ANNA J. RAGNI

Department of Biological Sciences
California State University, Los Angeles
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OVERVIEW:

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

APPOINTMENTS:

California State University, Los Angeles | Los Angeles, CA — 2020-Current
NSF Postdoctoral Researcher, Department of Biology
Supervisor: Dr. Ashley Heers

National Museum of Natural History | Washington, DC — 2019-2020
Peter Buck Postdoctoral Fellow, Department of Anthropology
Supervisor: Dr. Sabrina Sholts

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

NSF SBE Postdoctoral Research Fellowship, "Musculoskeletal modeling and simulation of hominin bipedal locomotion" $138,000	2020
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 — Spring 2018
Walk This Way – Science visualization course on hominin bipedalism

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

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

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

Program Assistant, Smithsonian Institution National Museum of Natural History — 2014-15
Mentor: Dr. Briana Pobiner

- Assistant to the Education and Outreach Coordinator in the Human Origins Program

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

SYNERGISTIC ACTIVITES:

- 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 Summer 2018-Spring 2019
Tessa Garces, Tufts University Summer 2018
Emma Bates, Stanford University 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
Phi Beta Kappa