

Camille DeSisto

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EDUCATION

- 2020-Present Duke University, Durham, NC
PhD Candidate in Ecology, advisors: Dr. Charles Nunn, Dr. John Poulsen
Certificate in College Teaching
Expected graduation date: May 2025
- 2019-2020 US Fulbright Program, Guayaquil, Ecuador
Fulbright Student Researcher, Universidad Espiritu Santo
- 2015-2019 Harvard University, Cambridge, MA
B.A. in Integrative Biology, Cum Laude, High Honors within Major
Secondary in Environmental Science and Public Policy, Citation in Spanish

PUBLICATIONS

6. Poulsen, J., Maicher, V., Malinowski, H., **DeSisto, C.** Situating Defaunation in an Operational Framework to Advance Biodiversity Conservation. (2023) *BioScience*.
5. Golden, C. D., **DeSisto, C.M.M.**, Borgerson, C., Randriamady, H.J. Hunting and the consumption of wildlife in Madagascar. *In The New Natural History of Madagascar*. Goodman and Benstead eds. (2022) *Princeton University Press*.
4. **DeSisto, C.** & Herrera, J. Drivers and Consequences of Structure in Lemur-Plant Ecological Networks. (2022). *Journal of Animal Ecology*
3. Golden, C.D., Koehn, Z.J., Shepon, A., Passarelli, S..., **DeSisto, C....** Thilsted, S.H. Aquatic foods to nourish nations. (2021) *Nature*, 598(7880), 315–320.
2. **DeSisto, C.M.M.**, Park, D., Davis, C. C., Ramananjato, V., Tonos, J.M., Razafindratsima, O.H. (2020). An invasive species spread by threatened diurnal lemurs impacts rainforest structure in Madagascar, *Biological Invasions*, 22(9), 2845-2858.
1. Ramananjato, V., Rakotomalala, Z., Park, D., **DeSisto, C.**, Raelinjanakolona, N., Guthrie, N., Fenosoa, Z., Johnson, S., Razafindratsima, O.H. (2020). The role of nocturnal omnivorous lemurs as seed dispersers in Malagasy rainforests, *Biotropica*, 52(4), 758-765.

Data

- Golden, C.D., Koehn, J.Z., Vaitla, B., **DeSisto, C.**, Kelahan, H., Manning, K., Fiorella, K.J., Kjellevold, M., Thilsted, S.H. (2021). Aquatic Food Composition Database, Harvard Dataverse.
- Ramananjato, V., Rakotomalala, Z., Park, D., **DeSisto, C.**, Raelinjanakolona, N., Guthrie, N., Fenosoa, Z., Johnson, S., Razafindratsima, O.H. (2020). Data from: The role of nocturnal omnivorous lemurs as seed dispersers in Malagasy rain forests, v2, Dryad.

In Review/ In Revision/ Submitted/ In Prep. (PDF available upon request)

- DeSisto, C.M.M.**, Frappier-Brinton, T., Boos, E., Rasolofoson, R. Impacts of tourism on deforestation in protected areas across Madagascar. *In Revision in PNAS*.

- Molina-Moreira, N., Arias de López, M., Rodriguez, R., Medranda, P., Massuh, D., **DeSisto, C.** Evaluation of the damage caused by *Coccotrypes rhizophorae* in *Rhizophora* propagules along the Ecuadorian coast. *In Revision in Madera y Bosques.*
- DeSisto, C.M.M.**, Herrera, J., Dimbiarijaonina, C., Randrianasolo, D., Rabevao, E., Mahazandry, E., Emerancine, Tsilanizara, E., Raveloson, G., Ranohianasy, J., Tiamanana, J., Njakandrina, J., Raharizafinirina, M.O., Rasolofo, Bezaralahy, R., Rakotoarisoa, S., Feno, T., Ramalanjaona, W., Zerimanana, Zandry, Z., Poulsen, J.R., Nunn, C. Ecological and human use traits shape lemur-tree interaction networks across human-modified landscapes. *In Review in Journal of Ecology.*
- DeSisto, C.M.M.**, Zandry, Z., Feno, T., Zareiesafandabadi, B., Randrianasy, J., Tiamanana, J., Randrianasolo, D., Rasolofo, M., Raveloson, G., Zerimanana, F., Razafindratsima, O., Herrera, J., Poulsen, J.R. Ecological and human use traits shape lemur-tree interaction networks across human-modified landscapes. *In Review in Ecology and Evolution.*
- DeSisto, C.M.M.**, Herrera, J., Dimbiarijaonina, C., Randrianasolo, D., Rabevao, E., Mahazandry, E., Emerancine, Tsilanizara, E., Raveloson, G., Ranohianasy, J., Tiamanana, J., Njakandrina, J., Raharizafinirina, M.O., Rasolofo, Bezaralahy, R., Rakotoarisoa, S., Feno, T., Ramalanjaona, W., Zerimanana, Zandry, Z., Poulsen, J.R., Nunn, C. Structure and stability of lemur-tree ecological networks across primary and secondary forests. *In Prep.*
- DeSisto, C.M.M.**, Kampe, J., Medjibe, V., Dunson, D., Gupta, A., Midoko Iponga, D., Malinowski, H., Poulsen, J. Imputing unobserved seed dispersal interactions to assess consequences of faunal degradation. *In Prep.*
- DeSisto, C.M.M.**, Kampe, J. Medjibe, V., Midoko Iponga, D., Gupta, A., Nunn, C., Poulsen, J.R. Anthropogenic and environmental factors drive frugivore interaction diversity. *In prep.*
- Gupta, A., **DeSisto, C.**, Maicher, V., Medjibe, V., Malinowski, M., Midoko Iponga, D., Ngomanda, A., Poulsen, J.R. Forest elephant activity associated with high forest carbon stocks. *In Prep.*
- Kampe, J., **DeSisto, C.M.M.**, Dunson, D. Covariate informed link prediction with extreme taxonomic bias. *In Prep.*

FELLOWSHIPS, GRANTS, AND AWARDS *Collaborative Grant

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| 2024 | Katherine Goodman Stern Fellowship (\$30,000 + tuition and fees) |
| 2024 | *Duke Climate Research Innovation Seed Program (CRISP) Research Award (\$99,995) |
| 2024,2022 | Duke Graduate School Conference Travel Award (\$700, \$700) |
| 2024, 2022 | Bass Connections Student Grant (\$3,000, *\$5,000) |
| 2024, 2023 | Phipps Botany in Action Fellowship (\$6,000, \$5,000) |
| 2023 | Duke Evolutionary Anthropology Mentorship Funding (\$1,000) |
| 2023 | Duke Office of Global Affairs Student Research Fund (\$2,500) |
| 2023-2024 | Preparing Future Faculty Fellowship |
| 2023 | Rolex Explorers Club Grant (\$4,992) |
| 2023 | Primate Conservation Inc. Grant (\$1,800) |
| 2023 | Explorers Club Discovery Grant Finalist |
| 2023 | Bass Connections Award for Outstanding Mentorship Finalist |
| 2023 | Duke Lemur Center Director's Fund Grant (\$3,554) |

2023 P.E.O Scholar Award (\$20,000)
 2023 Garden Club of America Fellowship in Tropical Botany (\$5,500)
 2023 Duke Competitive Summer Research Fellowship (\$8,415)
 2023 *Duke Student Research Award (\$5,000)
 2023 Duke Graduate School Conference Travel Award (\$700)
 2023, 2022 * Bass Connections Grant (\$25,000, \$42,000)
 2022 *Duke Graduate School Professional Development Grant (\$2,000)
 2022 *Duke Africa Initiative Award (\$1,000)
 2022 Duke Global Student Research Fund (\$1,500)
 2022 National Science Foundation Graduate Research Fellowship Honorable Mention
 2022 Duke University Summer Research Fellowship (\$8,250)
 2022 *Holohil Research Award (GPS collars, ~\$2,500)
 2022 Duke International Dissertation Research Travel Award (\$3,000)
 2022 *Duke Africa Initiative Award (\$1,000)
 2022 Duke Graduate School Conference Travel Award (\$700)
 2021 *Duke University Graduate Working Group on Global Issues (\$1,000)
 2021 Duke University Summer Research Fellowship (\$6,500)
 2021 Duke University Graduate Research and Travel Award (\$1,325)
 2020-2023 James B. Duke Fellowship (\$5000/ year)
 2019 Fulbright Student Research Fellowship (~\$13,000)
 2019 Hoopes Prize- awarded to Harvard College seniors for outstanding scholarly research in a senior thesis (\$5,000)
 2018 Herchel Smith Harvard Undergraduate Science Research Fellowship (\$8,300)
 2018, 2017 Elizabeth Gardner Norweb Summer Environmental Studies Scholarship – Garden Club of America (\$3,000, \$3,000)
 2018, 2017 Harvard University Herbaria Grant-in-aid of Undergraduate Research (\$2,500,\$4,824)
 2017 Tab Rasmussen Scholarship for Tropical Field Ecology in Bangladesh- Field Projects International (cost of tuition)
 2017 Weissman International Internship Program Grant –Harvard College (\$7,000)
 2016 Roy Family Environmental Internship – Harvard Kennedy School (\$4,000)
 2015-2019 Henry David Thoreau Foundation Environmental Scholarship (\$5,000/ year)

RESEARCH EXPERIENCE

Biocultural Sustainability in Madagascar

Project Manager, Supervisor: James Herrera, PhD.
 SAVA Region, Madagascar/Durham, NC, December 2021-Present

Pathogens to Pachyderms NSF Project

Student Researcher, Supervisor: John Poulsen, PhD.
 Ivindo National Park, Gabon/ Durham, NC, 2021-Present

Stanford Center for Ocean Solutions/ Harvard School of Public Health

Research Assistant, Supervisor: Christopher Golden, PhD.
 Boston, MA, April 2020 – August 2020

Fulbright Student Program

Student Researcher, Collaborator: Natalia Molina Moreira, PhD.

Guayaquil, Ecuador, September 2019-March 2020, Completed early due to COVID-19

Ants and Canopy Boot Camp

Research Assistant, Supervisors: Brian Fisher, PhD., Bonnie Blaimer, PhD.

Antananarivo/Ankarafantsika, Madagascar, July 2019

The Davis Lab, Harvard University Herbaria

Research Assistant, Advisor: Charles Davis, PhD.

Cambridge, MA, September 2017- May 2019

The Institute for Quantitative Social Science at Harvard

Research Assistant, Supervisor: Christopher Golden, PhD.

Cambridge, MA, December 2018- May 2019

Independent Field Research, Harvard University

Student Researcher, Advisor: Onja Razafindratsima, PhD.

Various locations, Madagascar, May 2018-August 2018, June 2017- July 2017

Planetary Health Alliance

Undergraduate Scholar, Supervisor: Christopher Golden, PhD.

Various locations, Madagascar/ Cambridge, MA, January 2017- December 2017

PRESENTATIONS/ POSTERS (FIRST AUTHOR)

- 2024 Ecological Society of America. *Effects of faunal degradation on aboveground biomass across Gabon* (presentation).
- 2024 North American Congress for Conservation Biology. *Impacts of tourism on deforestation across Madagascar* (presentation).
*Student Award Finalist
- 2024 New Phytologist Next Generation Scientists. *Land use change drives the structure and function of single-layer and multilayer ecological networks* (poster).
- 2024 P.E.O. State Chapter Conference. *Conservation and Community* (presentation).
- 2024 Fortin Foundation Bass Connections Showcase. *Biocultural Sustainability in Madagascar* (poster).
- 2024 Student Conference on Conservation Science. *Effects of faunal degradation on aboveground biomass across Gabon* (presentation).
*Talk prize, 3rd place
- 2024 International Society of Tropical Foresters. Land-use change drives structure and function of single-layer and multilayer ecological networks (poster).
- 2023 British Ecological Society Annual Meeting. *Effects of faunal degradation on aboveground biomass across Gabon* (presentation).
- 2023 Fortin Foundation Bass Connections Showcase. *Biocultural Sustainability in Madagascar* (poster).
- 2022 Fortin Foundation Bass Connections Showcase. *Effects of Defaunation on Tropical Forest Ecosystem Services* (poster). *Second place prize.

- 2021 Symposium on Ecological Networks: *Drivers and Consequences of Lemur-Plant Interaction Networks* (presentation).
- 2019 Congreso Manglares de America: *La dinámica del carbono en los manglares de Ecuador* (presentation).
- 2019 Association for Tropical Conservation Biology. *Animal-mediated spread of the invasive strawberry guava (*Psidium cattleianum*) in Madagascar* (presentation).
- 2019 Association for Tropical Conservation Biology. *The invasive strawberry guava (*Psidium cattleianum*) reshapes rainforest community structure in Madagascar.* (poster).
- 2018 National Collegiate Research Conference. *Impacts of the Invasive Strawberry Guava on Plant Community Structure in Madagascar's Rainforests* (poster).
- 2018 Garden Club of America Regional Annual Meeting. *The Spread and Consequences of the Invasive Strawberry Guava in Madagascar* (presentation).
- 2018 Seed Dispersal in the Anthropocene Workshop. *The Spread and Consequences of the Invasive Strawberry Guava in Madagascar* (presentation).
- 2017 Garden Club of America Regional Annual Meeting. *A multidimensional analysis of the invasive strawberry guava in Madagascar* (presentation).

TEACHING EXPERIENCE

- Environment 759: Biocultural Sustainability in Madagascar (Spring 2024, Fall 2023, Spring 2023, Fall 2022)
- Environment 872: Environmental Data Analytics (Spring 2022, Fall 2023, Spring 2023)
- Environment 710: Applied Data Science for the Environmental and Natural Sciences (Fall 2021)
- Environment 102: Introduction to Environmental Science and Policy (Spring 2021)
- Environment 201: Integrating Environmental Science and Policy (Fall 2020)

SELECT OUTREACH AND SERVICE ACTIVITIES

Building a Better Fieldwork Future

Certified Sexual Harassment and Assault Prevention Trainer
 Durham, NC, August 2021- Present

Malagasy Working Group

Founder and President, Durham, NC, September 2020 – May 2022

Duke University Program in Ecology

Executive Committee Student Representative, October 2023- Present
Seminar Planning Committee, September 2020- May 2023

Reach the World

Educational Outreach Volunteer
 Guayaquil, Ecuador, September 2019- December 2019

Conservation Society, Harvard College

President, Cambridge, MA, September 2015- May 2019

Harvard First-Year Outdoor Program

Leader, Cambridge, MA, February 2016- May 2019

Harvard Outing Club

Leader, Cambridge, MA, September 2016- May 2019

Environmental Action Committee, Harvard College

Outreach Chair, Cambridge, MA, September 2015- May 2018

SELECT WORKSHOP PARTICIPATION

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| 2024 | End-to-End Google Earth Engine by Spatial Thoughts, Online |
| 2023 | Phipps Conservatory Science Engagement Week, Pittsburgh, PA |
| 2023 | Women in Network Science Collabathon, Boston, MA |
| 2023 | Winter Workshop on Complex Systems, Amsterdam, Netherlands |
| 2022 | Decolonizing Ecology Workshop, Durham, NC |
| 2021 | Social Networks and Health, Online |
| 2019 | Taxonomía y ecología de arañas e insectos para la conservación de manglares, Guayaquil, Ecuador |
| 2018 | Seed Dispersal in the Anthropocene, Andasibe, Madagascar |

PROFESSIONAL MEMBERSHIPS

Duke Society of Fellows
Ecological Society of America
Association for Women in Science
Women in Network Science Society
British Ecological Society
Society for Conservation Biology

MENTORING

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| Roméo Bezaralahy, University of Antsirananana, Master's Thesis | June 2023-Present |
| Dedriek Whitaker, Duke University, Undergraduate Independent Study | Jan. 2023-Dec. 2024 |
| Allie Monahan, NCSU, Undergraduate Research Credit | Jan. 2023-Jan 2024 |
| Borna Zareiesfandabadi, UNC Chapel Hill, Undergraduate Research Credit | Jan. -Sept. 2023 |
| Sedraniaina Rasolomihaja, University of Antananarivo, Master's Thesis | Aug. 2022- Oct. 2023 |

OTHER RELEVANT PROFESSIONAL EXPERIENCE

Resource Efficiency Program, Harvard Office of Sustainability

Pfozrheimer House Representative, Cambridge, MA, September 2016- May 2017

Conservation International Suriname

Research Assistant, Paramaribo, Suriname, June 2016- August 2016

SKILLS

Language: Advanced Malagasy, advanced Spanish, beginner French
Technical: R and R Studio, ArcGIS, Git and GitHub, LaTeX, Google Earth Engine