

Amanda J. Fuchs

curriculum vitae

CONTACT INFORMATION

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Twitter: <https://twitter.com/MandyMonkey02?s=03>

ResearchGate: https://www.researchgate.net/profile/Amanda_Fuchs

Web:

Comparative Primatology Laboratory, University of Massachusetts, Amherst:

<https://www.kamilarlab.org/people>

Kasanka Baboon Project, Kasanka National Park, Zambia:

<http://kasankababoonproject.com/meet-the-team/>

EDUCATION

University of Massachusetts, Amherst

PhD student (Autumn 2017- present)

Movement ecology and gut microbiome diversity in Kinda baboons (*Papio kindae*)

Advisor: Jason M. Kamilar, PhD

Hunter College, City University of New York

M.A. in Anthropology (August 2017) *magna cum laude*

M.A. thesis topic: Ecological Niche Modeling of the Genus *Papio*

Advisor: Christopher C. Gilbert, PhD

Stony Brook University, State University of New York

B.A. in Anthropology (May 2012)

Dean's List Autumn 2010, Spring 2011, Spring 2012

Suffolk County Community College, State University of New York

A.A. in Social Sciences & History (May 2010)

Dean's List Autumn 2008- Spring 2010

PROFESSIONAL APPOINTMENTS

Graduate Teaching Assistant, University of Massachusetts, Amherst, MA

Teaching Assistant- Archaeology of Ancient Civilizations (Autumn 2021)

Teaching Assistant – Introduction to Archaeology: Humans Past and Present (Spring 2021)

Instructor – Human Origins and Variation (Winter 2020-2021)

Laboratory Coordinator (Autumn 2020)

Undergraduate Advising Assistant (Autumn 2020)

Teaching Assistant- Human Origins and Variation (Spring 2020)

Teaching Assistant- Human Origins and Variation (Autumn 2019)

Teaching Assistant- Human Origins and Variation (Spring 2019)

Teaching Assistant- Human Origins and Variation (Autumn 2018)

Teaching Assistant- Human Origins and Variation (Spring 2018)

Teaching Assistant- Archaeology of Ancient Civilizations (Autumn 2017)

PUBLICATIONS

Kitrinos CE, **Fuchs AJ**, Claypool CG, Gunson JA, & Kamilar JM. (2021). Primatology at the last meeting of the American Association of Physical Anthropologists. *Evolutionary Anthropology*. DOI - 10.1002/evan.21922

Fuchs AJ, Wilson TC, Kitrinos C, Kunaparaju A, & Bell RB. (2021). The sixth Annual Northeastern Evolutionary Primatologists (NEEP) meeting: Gone virtual!. *Evolutionary Anthropology*. DOI - 10.1002/evan.21879

Fuchs AJ, Kitrinos C, Costa CE. 2020. The fifth annual Northeastern Evolutionary Primatologists meeting at the University of Massachusetts, Amherst. *Evolutionary Anthropology*. DOI - 10.1002/evan.21817

Bell RB, **Fuchs AJ**, Rowan J, Zintel TM, Dorshorst T, Zamora AJ. 2019 The 88th Annual Meeting of the American Association of Physical Anthropologists in Cleveland, Ohio. *Evolutionary Anthropology*. DOI - 10.1002/evan.21780

Fuchs AJ, Bell RB, Lazagabaster I, Zamora AJ. 2018. The 87th Annual Meeting of the American Association of Physical Anthropologists in Austin, Texas. *Evolutionary Anthropology*. DOI - 10.1002/evan.21592

Fuchs AJ, Gilbert CC, Kamilar JM. 2018. Ecological niche modeling of the genus *Papio*. *American Journal of Physical Anthropology*. DOI - 10.1002/ajpa.23470

Fuchs AJ, Zamora AJ, Zintel TM. 2018. The third annual Northeastern Evolutionary Primatologists (NEEP) meeting at Yale University. *Evolutionary Anthropology*. DOI - 10.1002/evan.21574

GRANTS & AWARDS

Armelaog-Swedlund Graduate Research Award, University of Massachusetts, Amherst

Awarded \$500 (Spring 2021) for "Microbiome diversity in Kinda baboons and their water resources."

National Science Foundation, Doctoral Dissertation Research Improvement Grant

Awarded \$17,987 (Spring 2021) for "The effects of food and water on Kinda baboon movement ecology and gut microbiome diversity."

The Department of Anthropology Travel Grant, University of Massachusetts, Amherst

Awarded \$100 (Spring 2021) for presentation of "Microbiome diversity in Kinda baboons and their water resources" at the 90th annual American Association of Physical Anthropologists conference.

Leakey Foundation Research Grant

Awarded \$14,999 (Winter 2020) for "The effects of food and water on Kinda baboon movement ecology and gut microbiome diversity."

Graduate School Dissertation Fieldwork Grant, University of Massachusetts, Amherst

Awarded \$5,000 (Winter 2020) for "The effects of food and water on Kinda baboon movement ecology and gut microbiome diversity."

The Department of Anthropology Travel Grant, University of Massachusetts, Amherst

Awarded \$300 (Spring 2020) for presentation of "Movement ecology of Kinda baboons (*Papio kindae*) in

Kasanka National Park, Zambia: A preliminary study” at the 89th annual American Association of Physical Anthropologists conference.

Natural History Collections Summer Research Scholarship, University of Massachusetts, Amherst
Awarded \$4,000 (Spring 2019) for “The effects of habitat heterogeneity and semi-permanent water sources on Kinda baboon (*Papio kindae*) decision making and gut microbiome diversity.”

The Department of Anthropology Travel Grant, University of Massachusetts, Amherst
Awarded \$400 (Spring 2019) for presentation of “The phylogeny of baboon social organizations” at the 88th annual American Association of Physical Anthropologists conference.

The Department of Anthropology Summer Pre-dissertation Research Fellowship, University of Massachusetts, Amherst
Awarded \$3,000 (Spring 2018) for “How does habitat type and consuming free-standing water influence Kinda baboon (*Papio kindae*) gut microbiomes?”

Natural History Collections Summer Research Scholarship, University of Massachusetts, Amherst
Awarded \$4,000 (Spring 2018) for “How does habitat type and consuming free-standing water influence Kinda baboon (*Papio kindae*) gut microbiomes?”

Armelagos-Swedlund Graduate Research Award, University of Massachusetts, Amherst (Honorable Mention)
Awarded \$500 (Spring 2018) for “Derived codon substitution in the Catechol-O- methyltransferase (COMT) gene may have implications for behavioral variation hamadryas baboons (*Papio hamadryas*).”

The Richard B. Woodbury Travel Award, University of Massachusetts, Amherst
Awarded \$500 (Spring 2018) for presentation of “Derived codon substitution in the Catechol-O- methyltransferase (COMT) gene may have implications for behavioral variation hamadryas baboons (*Papio hamadryas*)” at the 87th annual American Association of Physical Anthropologists conference.

The Department of Anthropology Travel Grant, University of Massachusetts, Amherst
Awarded \$400 (Spring 2018) for presentation of “Derived codon substitution in the Catechol-O- methyltransferase (COMT) gene may have implications for behavioral variation hamadryas baboons (*Papio hamadryas*)” at the 87th annual American Association of Physical Anthropologists conference.

The Department of Anthropology Research and Training Program, Hunter College, City University of New York
Awarded \$2,000 (Spring 2016) for, "Preliminary nutritional ecology studies and route planning in hamadryas baboons (*Papio hamadryas*) during the wet season in Awash National Park, Ethiopia."
Declined funding because logistical issues could not allot for more students at the research site at the time.

PROFESSIONAL PRESENTATIONS

American Association of Physical Anthropologists

Abstract/Poster (April 2021)

Fuchs AJ, Kamilar JM. Microbiome diversity in Kinda baboons and their water resources. *American Journal of Physical Anthropology*. Suppl. 68.

American Association of Physical Anthropologists

Abstract/Poster (April 2020)

Fuchs AJ, Kamilar JM. Movement ecology of Kinda baboons (*Papio kindae*) in Kasanka National Park, Zambia: A preliminary study. *American Journal of Physical Anthropology*. Suppl. 67.

American Association of Physical Anthropologists

Abstract/Poster (April 2020)

Weyher AH, **Fuchs AJ**, Kamilar JM. Seasonal variation in diet and ranging patterns in Kinda baboons (*Papio kindae*). *American Journal of Physical Anthropology*. Suppl. 67.

Engaging Anthropology: 50th Anniversary Conference of Department of Anthropology at UMass Amherst

Podium (October 2019)

Fuchs AJ. How does habitat type and consuming free-standing water influence Kinda baboon (*Papio kindae*) gut microbiomes? University of Massachusetts, Amherst, MA. Oct. 6, 2019.

American Association of Physical Anthropologists

Abstract/Poster (March 2019)

Fuchs AJ, Kamilar JM. The phylogeny of baboon social organization. *American Journal of Physical Anthropology*. Suppl. 66.

American Association of Physical Anthropologists

Abstract/Poster (April 2018)

Fuchs AJ, Kamilar JM. Derived codon substitution in the Catechol-O-methyltransferase (COMT) gene may have implications for behavioral variation hamadryas baboons (*Papio hamadryas*). *American Journal of Physical Anthropology*. Suppl. 65.

American Association of Physical Anthropologists

Abstract/Poster (April 2017)

Fuchs AJ, Gilbert CC, Kamilar JM. Ecological niche modeling of the genus *Papio*. *American Journal of Physical Anthropology*. Suppl. 64.

Northeastern Evolutionary Primatologists

Podium (November 2016)

Fuchs AJ, Gilbert CC, Kamilar JM. Using ecological niche modeling to assess distribution and taxonomic diversity in the genus *Papio*. 2nd Meeting of Northeastern Evolutionary Primatology Group, New York, NY. Nov. 4, 2016

INVITED LECTURES

University of Massachusetts, Amherst

Guest Lecturer (October 2018). "Movement Ecology and Kinda baboon (*P. kindae*) Behavior" In: Human Origins and Variation (ANT 103)

University of Massachusetts, Amherst

Guest Lecturer (March 2020). "Ecological Niche Modeling and Baboon Conservation" In: Primate Conservation (ANT 397).

University of Massachusetts, Amherst

Guest Lecturer (October 2019). "Primate Feeding Ecology and Nutrition" In: Primate Behavior (ANT 317).

University of Massachusetts, Amherst

Guest Lecturer (November 2018). "Comparative Approaches and Site-Level Research on *Papio* species" In: First Year Seminar – The Human Species (ANT 191).

University of Massachusetts, Amherst

Guest Lecturer (October 2018). "Primate Ecology and Conservation" In: Human Origins and Variation (ANT 103)

University of Massachusetts, Amherst

Guest Lecturer (October 2018). "Primate Feeding Ecology and Nutrition" In: Primate Behavior (ANT 317).

University of Massachusetts, Amherst

Guest Lecturer (March 2018). "Briefing on Baboons" In: Human Origins and Variation (ANT 103).

CONTRIBUTING AUTHOR & SOCIAL MEDIA PUBLICATIONS

Author (October 2017 – present). Good for all news. *Jane Goodall Institute (JGI)*.

Fuchs AJ (in progress). Tentative title "Graduate Women in Primatology" Good for all news. *Jane Goodall Institute (JGI)*.

Fuchs AJ (October 2017). What a Halloween fright: the palm oil plight! In: Conservation, Good for all news. *Jane Goodall Institute (JGI)*. Editor, Sullivan A. <http://news.janegoodall.org/2017/10/27/5412/>

Author (October 2017-present). Comparative Primatology Laboratory. In: Blogs at Kamilar Lab.

University of Massachusetts, Amherst.

Kunaparaju A & **Fuchs AJ**. (in prep.) K

Fuchs AJ (October 2017). Trick-or-Treat, what's left for orangutans to eat?

<https://www.kamilarlab.org/single-post/2017/10/26/Trick-or-Treat-whats-left-for-orangutans-to-eat>

FIELD EXPERIENCE**Kasanka Baboon Project, Kasanka National Park, Zambia**

Principal Investigator (June 2018 & July 2019)

Pilot studies for dissertation research on how habitat type and consuming free-standing water influences Kinda baboon (*Papio kindae*) gut microbiomes and movement ecology.

Shinnecock Bay Restoration Program, Southampton, New York

Research Assistant (Summer 2014 & 2015)

Data collection responsibilities included collecting and categorizing fauna, flora, and water samples on the research vessel, as well as deckhand responsibilities.

Filoha Hamadryas Project, Awash National Park, Ethiopia

Field Manager (September 2012- June 2013)

Collected behavioral and biological data on a wild band of Hamadryas baboons (*Papio hamadryas*).

Processed samples in camps lab and organized data into documents, spreadsheets and logbooks.

Managed the projects remote research base upkeep and finances, including payroll. Communicated directly with the project's director abroad and local staff/volunteers regarding data requirements and camp affairs. Maintained a professional and productive work environment between the project, park

authorities, and local tribes (Afar & Kariyu) in a multilingual setting.

State Conservation and Rescue Archaeology Program (SCRAP), Jefferson, New Hampshire

Volunteer (June of 2011)

Trained in collecting, categorizing, and documenting artifacts from a Paleo-Indian site for cultural resource management (CRM) purposes in association with the New Hampshire Division of Historical Resources.

Turkana Basin Institute, Turkana, Kenya

Field-school Student (Spring 2011)

Office Intern (Autumn 2010)

Seatuck Environmental Association, Long Island, New York

Volunteer (Spring 2009 & 2010)

Surveyed Alewife (*Alosa pseudoharengus*) during migration upstream for conservation and restoration purposes.

LABORATORY EXPERIENCE

Comparative Primatology Laboratory at University of Massachusetts, Amherst

Principal Investigator (September 2018 – present)

Analysis of pilot study data samples from Kasanka National Park, Zambia, including Kinda baboon (*Papio kindae*) fecal samples for gut microbiome analysis, and water filter samples for water source microbial diversity analysis, using molecular biology techniques.

Nutritional Ecology Laboratory at Hunter College, City University New York

Research Assistant (January 2016- May 2016)

Performed nutritional assays on various flora samples to assess fats, protein, fibers, carbohydrates, tannins and other contents in primate food sources.

School of Marine and Atmospheric Sciences at Stony Brook University

Research Assistant (May 2014- October 2014)

Project goals consisted of understanding the impacts of climate change and hydroelectric power development on the fish communities of Lake Turkana, Kenya. Responsibilities included homogenizing, weighing, packaging and recording samples for stable isotope analysis ($\delta^{15}\text{N}$ and $\delta^{13}\text{C}$).

PROFESSIONAL SERVICES

Manuscript Reviewer (2018 - present)

American Journal of Primatology

International Journal of Primatology

Lives of Scientists, Shutesbury Elementary School, Shutesbury, Massachusetts

Gold Level Scientist (December 2020 – present)

This program matches a local scientist with a fifth-grade student to email weekly and meet with the student at the end. The fifth grader completes a project on the scientists work and presents it to their class. The scientist presents their research to the entire class as well.

Nyumba ya Masambiro Community Center, Ruarwe, Malawi

Scholarship Founder (Autumn 2015-present).

Developed and organize a non-profit scholarship program for vulnerable and orphaned children.

Environmental Consultant (2015-present).

Consulting the community on environmental concerns and sustainable methods.

Volunteer Teacher (March 2015-April 2015, January 2017-February 2017)

Taught Standard 8 environmental and social sciences, mathematics, physics, and English in a classroom setting. Tutored secondary school biology and mathematics on an individual or small group basis.

Developed new youth programs with local youth coordinator, including swimming and art lessons.

Assisted humanitarian doctors with physical, swimming and art therapy for a special needs' child in the village.

Undergraduate Anthropology Society at Stony Brook University

President (Autumn 2010 - Spring 2012)

Vice-President (Spring 2010)

Treasurer (Autumn 2010)

Responsibilities included managing the societies funding and duties with student government as well as organizing events and guest speakers for weekly meetings.

Amnesty International "Week of Awareness" at Suffolk County Community College, SUNY

Volunteer (Spring 2009 & 2010)

Responsibilities included promoting humanitarian causes and educating fellow students on human rights violations worldwide.