

Amanda N. Mancini

Curriculum Vitae

Department of Anthropology, The Graduate Center, 365 Fifth Avenue, New York, NY 10016
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RESEARCH INTERESTS

Landscape Genetics · Spatial Ecology · Remote Sensing · Conservation · Lemurs

EDUCATION

Fall 2016 City University of New York- The Graduate Center, New York, NY
(In Progress) Ph.D. Physical Anthropology
2014- 2016 City University of New York- Hunter College, New York, NY
M.A. Anthropology
2010-2014 Kalamazoo College, Kalamazoo, MI
B.A. Biology (*Magna Cum Laude*)

THESES

2016 **Graduate Thesis in Anthropology:** “Population genetic analysis of the critically endangered black-and-white ruffed lemur (*Varecia variegata*) in Ranomafana National Park, Madagascar” Advisor: Dr. Andrea L. Baden
2014 **Undergraduate Thesis in Biology:** “Effects of *Cladophora glomerata* on terrestrial shoreline plant species and the common shoreline species *Potentilla anserina*.” Advisor: Dr. E. Binney Girdler

RESEARCH GRANTS

2021 **National Science Foundation – Doctoral Dissertation Research Improvement Grant (\$25, 140; Co-PI)** “Multi-scale movement behavior of black-and-white ruffed lemurs (*Varecia variegata*)” PI and Advisor: Dr. Andrea L. Baden
2020 **American Society of Primatology (\$1,500)** “Fine-scale assessment of black-and-white ruffed lemur (*Varecia variegata*) population connectivity in the Ranomafana-Andringitra Corridor” Advisor: Dr. Andrea L. Baden
2020 **Primate Conservation, Inc. (\$3,900)** “Quantify the impacts of logging on forest structure using drone imagery and its influence on ruffed lemur movement and ranging” Advisor: Dr. Andrea L. Baden
2020 **Rolex Explorers Club Grant (\$10,000)** “Quantifying the impacts of logging on forest structure using drone imagery and its influence on ruffed lemur movement” Advisor: Dr. Andrea L. Baden
2020 **Lemur Conservation Action Fund (\$4,985)** “Assessing the influence of habitat quality on forest recolonization by ruffed lemurs (*Varecia variegata*) in Ranomafana National Park” Advisor: Dr. Andrea L. Baden

- 2019 **Primate Conservation, Inc. (\$2,450)** “Influence of habitat structure and resource availability on the fission-fusion social patterns of black-and-white ruffed lemurs (*Varecia variegata*)” Advisor: Dr. Andrea L. Baden
- 2019 **CUNY Graduate Center Doctoral Student Research Grant (\$870)** “Influence of anthropogenic activities on habitat structure and resource availability and their impacts on the fission-fusion social patterns of black-and-white ruffed lemurs (*Varecia variegata*)” Advisor: Dr. Andrea L. Baden
- 2016 **American Society of Primatology (\$1,000)** “Impact of landscape heterogeneity on the genetic structure of a critically endangered primate (*Varecia variegata*)” Advisor: Dr. Andrea L. Baden
- 2015 **American Society of Primatology (\$1,500)** “Impact of anthropogenic habitat fragmentation on the genetic diversity and structure of a critically endangered primate (*Varecia variegata*)” Advisor: Dr. Andrea L. Baden
- 2015 **Hunter College Department of Anthropology Research Training Grant (\$1,000)** “Impact of anthropogenic habitat fragmentation on the genetic diversity and structure of a critically endangered primate (*Varecia variegata*)” Advisor: Dr. Andrea L. Baden
- 2015 **Hunter College Master’s Thesis Support Grant (\$500)** “Impact of anthropogenic habitat fragmentation and loss on the genetic diversity and structure of a critically endangered primate (*Varecia variegata*)” Advisor: Dr. Andrea L. Baden
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AWARDS, HONORS, AND FELLOWSHIPS

- 2020 **City University of New York Graduate Center Writing Across the Curriculum Fellowship**
- 2020 **CUNY Graduate Center Provost’s Pre-Dissertation Research Fellowship (\$4,000)** “Quantify the impacts of logging on forest structure using drone imagery and its influence on ruffed lemur movement and ranging” Advisor: Dr. Andrea L. Baden
- 2019 **CUNY Graduate Center Provost’s Pre-Dissertation Research Fellowship (\$4,000)** “Influence of anthropogenic activities on habitat structure and resource availability and their impacts on the fission-fusion social patterns of black-and-white ruffed lemurs (*Varecia variegata*)” Advisor: Dr. Andrea L. Baden
- 2016-2017 **J. William Fulbright Fellowship (\$21,700)**
- 2016-present **National Science Foundation- Graduate Research Fellowship**
- 2016-2020 **City University of New York Graduate Center Fellowship**
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PUBLICATIONS

PEER REVIEWED ARTICLES

- Accepted* Westphal D, **Mancini AN**, Baden AL. Primate landscape genetics: A review and practical guide. Submitted to *Evolutionary Anthropology*.
- 2020 Morelli TL, Smith AB, **Mancini AN**, Balko EA, Borgerson C, Dolch R, Farris Z, Federman S, Golden CD, Holmes S, Irwin M, Jacobs RL, Johnson SE, King T, Lehman S, Louis EE Jr., Murphy A, Randriahaingo HNT, Randrianarimanana

- HL, Ratsimbazafy J, Razafindratsima OH, Baden AL. 2020. The fate of Madagascar's rainforest habitat. *Nature Climate Change*. DIO: 10.1038/s41558-019-0647-x.
- 2019 Baden AL, **Mancini AN**, Federman SF, Holmes SM, Johnson SE, Kamilar JM, Louis EE Jr, Bradley BJ. Anthropogenic pressures drive population genetic structuring across a Critically Endangered lemur species range. *Nature Scientific Reports*. 9: 16276.

IN PREP ARTICLES

- In prep* **Mancini AN**, Baden AL. Habitat degradation alters forest structure and reduces floristic diversity throughout the Ranomafana-Andringitra Corridor. For submission to *Landscape Ecology*.
- In prep* Chandrashekar A, **Mancini AN**, Pacioni C, Baden AL. Reconstructing the demographic history of Critically Endangered black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, Madagascar. For submission to *Biological Conservation*.

PUBLISHED ABSTRACTS

- 2020 Chandrashekar A, Pacioni C, **Mancini AN**, Morelli TL, and Louis EE. Evaluating pressures on Lemur demographic histories in Ranomafana National Park, Madagascar (Abstract). *American Journal of Physical Anthropology*, 171, Supplement 69, 48-49.
- 2019 **Mancini AN**, Morelli TL, Smith AB, Balko E, Borgerson C, Dolch R, Farris Z, Federmann S, Holmes S, Irwin M, Jacobs R, Johnson S, King T, Lehman S, Louis E, Murphy A, Ratolojanahary TH, Razafindratsima O, and Baden AL. 2019. Modeling *Varecia* current and future habitat in eastern Madagascar (Abstract). *American Journal of Physical Anthropology*. Supplement 68, 153.
- 2017 **Mancini AN**, Chandrashekar A, Baden AL. Population genetic analysis of black-and white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar. *Northeastern Evolutionary Primatologists*
- 2017 Chandrashekar A, **Mancini AN**, Baden AL. Reconstructing the demographic history of black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park. *Student Conference on Conservation Science – NY*
- 2017 **Mancini AN**, Chandrashekar A, Baden AL. Population genetic analysis of black-and white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar. *Student Conference on Conservation Science – NY*
- 2017 **Mancini AN**, Chandrashekar A, Baden AL. Population genetic analysis of black-and white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar. *American Society of Primatologists*
- 2017 Baden AL, **Mancini AN**, Federman S, Kamilar JM, Holmes SM, Johnson SE, Louis, EE Jr., Bradley BJ. Habitat degradation and proximity to villages explain genetic community structure in a Critically Endangered lemur species. *American Society of Primatologists*
- 2017 Diakiw LO, Raulo A, Lane A, **Mancini AN**, Amato KR, Tecot SR, Baden AL. Determinants of the adult microbiome: kinship, dispersal, and social relationships. *American Society of Primatologists*

- 2016 **Mancini AN** and Baden AL. Preliminary survey results of black-and-white ruffed lemurs (*Varecia variegata*) in the Ranomafana region, southeastern Madagascar. Joint meeting of the *American Society of Primatologists* and the *International Society of Primatologists*
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RESEARCH EXPERIENCE

FIELD RESEARCH

- 2019-present **Influence of habitat structure and resource availability on the fission-fusion social patterns of black-and-white ruffed lemurs (*Varecia variegata*)**
Ranomafana National Park, Madagascar
Conducted botanical transect surveys to characterize forest structure and resource availability across a disturbance gradient.
Advisor: Dr. Andrea Baden
- 2015-2017 **Habitat fragmentation and landscape genetics of black-and-white ruffed lemurs (*Varecia variegata*)**
Southeastern rainforest corridor, Madagascar
Collected fecal samples from *V. variegata* individuals and landscape data including botanical data from forests surveyed.
Advisor: Dr. Andrea Baden
- 2013 **Study of the effects of *Cladophora glomerata* on shoreline communities**
Central Michigan University Biological Station; Beaver Island, MI, USA
Monitored and maintained terrestrial plants and aquatic macroinvertebrates in microcosms as a factorial greenhouse design. Established line transect surveys for both terrestrial plants and aquatic macroinvertebrates. Advisor: Dr. E. Binney Girdler

LABORATORY RESEARCH

- 2015-2020 **Conservation genetics of black-and-white ruffed lemurs**
Primate Molecular Ecology Lab, CUNY: Hunter College, New York, NY
Extraction and amplification of DNA from fecal samples; Microsatellite genotyping; Real-time PCR. Advisor: Dr. Andrea Baden
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ORGANIZED WORKSHOPS

- 2020 Project Development and Early-Stage Grant Writing Workshop. Hosted by NYCEP Student Support Group. Role: Organizer and Presenter.
- 2020 Writing a Scientific Research Paper. Hosted by Human Biology Program, Hunter College. Role: Organizer and Presenter.
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SPEAKING ENGAGEMENTS

INVITED TALKS

- 2020 Field Methods in Primatology, Department of Anthropology, Hunter College
- 2019 Madagascar Study Abroad Program, Stony Brook University & Centre ValBio

- 2017 Field Methods in Primatology, Department of Anthropology, Hunter College
2017 Madagascar Study Abroad Program, Stony Brook University & Centre ValBio

PRESENTATIONS

- 2019 **Poster: American Association of Physical Anthropologists (AAPA), Cleveland, OH** “Synergy of Deforestation and Climate Change Projected to Eliminate Madagascar’s Rainforest Habitat in this Century”
- 2017 **Poster: Northeastern Evolutionary Primatologists (NEEP), Yale University, New Haven, CT** “Population genetic analysis of black-and white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar”
- 2017 **Poster: Student Conference on Conservation Science – NY (SCCSNY), New York, NY** “Population genetic analysis of black-and white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar”
- 2017 **Oral: American Society of Primatology (ASP), Washington D.C.** “Population genetic analysis of black-and white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar”
- 2016 **Poster: International Primatological Society (IPS), Chicago, IL** “Population genetic analysis of black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park”
- 2016 **Oral: Spring Anthropology Conference, Hunter College Department of Anthropology-** Awarded “Best Graduate Presentation in Physical Anthropology” “Population genetic analysis of the critically endangered black-and-white ruffed lemur (*Varecia variegata*) in Ranomafana National Park, Madagascar”
- 2015 **Oral: Spring Anthropology Conference, Hunter College Department of Anthropology-** Awarded “Best Graduate Presentation in Physical Anthropology” “Impact of anthropogenic habitat fragmentation and loss on the genetic diversity and structure of a critically endangered primate (*Varecia variegata*)”
- 2014 **Oral: Diebold Symposium, Kalamazoo College Department of Biology** “Effects of *Cladophora glomerata* on terrestrial shoreline plant species and the common shoreline species *Potentilla anserina*.”
- 2013 **Poster: Open House, Central Michigan University Biological Station** “Effects of *Cladophora glomerata* on the fluctuating shoreline ecotone of Beaver Island.”
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TEACHING EXPERIENCE

- 2018 – 2020 The Human Species (Teaching Assistant); Hunter College
2017 – 2020 Introduction to Human Evolution (Teaching Assistant); Hunter College
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STUDENTS ADVISED

UNDERGRADUATE STUDENTS

Lab

Daisy Oghosa Ogbeta	2019-present
Mayar Safwat	2019-present
Melissa-Maria Kulaprazhazhe	2019
Victoria Palone	2019

Emma Lee Gomez

2019

PROFESSIONAL AND ACADEMIC SERVICE

- 2020-present **Virtual volunteer lecturer**, Skype-a-Scientist
2019-present **Volunteer judge**, New York City Science and Engineering Fair (NYCSEF)
2018-present **Volunteer facilitator**, Hall of Human Origins Educational Lab, American Museum of Natural History
2018 **Grant proposal *ad hoc* reviewer**, Graduate Women in Science Club, Hunter College
2015-2016 **Treasurer**, Graduate Women in Science Club, Hunter College

Manuscript *ad hoc* reviewer

Folia Primatologica; Conservation Science and Practice; Conservation Biology

MEDIA COVERAGE

- 2019 Morelli et al. 2019. *Nature Climate Change*. DOI: 10.1038/s41558-019-0647-x.
– Oct. 26, 2020 – “In Madagascar, Endangered Lemurs Find a Private Refuge.” By Erik Vance. New York Times.
– Dec. 23, 2019 - "Climate change and deforestation could wipe out Madagascar's ruffed lemurs and rainforest in next 50 years, experts warn." By Kashmira Gander. Newsweek.
– Dec. 23, 2019 - "Madagascar's famous lemurs could lose their rainforest by 2080." By Erica Tennenhouse. National Geographic.
– Dec. 23, 2019 - "Madagascar's iconic ruffed lemurs could lose up to 93 per cent of their habitat by 2070 due to climate change and deforestation." By Ian Randall. Daily Mail.
– Dec. 23, 2019 - "Climate Change and Deforestation Could Decimate Madagascar's Rainforest Habitat By 2070." CUNY Graduate Center.
- 2019 Baden et al. 2019. *Nature Scientific Reports*. 9: 16276.
– Dec. 23, 2019 - "Lemurs are the world's most endangered mammals, but planting trees can help save them." By Andrea L. Baden. The Conversation.
- 2017 Study with the Best: CUNY and the Animal Kingdom – *CUNY TV*, May 28
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FILM CONSULTING

- 2016 **Scientific Consultant**, Burning Season, Producer: Jenny Halper
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SOCIETY MEMBERSHIPS

International Primatological Society
American Society of Primatologists
American Association of Physical Anthropologists
Association of Tropical Biology and Conservation

PROFESSIONAL REFERENCES

Dr. Andrea Baden

Assistant Professor, Anthropology
Hunter College
New York, NY 10065
Email: andrea.baden@hunter.cuny.edu
Phone: 212.396.6818

Dr. Ryan Raaum

Associate Professor, Anthropology
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Bronx, NY 10468
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Dr. Elizabeth Balko

Instructional Designer and Developer,
Center for Teaching and Innovation
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Dr. Mary Blair

Director, Biodiversity Informatics
Research Center for Biodiversity and
Conservation
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