assembling, Visualizing, and Analyzing the Tree of Life" (DEB-1208256).
- 2014 **Invited Attendee**, Turkana Basin Institute Human Evolutionary Workshop: *Homo habilis*. Hosted by Richard Leakey.
- 2014 **Mongle CS**, Wallace, IJ, Grine FE. 2014. Diaphyseal Cross-sectional Variation in Extant Hominoid Humeri: Implications for Incomplete Hominid Fossils. *Am J Phys Anthropol* 153: 188-189. [Poster Presentation]
- 2014 Wallace IJ, Demes B, **Mongle CS**, Pearson OM, Polk JD, et al. 2014. Exercise-Induced Bone Formation Is Poorly Linked to Local Strain Magnitude in the Sheep Tibia. *Am J Phys Anthropol* 153: 264. [Poster Presentation]

TEACHING APPOINTMENTS

- 2017 **Course Director**, Human Gross Anatomy (ANAT-5001)
Lecture and laboratory instruction for dissection-based gross anatomy lab for occupational therapy graduate students
1 Semester; SUNY Downstate Medical Center
- 2016 **Laboratory Instructor**, Research Skills (ANP 204)
1 Semester, Stony Brook University
- 2012-2015 **Laboratory Instructor**, Human Anatomy (ANP 300)
Laboratory instruction for model-based anatomy lab for undergraduate students.
5 Semesters; Stony Brook University
- 2014 **Teaching Assistant**, Human Gross Anatomy (HBA 561)
Laboratory instruction for dissection-based gross anatomy lab for PA/PT/RT graduate students
1 Semester; Stony Brook University
- 2012 **Teaching Assistant**, How People Eat (ANP 260)
1 Semester; Stony Brook University

INVITED LECTURES

- 2017 “Hominins, Humans, and the Paleolithic Era”, University of Virginia, Charlottesville, VA

HONORS & ADDITIONAL FELLOWSHIPS

- 2017 **Outstanding Instructor in Anatomy Award**, SUNY Downstate Medical Center
- 2017 **Anatomy in Anthropology Award for Innovative Anthropological Research**, American Association of Anatomists and American Association of Physical Anthropologist
- 2012 – 2016 **W. Burghardt Turner Fellowship**, Stony Brook University
- 2014 – 2016 **NSF AGEP-T FRAME Fellowship**, Stony Brook University
- 2016 **NSF AGEP Conference Travel Award**, Stony Brook University
- 2016 **Turner Conference Travel Award**, Stony Brook University
- 2015 **Turner Summer Research Grant**, Stony Brook University
- 2014 **NSF AGEP Conference Travel Award**, Stony Brook University
- 2014 **Turner Conference Travel Award**, Stony Brook University
- 2013 **Turner Conference Travel Award**, Stony Brook University

PROFESSIONAL SERVICE

Ad-hoc Referee: Journal of Human Evolution

- 2017-2018 **IDPAS Executive Committee**, Department of Anthropology, Stony Brook University
- 2014-2015 **Masters Admissions Committee**, Department of Anthropology, Stony Brook University
- 2016 **Teaching Assistant Committee**, Department of Anthropology, Stony Brook University

COMMUNITY OUTREACH

- 2016 **STEP Anatomy Course.**
Instructor for cadaver-based anatomy introduction course to historically underrepresented and economically disadvantaged high school students.
- 2015-2016 **Center for Inclusive Education Mentor**
Mentor for junior graduate students in the Center for Inclusive Education Community of Student Mentors program, Stony Brook University.

TECHNICAL SKILLS

Programming Proficiency: R, BayesTraits, MrBayes, TNT, BEAST

Analytical: Phylogenetic comparative methods (e.g. OU models, macroevolutionary rate estimation), phylogenetic inference (Bayesian & parsimony), geometric morphometrics, multivariate statistics, Bayesian statistics

3D Visualization: Avizo, Geomagic

ADDITIONAL PROFESSIONAL PREPARATION

- 2017-2018 **Research Assistant**, Department of Anthropology, Stony Brook University
- 2016 **Research Assistant**, Department of Anatomy, Stony Brook University
 “Evolutionary Rates in Crocodylomorpha”, PI Alan Turner
- 2015 **Scientists Teaching Science Pedagogy Course**, STEM Education Solutions
- 2010-2012 **Research Assistant**, Chaco Research Archive, University of Virginia
- 2011 **Research Assistant**, National Museum of Archeology, Portugal
- 2011 **Survey Crew**, National Park Service, Chaco Canyon, New Mexico

PROFESSIONAL MEMBERSHIPS

- 2012-Present American Association of Physical Anthropologists