

Beatriz Otero Jiménez, Ph.D.

Burnett Honors College

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EDUCATION

2019 Ph.D. Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI

2013 M.S. Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI

2011 B.S. Environmental Studies and Integrative Biology, University of Puerto Rico, San Juan, Puerto Rico

POSTDOCTORAL TRAINING

2022 Postdoctoral Scholar, Burnett Honors College, University of Central Florida, Orlando FL

2019-2021 Postdoctoral Associate, NIH - Institutional Research and Academic Career Development Award with Dr. Patricia Wright, Stony Brook University, Stony Brook NY

HONORS AND FELLOWSHIPS

Pending

NSF Biological Anthropology Research Grant (Sub-awardee)

Received

2022

Research Grant, Primate Conservation, Inc. Research Award, PCI, Charlestown RI

UCF Preeminent Postdoctoral Program, University of Central Florida, Orlando, FL

2021

Research Grant, Primate Conservation, Inc. Research Award, PCI, Charlestown RI

2019

NIH-Institutional Research and Academic Career Development Awards (IRACDA) Fellow

SUNY Stony Brook University, Stony Brook, NY

2018

Department of Ecology and Evolutionary Biology Research Block Grant, University of Michigan, Ann Arbor, MI

2017

Theodore Roosevelt Memorial Research Fund, American Museum of Natural History

Hinsdale & Walker Scholarship, Museum of Zoology, University of Michigan, Ann Arbor, MI

2016

Rufford Foundation Small Grant

Hinsdale & Walker Scholarship, Museum of Zoology, University of Michigan

Gilliam Fellowships for Advanced Study, Howard Hughes Medical Institute (2016 to 2019)

Rackham Graduate Student Research Grant, University of Michigan, Ann Arbor, MI

2015

Grants-In-Aid of Research, American Society of Mammalogists

Tinker Research Grant, Center for Latin American and Caribbean Studies, University of Michigan, Ann Arbor, MI

NASA MSU Professional Enhancement Award

2014

Rackham Graduate Student Research Grant, University of Michigan

Department of Ecology and Evolutionary Biology Research Block Grant, University of Michigan, Ann Arbor, MI

2013

Rackham Merit Fellowship (2013-2018), University of Michigan, Ann Arbor, MI

Michigan Predoctoral Training Program in Genetics (2013-2015), University of Michigan, Ann Arbor, MI

Department of Ecology and Evolutionary Biology Research Block Grant, University of Michigan, Ann Arbor, MI

2012

Rackham International Research Award, University of Michigan (Support for Master's Thesis), Ann Arbor, MI

Department of Ecology and Evolutionary Biology Research Block Grant, University of Michigan, Ann Arbor, MI

2009-2011

Undergraduate Mentoring in Environmental Biology, National Science Foundation, University of Puerto Rico, San Juan, Puerto Rico

Research Experience for Undergraduates, National Science Foundation, OTS La Selva, Costa Rica

Ecological Society of America Annual Meeting Travel Grant

RESEARCH EXPERIENCE

Landscape genetics of Madagascar's endangered primates. Postdoctoral research at Stony Brook University, in collaboration with Dr. Patricia Wright. (2019 - *ongoing*)

I am the project leader responsible for funding, data collection, analysis and manuscript preparation.

Effect of matrix composition in agroecosystems: assessing population structure in small mammals.

Ph.D. Research, University of Michigan Department of Ecology and Evolutionary Biology. Co-advised by: John Vandermeer, Ph.D. and Priscilla Tucker, Ph.D. (2013-2019)

I was the project leader, responsible for funding, data collection, analysis and manuscript preparation.

Effects of coffee management on the population structure of a common forest rodent (*Heteromys*

desmarestianus goldmani). M.S. Research, University of Michigan Department of Ecology and Evolutionary Biology. Co-advised by: John Vandermeer, Ph.D. and Priscilla Tucker, Ph.D. (2011-2013)

I was the project leader, responsible of securing funding, data collection, analysis and manuscript preparation

Landscape Resistance to Dispersal of a Common Poison Frog in the Lowlands of Northeastern

Costa Rica. Organization for Tropical Studies - Research Experience for Undergraduates, La Selva Biological Station, Costa Rica. Advised by: A.J. Nowakowski, Ph.D. (2010)

I was a co-leader in the project along with A.J. Nowakowski. I was responsible for part of data collection, analysis and manuscript preparation.

Effect of land-use history on the recovery of bird and amphibian communities in Puerto Rico.

Honors' Thesis Research. Institute of Tropical Ecosystems Studies, University of Puerto Rico (NSF - UMEB) Advised by: T.M. Aide, Ph.D. and A. Ramirez, Ph.D. (2009-2011)

I was the leader of the project, responsible for data collection, analysis and publication.

Automated Remote Biodiversity Monitoring Network (ARBIMON) laboratory, University of Puerto Rico. (2007-2011)

Experience in collecting bioacoustic data of birds and amphibians, species identification, and computer algorithm training for automated species detection with T.M. Aide, Ph.D. and M. Acevedo, Ph.D.

I was part of a team responsible for analyzing bioacoustic recordings and training the computer algorithm to identify bird and amphibian species.

FIELD EXPERIENCE

Experience conducting field research both individually and as part of a team, in remote areas internationally (Mexico, Costa Rica and Madagascar), and nationally (Puerto Rico and Michigan).

Examples of my experience include: species richness and abundance surveys, bioacoustic monitoring, trapping, mark and recapture, and specimen collection and preparation for genetic analysis.

PUBLICATIONS

Published

Nowakowski, A. J., **Otero Jiménez, B.**, Allen, M., Diaz-Escobar, M., Donnelly, M. A. 2013. Landscape resistance to movement of the poison frog, *Oophaga pumilio*, in the lowlands of northeastern Costa Rica. *Animal Conservation* 16: 188-197.

Otero Jiménez, B., Vandermeer, J., Tucker P.K. 2018. Effect of coffee agriculture management on the population structure of a forest dwelling rodent (*Heteromys desmarestianus goldmani*). *Conservation Genetics* 19: 495-499.

Otero Jiménez, B., Li, K., Tucker, P.K. 2020. Landscape drivers of connectivity for a forest rodent in a coffee agroecosystem. *Landscape Ecology*, 35(5), pp.1249-1261.

Wright, P. C., **Otero Jiménez, B.**, Rakotonirina, P., Andriananoely, D. H., Shea, A., Ratalata, B., & Razafimahaimodison, J. C. (2020). The Progressive Spread of the Vascular Wilt Like Pathogen of *Calophyllum* Detected in Ranomafana National Park, Madagascar. *Frontiers in Forests and Global Change*, 91.

Zhang, L., Ameca, E.I., **Otero Jiménez, B.**, Montaña, S.K., Shea, A., Kelly, T., Andrianoely, D. and Wright, P.C., 2022. Human-induced deforestation increases extinction risk faster than climate pressures: Evidence from long-term monitoring of the globally endangered Milne-Edward's sifaka. *Biological Conservation*, 274, p.109716.

In review

Otero Jiménez, B., Tucker P.K. Comparing the population structure of a forest dwelling rodent (*Heteromys desmarestianus goldmani*) in a coffee production region and a continuous forest. *Conservation Genetics*. *in review*

Otero Jimenez, B., Montaña S.K., Rothman R., Wright P.C. Biological surveys of a fragmented humid forest in the savannah of south-central Madagascar. *Conservation Science and Practice*

In preparation

Otero Jimenez, B., Perlman R., Borries C., Wright P.C. Long-term effects of group size and composition on the activity budgets of *Propithecus edwardsi* (2005-2019)

PRESENTATIONS (selected)

2023 Florida Primate Meeting, Lakeland, FL

Oral Presentation: Long-term effects of group size and composition on the activity budgets of *Propithecus edwardsi*

2019 Association for Tropical Biology and Conservation, Antananarivo, Madagascar

Oral Presentation: Comparing the patterns of population connectivity between a specialist and generalist rodent species in a coffee agroecosystem

2019 International Association for Landscape Ecology US Chapter Annual Meeting, Fort Collins, CO
S12 Conservation Innovation Using Landscape Genetics: Novel Approaches of Integrating Landscape Ecology and Population Genetics to Address Conservation Problems

Invited Speaker: Population connectivity of two tropical rodents in a coffee agroecosystem

2018 International Association for Landscape Ecology US Chapter Annual Meeting, Chicago, IL
Poster Presentation: Landscape Drivers of Population Structure of a Forest Rodent in a Coffee Agroecosystem

2018 Ecological Society of America, Annual Meeting New Orleans, LA

Organized Oral Session: Landscape Genetics: Interdisciplinary Approach to Understanding the Intersection between Landscape Ecology and Population Genetics - Co-organizer and Moderator

2017 Association for Tropical Biology and Conservation Merida, Mexico

Oral Presentation: Landscape drivers of dispersal for a tropical small mammal in coffee farms

2017 Ecological Society of America (ESA) Annual Meeting Portland, OR

Oral Presentation: Of mice and coffee: Identifying landscape drivers of dispersal for a tropical small mammal in coffee farms

2016 Association for Tropical Biology and Conservation Montpellier, France

Poster Presentation: Understanding the effects of coffee management intensity on the dispersal and connectivity of a tropical small mammal

2015 International Meeting International Association for Landscape Ecology, Portland, OR

S46 Landscape Genetics Across Space and Time: Contributions of Molecular-Genetic Approaches to Landscape-Ecological Applications

Invited speaker: Effects of agricultural intensification on the population structure *Heteromys desmarestianus*

2013 Ecological Society of America, Annual Meeting Minneapolis, MN

Oral presentation: Effect of matrix composition in agroecosystems: assessing population structure in *Heteromys* mice.

2012 Ecological Society of America, Annual Meeting Portland, OR

Poster presentation: Effects of accelerated succession on the saproxylic beetle community.

2011 Ecological Society of America (ESA) Annual Meeting Austin, TX

Poster presentation: Landscape Resistance to Dispersal of a Common Poison Frog in the Lowlands of Northeastern Costa Rica

TEACHING EXPERIENCE

2023 (Spring) Instructor: Honors Nutrition, Agriculture and Justice in the Food System, University of Central Florida, Orlando FL

2023 (Spring) Instructor: Honors Genetics, University of Central Florida, Orlando FL

2022 (Fall) Instructor: Honors Nutrition, Agriculture and Justice in the Food System, University of Central Florida, Orlando FL

2022 (Summer) Instructor: Honors Seminar *Primate Conservation*, University of Central Florida, Orlando FL

2022 (Spring) Instructor: Honors Seminar *Nutrition, Agriculture and Justice in the Food System*, University of Central Florida, Orlando FL

2021 Instructor: General Biology I, SUNY College at Old Westbury, Old Westbury, NY

2020 Co-Instructor: General Biology I, Brooklyn College, Brooklyn, NY

2019 Instructor: Science, Agriculture, and Social Justice (Community-Based Learning Course), LSA Residential College, University of Michigan, Ann Arbor, MI

2018 Graduate Teacher Certificate, University of Michigan, Ann Arbor, MI

2017 Graduate Student Instructor: Energy, Food and Environmental Justice (for non-majors), University of Michigan, Ann Arbor, MI

2017 Engaged Pedagogy Initiative Fellow, Community-Engaged Academic Learning, University of Michigan, Ann Arbor, MI

2015 Graduate Collections Assistant: Mammal Collection, Museum of Zoology, University of Michigan, Ann Arbor, MI

2011 to 2013 Graduate Student Instructor: Introductory Biology Laboratory, University of Michigan, Ann Arbor, MI

Pedagogical Training

2020

Scientist Teaching Science (2020), STEM Education Solutions

(<https://stem-k20.com/services/graduate-students-or-post-docs-in-stem-fields/scientists-teaching-science-online-course/>)

Online Teaching Certificate (2020), Center for Excellence in Learning and Teaching, Stony Brook University (<https://www.stonybrook.edu/celt/services/teaching/index.php>)

2019

Institute for Social Change, Rackham Graduate School, University of Michigan

(<https://rackham.umich.edu/professional-development/program-in-public-scholarship/institute-for-social-change/>). The institute provided information, guidance and practical experience on engaging and collaborating with community organizations in academic endeavors.

Graduate Teaching Certificate *completed*, Center for Research in Learning and Teaching, University of Michigan (<https://crlt.umich.edu/um.gtc>)

2018

Diversity Equity and Inclusion Certificate, Rackham Graduate School, University of Michigan (<https://rackham.umich.edu/professional-development/dei-certificate/>)

Intercultural Development Inventory Completed (<https://idiinventory.com/>)

2017

Teaching for Diversity and Inclusion Workshop, Center for Research on Learning and Teaching, University of Michigan (<http://www.crlt.umich.edu/events/dit-workshop>)

Engaged Pedagogy Initiative Fellow, Community Engaged Academic Learning, University of Michigan (<https://rackham.umich.edu/professional-development/program-in-public-scholarship/engaged-pedagogy-initiative/>)

ADDITIONAL TRAINING

2014 Landscape Genetics Spring School, University Göttingen, Germany (<https://lasig.epfl.ch/landscapegenetics>)

PROFESSIONAL SOCIETIES

- International Primatological Society
- Ecological Society of America
- American Society of Mammalogists
- Society for Conservation Biology
- International Association for Landscape Ecology
- Association for Tropical Biology and Conservation

SERVICE AND OUTREACH

2022-ongoing Volunteer Farmworker Association of Florida, Service Learning Collaborator

2020 - 2021 Judge Long Island Science and Engineering Fair (<https://www.lisef.org/>)

2012 - 2019 Co-organizer UM-Detroit BioBlitz Science Education Outreach Event

2017 - 2018 Graduate Affairs Committee, Department of Ecology and Evolutionary Biology, University of Michigan

2016 - 2019 Michigan DNA Day. Executive Committee Member: Recruitment Coordinator (<https://sites.google.com/view/midnaday>)

2014 - 2017 Diversity Committee, Department of Ecology and Evolutionary Biology, University of Michigan

2013 - 2019 Females Excelling More in Math, Engineering and the Sciences (FEMMES), University of Michigan Chapter. Executive Committee Member: Outreach Coordinator, After School Activities Coordinator (<https://www.femmes.studentorgs.umich.edu/>)

2011 - *ongoing* Strategies for Ecological Education, Diversity and Sustainability (SEEDS) Educational program of the Ecological Society of America – Mentor