

Katherine A. Culbertson

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Education

Ph.D. Environmental Science, Policy, and Management. University of California, Berkeley. Expected 2026
Berkeley, CA. *Advisors:* Dr. Matthew Potts, Dr. Onja Razafindratsima

B.A. Environmental Science and Public Policy. Harvard University. 2018
Cambridge, MA. *Honors thesis advisor:* Dr. Jonathan Losos
Cum laude, highest honors in field. Secondary in Integrative Biology. GPA 3.829;

Fellowships

National Science Foundation Graduate Fellow (2021)

National Science Foundation Graduate Research Fellowship Program, Life Sciences Category. Proposal entitled: "How do ecologically-informed design and community engagement shape forest restoration outcomes?"

Berkeley Graduate Fellow (2021)

University of California, Berkeley, Graduate Fellowship Program.

Research Experience

July-Sept 2020 **Field Technician**
University of Illinois at Springfield, Department of Environmental Studies, Banner Marsh Field Station

Feb-Mar 2019 **Research Assistant**
Kansas State University, Department of Biology, Laboratory of Lydia H. Zeglin

2017-2018 **Undergraduate Researcher**
Harvard University, Department of Organismic and Evolutionary Biology, Laboratory of Jonathan Losos

2015-2016 **Undergraduate Researcher**
Harvard University, Department of Organismic and Evolutionary Biology, Laboratory of Colleen M. Cavanaugh

2015 **NSF Research Experience for Undergraduates Intern**
Kansas State University, Department of Biology, Laboratory of Lydia H. Zeglin

2014 **Research Assistant**
Kansas State University, Department of Biology, Laboratory of Walter K. Dodds

Professional Experience

Mar 2020-present **Freelance Ecological Consultant**
Berkeley, California

Sept-Nov 2020 **Monarch Monitoring Project Naturalist Intern**
New Jersey Audubon Society; Cape May, NJ

Apr 2019-Mar 2020 **Agriculture Extension Volunteer**
Peace Corps Madagascar; Ampasimbe -Beforona, Madagascar

Jul 2018-Jan 2019 **Conservation Intern**
Highstead Foundation; Redding, CT

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Summer 2016

Harvard DRCLAS (David Rockefeller Center for Latin American Studies) Intern
Agencia de Protección Ambiental (APrA), Departamento de Planificación del Manejo de Residuos Domiciliarios; Buenos Aires, Argentina

Professional Associations

Berkeley Chapter of the Society for Conservation Biology, Board Member 2021-present

Leadership and Outreach

Graduate Student Association, *Social Committee Chair* 2021-present

Manhattan Rotary Club, District 5710, *Member* 2021-present

Operation Pollination Ambassador 2022-present

Peace Corps, *Volunteer Trainer* 2020

Harvard College Conservation Society, *President* 2017

Project Leader: Mangrove Education, Conservation International-Suriname 2018

Project Leader: Water Fund Analysis, The Nature Conservancy-Argentina 2016

Harvard Catholic Student Association, *President* 2017

Vice President for Community Development 2016

Harvard Institute of Politics (IOP), *Liaison for former Secretary of the Interior, Sally Jewell* 2017

Public Service Liaison 2016

CIVICS Teacher 2015- 2016

Special Events Committee Member Spring 2015

Foreign Language

Advanced Malagasy ~ speak, read, write

Conversational Spanish ~ speak, read, write

Intermediate French ~ read

Peer-Reviewed Publications

Culbertson, K.A., Garland, M.S., Walton, R.K., Zemaitis, L., Pocius, V.M. (2022). Long-Term Monitoring Indicates Shifting Migration Timing in Eastern Coastal Population of Monarch Butterflies (*Danaus plexippus*). *Global Change Biology*. <https://doi.org/10.1111/gcb.15957>

Rabe, A. M., Herrmann, N. C., Culbertson, K. A., Donihue, C. M., & Prado-Irwin, S. R. (2020). Post-hurricane shifts in the morphology of island lizards. *Biological Journal of the Linnean Society*, 130(1), 156-165. <https://doi.org/10.1093/biolinnean/blaa022>

Culbertson, K. A., & Herrmann, N. C. (2019). Asymmetric interference competition and niche partitioning between native and invasive Anolis lizards. *Oecologia*, 190(4), 811-820. <https://doi.org/10.1007/s00442-019-04466-1>

Manuscripts in Review

Culbertson, K.A., Treuer, T.L.H., Mondragon-Botero, A., Ramiadantsoa, T., Reid, J.L. (*In Review at Biotropica*). The Eco-Evolutionary History of Madagascar presents Unique Challenges to Tropical Forest Restoration.

Awards and Recognitions

Honorable Mention, National Science Foundation Graduate Research Fellowship Program, Life Sciences Category. (2020) "How do Community Engagement Strategies affect Forest Restoration in Madagascar?"

Hoopes Prize Nomination for Senior Thesis Project (2018): "Invasion, Competition, and Microhabitat Partitioning: An Investigation of Negative Interspecific Interaction between *Anolis carolinensis* and *Anolis sagrei* in Southeastern Florida."

Joint First Prize Winner, Undergraduate Category, Carnegie Council 2017 Essay Contest: "The World's Greatest Ethical Challenge"

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Presentations

Culbertson, K., Cavanaugh, C., Pakes Nelson, J. “Speciation in Extreme Cave Ecosystems: Morphometric Analyses Reveal Novel Diversity”. AAAS, Washington D.C., 2016.

Culbertson, K., Veach, A., Zeglin, L., “Got Carbon? Investigating Organic Nutrient Sources Among Biofilm and Sediment Communities throughout a Prairie Stream Network”. REU Symposium, Manhattan, KS, 2015.

Brant, J., Trentman, M., Culbertson, K., Dodds, W.K. “Crayfish Effects on Ecosystem Rates in Prairie Streams”. JASM, Portland, OR, 2014.

Other Publications

Culbertson, K., Daigle, C., Meyer, S. R. **Conservation for Communities: A Fiscal Case for Municipal Investment in Conservation.** *Highstead Foundation Conservation Brief Series.* Highstead Foundation, Redding, CT. 2019.

Culbertson, K., Daigle, C., Meyer, S. R. **New England Landscapes that Work: Conservation Supports Forestry and Farming.** *Highstead Foundation Conservation Brief Series.* Highstead Foundation, Redding, CT. 2019.

Culbertson, K., Daigle, C., Meyer, S. R. **Protecting New England’s Forests: An Investment in Clean Water, Public Health, and Disaster Mitigation.** Highstead Foundation, Redding, CT. *Highstead Foundation Conservation Brief Series.* 2019.

Culbertson, K., Daigle, C., Meyer, S. R. **Think Outside! New England’s Outdoor Recreation Economy.** *Highstead Foundation Conservation Brief Series.* Highstead Foundation, Redding, CT. 2019.

Holland, I. Culbertson, K., Meyer S.R. “The Economic Case for Conservation”. Highstead Foundation, Redding, CT. 2018

Culbertson, K., Buchanan, M., Meyer, S.R. “Public Funding for Conservation in New England.” Highstead Foundation, Redding, CT. 2018.

Grants

Harvard College Research Program Summer Funding, Harvard Office of Undergraduate Research and Fellowships
\$3,000 || Summer 2017

Harvard Center for the Environment Summer Funding, Harvard Office of Undergraduate Research and Fellowships
\$1,000 || Summer 2017

Harvard Museum of Comparative Zoology Program Summer Funding, Harvard Office of Undergraduate Research and Fellowships
\$2,500 || Summer 2017

Harvard College Research Program Funding, Office of Undergraduate Research and Fellowships
\$1,000 || Spring 2015, Fall 2015