**Amanda K. Rowe**

Institute for the Conservation of Tropical Environments, SBS Building 2nd Floor, Room N-203,

Stony Brook University, Stony Brook, NY 11794-4364, Tel:+1-720-210-4481,

 E-mail: amanda.rowe@stonybrook.edu

**EDUCATION**

**PhD, Anthropology, Interdepartmental Doctoral Program in Anthropological Sciences**

August 2017 to present, in progress (PhD Candidate)

Stony Brook University, Stony Brook, New York, 11794

**MA, Anthropology**

August 2017 to March 2020

Stony Brook University, Stony Brook, New York, 11794

**MSc, Primate Behavior and Ecology**

September 2015 to June 2017

Central Washington University, 400 E University Way, Ellensburg, WA, 98926

**BS, Environmental and Organismal Biology (*summa cum laude)***

September 2010 to December 2013

Fort Lewis College, 1000 Rim Drive, Durango, CO, 81301

**THESES AND ADVISORS**

***Theses***

2017 *Collective decision making in Tibetan macaques: how followers affect the rules and efficiency of group movement*. MSc Thesis, Central Washington University

2013 *The effect of invasive shrub* Tamarix *on the bottom up ecology of a riparian ecosystem, Big Gypsum Valley, Colorado*. Undergraduate Senior Thesis, Fort Lewis College

***Advisors***

PhD advisors\* and committee (Stony Brook University): Dr. Patricia Wright\*, Dr. Andreas Koenig\*, Dr. John Fleagle, Dr. Elizabeth Clare, Dr. Amy Lu

Masters advisor\* and committee (Central Washington University): Dr. Lixing Sun\*, Dr. Lori Sheeran, Dr. Steven Wagner

Undergraduate advisor (Fort Lewis College): Dr. Deborah Kendall

**APPOINTMENTS**

***Teaching Appointments***

*Instructor of Record*

Fall 2020 ANP 120 Introduction to Biological Anthropology (Online)

Fall 2020 ANP 475 Undergraduate Teaching Practicum

*Teaching Assistant*

Spring 2020 ANP 120 Introduction to Biological Anthropology (Online)

Fall 2019 ANP 101 Human Biology

Spring 2019 ANP 120 Introduction to Biological Anthropology

Fall 2018 ANT 290 Science and Technology in Ancient Society

Spring 2018 ANT 377 Animal Tool Use

Fall 2017 ANP 120 Introduction to Biological Anthropology

Fall 2015/2016 STEP 101 Science Talent Expansion Program 101

Winter 2016/2017 STEP 102 Science Talent Expansion Program 102

Spring 2016/2017 STEP 103 Science Talent Expansion Program 103

Fall 2011 BIO 207 General Zoology

Fall 2013 BIO 305 Entomology

September 2012 to December 2013 TUTOR STEM Courses, Fort Lewis College

***Board Appointments***

December 2020-Present Board Member WISE Tropics, Inc.

***Research Appointments***

January 2023 to present Research Assistant Anthropology Stony Brook University

January 2021 to April 2021 Project Development Intern Planet Madagascar

June 2020 to August 2020 Research Assistant ICTE Stony Brook University

April 2015 to September 2015 Soils Technician Northern Arizona University

July 2014 to January 2015 Intern Out of Africa Wildlife Park

May 2014 to September 2015 Arthropod Technician Colorado Plateau Museum of Arthropod Biodiversity

September 2011 to March 2012 Herbarium Assistant Fort Lewis College

**GRANTS, FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS**

***Grants***

*External Sponsors*

2022 Re: wild: “Understanding the patterns and drivers of natural resource exploitation for effective conservation strategies of eight lemur species in Zombitse-Vohibasia National Park, Madagascar”, $10,000

2021 Idea Wild: “Using community ecology to drive conservation strategies of *Mirza coquereli*, *Phaner pallescens*, *Microcebus murinus*, and *Cheirogaleus medius* of Southwestern Madagascar”, $1,500

2021 Re: wild: “Understanding the patterns and drivers of natural resource exploitation for conservation strategies of eight lemur species in Zombitse-Vohibasia National Park, Madagascar”, $5,000

2020 The Leakey Foundation: “Arthropod consumption and its role in coexistence of Malagasy lemurs”, $14,976

2020 National Science Foundation: “Interspecific competition, niche partitioning, and community structure of primates”, $26,872

2020 Rowe Wright Primate Fund: “Interspecific competition and niche partitioning as driving forces of the community structure of cheirogaleid lemurs in Southwestern Madagascar”, $5,000

2019 Rowe Wright Primate Fund: “Preliminary investigations of population density, abundance, and community dynamics of *Microcebus murinus, Cheirogaleus medius, Mirza coquereli,* and *Phaner pallescens* in Zombitse-Vohibasia National Park, Madagascar”, $5,000

2019 Sigma Xi: “Preliminary investigations of population density, abundance, and community dynamics of *Microcebus murinus, cheirogaleus medius, Mirza, coquereli,* and *Phaner pallescens* in Zombitse-Vohibasia National Park, Madagascar, $1,000

2018 American Society of Primatologists: “Implementing molecular methods to understand ecosystem energy flow and nutritional ecology of mouse lemurs for optimized management strategies in Ranomafana National Park and Isalo National Park, Madagascar”, $1,500

2018 Animal Behaviour Society: “DNA barcoding and the race for conservation: Implementing novel methods to understand the nutritional ecology of *Microcebus rufus* for optimized management strategies in Ranomafana National Park, Madagascar”, $2,000

2018 Lemur Conservation Action Fund, “DNA barcoding and the race for conservation: Implementing novel methods to understand the nutritional ecology of *Microcebus rufus* for optimized management strategies in Ranomafana National Park and Manombo Special Reserve, Madagascar, $3,000

2018 Rowe Wright Primate Fund: “DNA barcoding and the race for conservation: Implementing novel methods to understand the nutritional ecology of *Microcebus rufus* for optimized management strategies in Ranomafana National Park, Madagascar”, $5,000

2017 Rowe Wright Primate Fund” Preliminary investigation of the nutritional ecology and gastrointestinal bacteria in *Propithecus edwardsi,* nutritional ecology of *Microcebus rufus* and arthropod communities in Ranomafana National Park, Madagascar, $5,000

2016 Prentice Foundation: “Collective decision making in Tibetan macaques: how followers affect the rules and efficiency of group movement”, $500

*Internal Sponsors*

2019 IDPAS, Stony Brook University: “Preliminary investigations of population density, abundance, and community dynamics of *Microcebus murinus, Cheirogaleus medius, Mirza, coquereli,* and *Phaner pallescens* in Zombitse-Vohibasia National Park, Madagascar”, $500

2018 Graduate Student Employment Union, Stony Brook University: “Implementing molecular methods to understand ecosystem energy flow and nutritional ecology of mouse lemurs for optimized management strategies in Ranomafana National Park and Isalo National Park, Madagascar”, $500

2013 School of Natural and Behavioral Sciences, Fort Lewis College: “The effect of invasive shrub *Tamarix* on the bottom up ecology of a riparian ecosystem, Big Gypsum Valley, Colorado”, $2,000

*Co-authored Funding for Non-governmental Organizations*

2022 World Land Trust. Awarded to Planet Madagascar for forest restoration and fire management in Ankarafantsika National Park, Madagascar. Co-authored by Travis Steffens and Amanda K. Rowe. 366,823,000 MGA ($92,051) over 3 years.

***Fellowships***

*External Sponsors*

2020 Fulbright U.S. Student Program. “Community dynamics of night-active lemurs in Zombitse-Vohibasia National Park, Madagascar

2016 NSF East Asia Pacific Institute Fellowship (established track as NSF PI): “Understanding the maintenance of cohesion in social groups through the investigation of how followers affect collective decision making during group movement in Tibetan macaques”

*Internal Sponsors*

2023 Stony Brook University F. James Rohlf Endowed Graduate Fellowship in Anthropology

2022 Stony Brook University Faculty-Staff Dissertation Fellowship

2017 Stony Brook University Graduate Council Fellowship

***Academic Scholarships***

2015-2016 Gary Hansen Scholarship, Central Washington University

2012-2013 Ted and Lee Ann Compton Scholarship, Fort Lewis College

2010-2013 Presidential Scholarship, Fort Lewis College

***Awards and Honors*:**

2013 Student Marshall of 2013 Graduating Class, Fort Lewis College

2010-2013 Top Environmental Biology Student, Fort Lewis College

2010-2013 Dean’s List, Fort Lewis College

**PUBLICATIONS AND PRESENTATIONS**

***Publications***

ORCID: [0000-0001-8840-0014](https://orcid.org/0000-0001-8840-0014)

Google Scholar Profile: <https://scholar.google.com/citations?hl=en&user=INDZUB0AAAAJ>

\* *Indicates equal contribution*

Donohue, M. E., Hert, Z., Karrick, C., Rowe, A. K., Wright, P., Randriamanandaza, L., Zakamanana, F., Nomenjanahary, S., Everson, K., Weisrock, D. Lemur gut microeukaryotic community variation is not associated with host phylogeny, diet, or habitat. Manuscript submitted for publication.

Donohue, M. E., Rowe, A. K., Kowalewski, E., Hert, Z. L., Karrick, C. E., Randriamanandaza, L. J., Zakamanana, F., Nomenjanahary, E. S., Andriamala, R. Y., Everson, K. M., Horrall, A. D., Moe, L., Wright, P. C., Weisrock, D. W (2022). Significant effects of host dietary guild and phylogeny in wild lemur gut microbiomes. *ISME Communications,* 2(1):1-10. <https://doi.org/10.1038/s43705-022-00115-6>.

Martin, L. D., Rowe, A. K., Nomenjanary, E. S., Ridgway, Z. M., Wright, P. C., Deppe, A. M (2022). A population survey of sympatric cheirogaleids in southwestern Madagascar. *African Journal of Ecology,* 60:336-343. <https://doi.org/10.1111/aje.12960>.

Rowe, A. K., Donohue, M. E., Clare, E. L., Drinkwater, R., Koenig, A., Ridgway, Z. M., Martin, L. D., Nomenjanahary, E. S., Zakamanana, F., Randriamanandaza, L. J., Rakotonirina, T. E., Wright, P. C. (2021). Exploratory analysis reveals arthropod consumption in 10 lemur species using DNA metabarcoding. *American Journal of Primatology,* 83(6): e23256.<https://doi.org/10.1002/ajp.23256>.

Pang, K. H\*., Rowe, A. K.\*, Sheeran, L. K.\*, Xia, D. P. Sun, L., Li, J. H. (2021). Sexual Interference Behaviors in Male Adult and Subadult Tibetan Macaques (*Macaca thibetana*). *Animals,* 11(3):663. <https://doi.org/10.3390/ani11030663>.

Martin, L. D., Rowe, A. K., Nomenjanahary, E. S., Montaño, S. K., Wright, P. C., Deppe, A. M (2021). Population

estimates of Hubbard’s sportive lemur (*Lepilemur hubbardorum*) at Zombitse-Vohibasia National Park, Madagascar. *Folia primatologica,* 92(1):70-78. <https://doi.org/10.1159/000512559>.

Rowe, A.K., Donohue, M.E., 2022. Lemurs: Madagascar’s Endemic Primates. In: DellaSala, D.A., Goldstein, M.I. (Eds.), Imperiled: The Encyclopedia of Conservation, vol. 1. Elsevier, pp. 194–204. <https://dx.doi.org/10.1016/B978-0-12-821139-7.00015-5>.

Kling, K. J., Rowe, A.K. (2020). Madagascar Forests and Shrublands. In D. A. DellaSala (Ed.), *Imperiled: The*

*Encyclopedia of Conservation.* Oxford, UK: Elsevier. <https://doi.org/10.1016/B978-0-12-821139-7.00001-5>.

Uhey, D., Rowe, A. K., & Kendall, D. (2020) Tamarisk alters arthropod composition, but has little negative effect

on arthropod richness and abundance in southwestern Colorado. *Southwestern Entomologist*, 45(3):585-600. <https://doi.org/10.3958/059.045.0301>.

Rowe, A. K, Li, J. H., Sun, L., Sheeran, L. K., Wagner, R. S., Xia, D. P., Uhey, D. A., Chen, R. (2018). Collective decision making in Tibetan macaques: How followers affect the rules and speed of group movement. *Animal Behaviour,* 146:51-61. <https://doi.org/10.1016/j.anbehav.2018.10.002>.

***Scholarly Presentations: With Published Abstracts***

April 18, 2020 Rowe, A. K., Donohue, M. E., Clare, E. L., Drinkwater, R., Koenig, A., Ridgway, Z. M., Martin, L. D., Nomenjanahary, E. S., Zakamanana, F., Randriamanandaza, L. J., Rakotonirina, T. E., Wright, P. C. Arthropod consumption in lemurs: An exploratory analysis using DNA metabarcoding. *American Journal of Physical Anthropology* 171 (S69): 240. <https://onlinelibrary.wiley.com/doi/pdf/10.1002/ajpa.24023> (Conference canceled)

***Scholarly Presentations: Without Published Abstracts***

November 9, 2019 Rowe, A. K., Donohue, M. E., Clare, E. L., Drinkwater, R., Koenig, A., Ridgway, Z. M., Martin, L. D., Nomenjanahary, E. S., Zakamanana, F., Randriamanandaza, L. J., Rakotonirina, T. E., Wright, P. C. Exploratory analysis identifies arthropod consumption in ten lemur species using DNA metabarcoding. Northeastern Evolutionary Primatologists Meeting, University of Massachusetts, Amherst, Massachusetts, USA.

August 22, 2018 Rowe, A. K., Sun, L., Sheeran, L., Wagner, S. Li, J. H., Xia, D. P., Chen, R., Wright, P. Collective decision making in Tibetan macaques: How followers affect the rules and speed of group movement. International Primatological Society Congress, Nairobi, Kenya.

April 2013 Rowe, A. K. The effect of invasive shrub *Tamarix* on the bottom up ecology of a riparian ecosystem, Big Gypsum Valley, Colorado. Natural and Behavioral Sciences Symposium, Fort Lewis College, Colorado, USA.

March/February 2014 Rowe, A. K., Uhey, D. A., Kendall, D. The effect of invasive shrub *Tamarix* on the bottom up ecology of a riparian ecosystem, Big Gypsum Valley, Colorado. *Tamarix* Coalition River Crossing’s Conference, Grand Junction, Colorado, USA.

February 2013 Rowe, A. K., Uhey, D. A. Kendall, D. The effect of invasive shrub *Tamarix* on the bottom up ecology of a riparian ecosystem, Big Gypsum Valley, Colorado. Front Range Ecology Symposium, Colorado State University, Colorado, USA.

***Invited Talks***

January 2020 Lemurs and Lorises Graduate Class, Central Washington University, Washington, USA: “Lemurs: Madagascar’s Endemic Primates”.

December 2019 Human Biology Undergraduate Class, Stony Brook University, New York, USA: “Ecology and the Environment”

May 2019 Introduction to Bioanthropology Undergraduate Class, Stony Brook University, New York, USA: “Evolution of the Brain and Language”

February 2018 Animal Tool Use Undergraduate Class, Stony Brook University, New York, USA: “Primates”

September 2017 Introduction to Biological Anthropology Undergraduate Class, Stony Brook University, New York, USA: “Group Living and Mating Systems”

January/December 2013 Native Plant Society, Durango, Colorado, USA: “The effect of invasive shrub *Tamarix* on the bottom up ecology of a riparian ecosystem, Big Gypsum Valley, Colorado”

**RESEARCH ADVISING**

2022-present Fifaliana Andriamanantena, Doctoral Student, University of Antananarivo, research development, funding, field mentorship (ZVNP), analyses/write-up advising

2022-present Isabel Arcusa, Masters student, Stony Brook University, research development, data provision, analyses/write-up advising

2022 Talia Buchman, Undergraduate student, at large, funding, fieldwork mentorship (ZVNP)

2019-2020 Anna Bockhaus, Masters student, Stony Brook University, Research development, grant writing advising, funding, and fieldwork mentorship (ZVNP)

2019-2022 Luke Martin, Masters/Doctoral student, Australian National University, Research development, grant writing advising, funding, fieldwork mentorship (ZVNP), analyses/write-up advising

2018- present Eva Stela Nomenjanahary, Masters/Doctoral Student, University of Antananarivo, research development, grant writing advising, funding, field mentorship (ZVNP), analyses/write-up advising

**RESEARCH EXPERIENCE**

January 2023-Present Stony Brook University, “Dominance hierarchies among female primates: variability in despotism and implications for socioecological models”, Supervisor Dr. Andreas Koenig

July 2020- Present Stony Brook University, “Understanding the patterns and drivers of natural resource exploitation for effective conservation strategies of eight lemur species in Zombitse-Vohibasia National Park, Madagascar”, Supervisors Dr. Patricia Wright and Dr. Andreas Koenig

January 2019- Present Stony Brook University, “Interspecific competition and niche partitioning as driving forces of the community structure of cheirogaleid lemurs in Southwestern Madagascar”, Supervisors Dr. Patricia Wright and Dr. Andreas Koenig

Dec 2018-Jan 2022 Stony Brook University, “Preliminary investigations of population density, abundance, and community dynamics of *Microcebus murinus*, *Cheirogaleus medius*, *Mirza coquereli*, and *Phaner pallescens* in Zombitse-Vohibasia National Park, Madagascar”, Supervisor Dr. Patricia Wright

April 2018-Dec 2018 Stony Brook University, “DNA barcoding and the race for conservation: Implementing novel methods to understand the nutritional ecology of *Microcebus rufus* for optimized management strategies in Ranomafana National Park and Isalo National Park, Madagascar”, Supervisor Dr. Patricia Wright

June 2017-Dec 2018 Stony Brook University, **“**Preliminary investigations of the nutritional ecology and gastrointestinal bacteria in two lemur species and arthropod communities in Ranomafana National Park, Madagascar”, Supervisor Dr. Patricia Wright

Sep 2015-Sep 2018 Central Washington University, “Collective decision making in Tibetan macaques: how followers affect the rules and efficiency of group movement”, Supervisor Dr. Lixing Sun

May 2013- Dec 2014 Fort Lewis College, “The effect of invasive shrub *Tamarix* on the bottom up ecology of a riparian ecosystem, Big Gypsum Valley, Colorado”, Supervisors Dr. Deborah Kendall and Dr. Erin Lehmer

May 2011-Dec 2014 Fort Lewis College, **“**Effect of invasive shrub *Tamarix* on arthropod communities in southwestern Colorado”, Supervisor Dr. Deborah Kendall

May-September 2011 Fort Lewis College, **“**Prevalence of *Sin Nombre* in *Peromyscus* sp*.* in southwest Colorado”, Supervisor Dr. Erin Lehmur

**CERTIFICATIONS**

***Teaching***

2020 CELT Online Teaching Certification, Stony Brook University, Stony Brook, NY, USA

***First Aid***

2021 Mental Health Wilderness First Aid, MHWFA, British Columbia, Canada

2021 Wilderness First Aid, Adirondack Wilderness Medicine, Saratoga Springs, NY, USA

**SERVICE, COMMUNITY, AND VOLUNTEER WORK**

***Service***

March 2023 Fulbright Friday applicant advising panelist

March 2023-Present Interdepartmental Doctoral Program in Anthropological Sciences DEI Committee

August 2022-Present Interdepartmental Doctoral Program in Anthropological Sciences PhD Admissions Committee

August 2019-August 2020 Interdepartmental Doctoral Program in Anthropological Sciences Publications Manager, Stony Brook, NY, USA

August 2018-June 2019 Secretary, Behavioral Ecology Group, Stony Brook University, Stony Brook, NY, USA

August 2018-August 2019 Interdepartmental Doctoral Program in Anthropological Sciences Presentation Database

 Manager, Stony Brook, NY, USA

August 2017-August 2017 Graduate Student Employment Union Interdepartmental Doctoral Program in

 Anthropological Sciences Department Mobilizer, Stony Brook, NY, USA

June 2016-June 2017 President, Primate Awareness Network, Central Washington University, Ellensburg, WA, USA

***Volunteer Work and Community Outreach***

2020 Unitarian Universalist Fellowship at Stony Brook technical and logistics advisor for remote Sunday services over Zoom

2020 Last Chance Animal Rescue Dog Foster

2020 Distance learning during COVID-19. “Meet an Anthropologist” Zoom sessions with K-12 science classes.

2020 Women in Science and Engineering, Stony Brook University, Stony Brook, NY: Instructor for advanced WISE undergraduate student lab rotations in arthropod collection, curation, and identification

2020 Long Island Science and Engineering Fair, Long Island, NY: Volunteer judge for a competition of science and engineering for local high school students

2015-2016 Center for Science and Math Excellence, Central Washington University, Stony Brook, NY: STEM outreach to K-12 students

2015-2017 Chimpanzee Sanctuary Northwest, Cle Elum, WA, USA: Husbandry of chimpanzees retired from biomedical research, education and community outreach

2011-2013 Animal Room, Fort Lewis College, Durango, CO, USA: Husbandry of reptiles, fish, and, education and community outreach

2010-2013 Wolfwood Refuge, Ignacio, Colorado, USA: Rescued wolf and wolf dog husbandry, education and community outreach

**MEMBERSHIPS**

*Active since*

2019 American Association of Biological Anthropologists

2017 American Society of Primatologists

2017 Society of Systematic Biologists

2017 Lepidopterists’ Society

2017 American Society of Mammalogists

2017 Animal Behaviour Society

2017 International Primatological Society

2015 Primate Awareness Network

2015 Graduate Student Association

2013 Tri Beta Biological Honor Society

2012 Phi Kappa Phi Honor Society