Beatriz Otero Jiménez, Ph.D.
Institute for the Conservation of Tropical Environments
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EDUCATION

2006-2011 B.S. Environmental Studies and Integrative Biology**,** University of Puerto Rico, San Juan, Puerto Rico
2011-2013 M.S. Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI
2013-2019 Ph.D. Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI
2019 Awarded Doctoral Degree, Rodent population connectivity in coffee agroecosystems

POSTDOCTORAL TRAINING

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

MAJOR AREAS OF INTEREST

Biological dispersal, landscape connectivity, sustainable agriculture, biodiversity conservation, population genetics

HONORS AND FELLOWSHIPS

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

EXPERIENCE
Teaching
2021 Instructor: General Biology I, SUNY College at Old Wesbury, Old Wesbury, 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

Research
2019 - *ongoing* Landscape genetics of Madagascar's endangered primates. Postdoctoral research at Stony Brook University, in collaboration with Dr. Patricia Wright and Dr. Liliana Davalos. I am the project leader responsible for funding, data collection, analysis and manuscript preparation.

2013 - 2019 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.

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

2011 - 2013 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.
I was the project leader, responsible of securing funding, data collection, analysis and manuscript preparation

2010 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.
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.

2009 - 2011 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.
I was the leader of the project, responsible for data collection, analysis and publication.

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

Additional Experience
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/)
2018 Diversity Equity and Inclusion Certificate, Rackham Graduate School, University of Michigan (https://rackham.umich.edu/professional-development/dei-certificate/)
2018 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)

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

PUBLICATIONS

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, PC., **Otero Jiménez, B.**, Rakotonindrnina, P., Andrianoely, D., Shea, A., Ratalata B., Razafimahaimodison, JC. (2020) The progressive spread of the vascular wilt pathogen of Calophyllum paniculatum detected in Ranomafana National Park, Madagascar. Frontiers In Forests And Global Change *in press*

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*

PRESENTATIONS (selected)

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

PROFESSIONAL SOCIETIES

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

SERVICE AND OUTREACH

2020 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 to 2019 Michigan DNA Day. Executive Committee Member: Recruitment Coordinator (https://sites.google.com/view/midnaday)
2014 to 2017 Diversity Committee, Department of Ecology and Evolutionary Biology, University of Michigan

2013 to 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/)
2006 to 2020 Strategies for Ecological Education, Diversity and Sustainability (SEEDS) Educational program of the Ecological Society of America – Mentor