

ANNA J. RAGNI
Division of Anthropology
Smithsonian Institution, National Museum of Natural History
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OVERVIEW:

My research focuses on the interplay between ontogenetic development, locomotion, and skeletal morphology.

EDUCATION:

Richard Gilder Graduate School, American Museum of Natural History | New York, NY 2015-2019
Doctor of Philosophy: Comparative Biology
Dissertation: *The Ontogeny of Internal and External Bone in the Primate Hand and Foot*
Advised by Dr. William E.H. Harcourt-Smith and Dr. John Flynn

University of Arkansas | Fayetteville, AR 2012-2014
Master of Arts: Anthropology
Master's Thesis: *Effects of Instrumentation on Dental Microwear Textures: Reanalysis and Augmentation of an Early Hominin Sample*
Advised by Dr. Peter Ungar

Hendrix College | Conway, AR 2008-12
Bachelor of Arts: Sociology/Anthropology with an Anthropology emphasis
Overall GPA: 4.0, Graduated *summa cum laude* with Distinction
Rank: 1/319

HONORS & AWARDS

Peter Buck Postdoctoral Fellowship, "Life history and environmental correlates to mammalian trabecular bone" \$100,800 2019
Anatomy in Anthropology Prize for Exemplary Student Research \$250 2019
NSF DDRIG Fellowship, "Ontogenetic changes in primate manual and pedal trabecular architecture" \$19,432 2018
Richard Gilder Graduate School Sydney Anderson Travel Grant 2018
Richard Gilder Graduate School Graduate Fellowship 2015
RGGS NSF Integrative Graduate Education and Research Traineeship Fellowship 2015-17
University of Arkansas Graduate Fellowship 2012
Member of Phi Beta Kappa 2012
Hendrix College Dean's List 2008-2012

PEER-REVIEWED PUBLICATIONS:

Ragni, Anna J. 2020. Trabecular architecture of the capitate and third metacarpal through ontogeny in chimpanzees (*Pan troglodytes*) and gorillas (*Gorilla gorilla*). *Journal of Human Evolution* 128:e102702. <https://doi.org/10.1016/j.jhevol.2019.102702>

Ragni, Anna J., Teaford, M, Ungar, Peter S. 2017. A Comparative Study of Pitheciid Dental Microwear. *American Journal of Primatology* 79(12), e22697. <https://doi.org/10.1002/ajp.22697>

IN PREPARATION OR REVIEW

Ragni, Anna J. *In Review.* Trabecular ontogeny of the hand and foot in a primate sample. *Journal of Anatomy.*

Ragni, Anna J. *In Prep.* The ontogeny of shape and integration in primate hands and feet. *American Journal of Physical Anthropology.*

Ragni, Anna J. *In Prep.* Trabecular bone and shape analysis of the *Homo naledi* third metatarsal. *Journal of Human Evolution.*

PUBLISHED ABSTRACTS

Ragni, Anna J. 2019. Locomotor ontogeny and trabecular architecture within the hands and feet of great apes. *American Journal of Physical Anthropology* 166:S68.

Kasl, Colin, **Ragni, Anna J.**, Harcourt-Smith, William E.H. 2019. An analysis of the trabecular morphology of the *Homo naledi* talus, and its inferred functional implications. *American Journal of Physical Anthropology* 166:S68.

Palmer, Jenna E., **Ragni, Anna J.**, Chirchir, H. 2019. Effect of volume of interest placement and size in trabecular bone quantification. *Federation of American Societies for Experimental Biology* 33:1.

Ragni, Anna J. 2018. Chimpanzee (*Pan troglodytes*) and gorilla (*Gorilla gorilla*) manual trabecular architecture over ontogeny. *American Journal of Physical Anthropology* 165:S66.

Ragni, Anna J., Webb, Nicole M., Harcourt-Smith, William E.H. 2017. Ontogenetic changes in trabecular architecture: A pilot study of chimpanzee (*Pan troglodytes*) manual and pedal elements. *American Journal of Physical Anthropology* 162:S64.

Ragni, Anna J., Teaford, M, Ungar, Peter S. A molar microwear texture analysis of pitheciid primates. 2014. *American Journal of Physical Anthropology* 153:S58.

Ungar, Peter S, **Ragni, Anna J.**, DeSantis, Larisa. 2014. Comparability of Dental Microwear Texture Data Between Studies. *Journal of Vertebrate Paleontology, Program and Abstracts 2014*: 244.

PRESENTATIONS:

Ragni, Anna J (2019, March) *Locomotor ontogeny and trabecular architecture within the hands and feet of great apes*. Podium presentation at the American Association of Physical Anthropology meeting, Cleveland, OH.

Ragni, Anna J (2018, March) *The Evolution of Hominin Bipedalism*. Podium presentation at the New York Paleontological Society, New York, NY.

Ragni, Anna J (2016, February) *Dental Microwear Texture Analysis: A method for understanding primate paleodiet*. Podium presentation at the Metropolitan Society of Natural Historians, New York, NY.

Ungar, Peter S, **Ragni, Anna J.**, DeSantis, Larisa (2014, November) *Comparability of Dental Microwear Texture Data Between Studies*. Podium presentation at the Society of Vertebrate Paleontology Annual Meeting, Berlin, Germany.

Ragni, Anna J., Ungar, Peter S, DeSantis, Larisa, Armand, Sam (2014, October) *Dental Microwear Texture Analysis and Issues of Instrumentation*. Podium presentation at the American Society of Mechanical Engineers meetings, Gaithersburg, MD.

RELEVANT TRAINING:

Instructor, Youth Initiatives Program, American Museum of Natural History
Walk This Way – Science visualization course on hominin bipedalism Spring 2018

Teaching Assistant, Icahn School of Medicine, Mt. Sinai
Human Structures – Gross Anatomy Fall 2017

μCT Data Workshop, University of Texas
Led by Dr. Jessie Maisano Summer 2017

Wind River Basin 2016 Fieldwork Expedition, American Museum of Natural History
Led by Dr. Steven Chester and Dr. Chris Gilbert Summer 2016

Program Assistant, Smithsonian Institution National Museum of Natural History
Mentor: Dr. Briana Pobiner 2014-15
• Assistant to the Education and Outreach Coordinator in the Human Origins Program

Teaching Assistant, University of Arkansas | Fayetteville, AR
Introduction to Biological Anthropology 2012-14

SYNERGISTIC ACTIVITIES:

- Co-taught an eight-week course on data visualization techniques in biological anthropology to underrepresented city youth – Youth Initiatives Program, American Museum of Natural History January-April 2018

- Spoke to young students about how scientists study bones and fossil trackways – Adventures in Science program, American Museum of Natural History August 2018
- Taught evolutionary concepts to high school students enrolled in “The Real Paleodiet” course through a presentation entitled, “Dental Microwear Texture Analysis: A method for understanding primate paleodiet” – LANG program, American Museum of Natural History February 2017
- Served as a guest lecturer for undergraduate biology seminar students presenting a talk entitled, “The Evolution of Human Bipedalism” – Fairleigh Dickinson University February 2017
- Presented a lecture entitled “Human Bipedalism 101” at the New York Lady Science Forum – BioDigital Technologies January 2017

MENTORSHIP

Sarah Elston, Columbia University
 Tessa Garces, Tufts University
 Emma Bates, Stanford University

Summer 2018-Spring 2019
 Summer 2018
 Spring 2016-Fall 2017

MEMBERSHIPS & ORGANIZATIONS:

New York Consortium in Evolutionary Primatology
 American Association of Anatomists
 Anthropological Honor Society
 American Anthropological Association
 American Association of Physical Anthropologists
 Association for Women in Science