

# KRISTY M. FERRARO

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## HIGHLIGHTS

- **>\$660,000** in competitive in-cash funding
- **43** papers published or submitted, including published papers in *Trends in Ecology and Evolution*, *Conservation Biology*, *Ecography*, and *Ecology Letters*
- **Sindie Manton Award Winner** for Best Review by an Early Career Scientist in the *Journal of Animal Ecology*
- **Georgina Mace Prize Winner** for Best Paper by an Early Career Scientist in *Ecological Solutions and Evidence*
- **Instructor of Record** at Yale School of the Environment
- **>40** invited talks, guest lectures, and workshops
- **Banting** Postdoctoral Fellow, **NSF** Graduate Research Fellow, and **Fulbright** Student Research Scholar

## EDUCATION

<b>Yale University</b> School of the Environment, <i>Ph.D.</i> Dissertation: The Zoogeochemistry of Northern Ungulates Environmental Humanities Graduate Certificate	New Haven, CT 2024
<b>Vanderbilt University</b> Earth and Environmental Sciences, <i>Master of Science</i> Thesis: Investigating the Role of Frugivorous Ungulates in Forest Nutrient Cycling	Nashville, TN 2018
<b>Boston College</b> Environmental Geoscience and Philosophy, <i>Bachelor of Science</i>	Chestnut Hill, MA 2015

## PROFESSIONAL APPOINTMENTS

<b>Presidential Postdoctoral Fellow</b> , University of Michigan	2025 - present
<b>Board Member and Science Team Member</b> , Alaska Future Ecology Institute	2023 - present
<b>Banting Postdoctoral Fellow</b> , Memorial University	2024 - 2025
<b>Instructor of Record</b> , Yale School of the Environment	2023
<b>NSF Graduate Research Fellow</b> , Yale School of the Environment	2017 - 2022
<b>Fulbright Student Scholar</b> , University of Berne	2015 - 2016

## PEER-REVIEWED PUBLICATIONS

\*Indicates shared first-authorship, <sup>U</sup>Indicates undergraduate mentee

32) **Ferraro, K.M.**, E. Forbes, A.J. Abraham, and J.M. Monk. (2026). Hot spots or hot moments? Contextualizing the spatio-temporal scale of research on zoogeochemical inputs. *Ecography*. DOI: <http://doi.org/10.1002/ecog.08351>

31) Love, A., J. Fox, J.G. Hendrix, S. Jackson, **K.M. Ferraro**, E. Vander Wal, Q.M.R. Webber. (2025). Addled by antlers: Synchronous disruption to female caribou antler phenology. *Ecosphere*. DOI: <http://dx.doi.org/10.1002/ecs2.70484>

**Featured:** [Quirks and Quarks](#), [CBC](#), [Canada's National Observer](#)

- 30) Funk, K., **K.M. Ferraro**, A. Schulte-Hostedde, and E. Vander Wal. (2025). Bridging Reproductive Management and Ecosystem Function: Behavioural Pathways Linking Contraception to Zoogeochemistry. *Journal of Canadian Zoology*.  
DOI: <https://doi.org/10.1139/cjz-2025-0076>
- 29) **Ferraro, K.M.**, S. Leroux, O. J. Schmitz, M. A. Bradford and E. Vander Wal. (2025). Zoogeochemical Niche Construction: How animal-mediated biogeochemistry affects evolution. *Trends in Ecology and Evolution*.  
DOI: <https://doi.org/10.1016/j.tree.2025.07.009>
- 28) **Ferraro, K.M.** and T. Whitehead. (2025). Rewilding Relationships: Principles for forging relationships in novel social-ecological systems. *AmBio*.  
DOI: <https://doi.org/10.1007/s13280-025-02238-1>
- 27) **Ferraro, K.M.** and G. Adam Meyer. (2025). Beyond hero and villain narratives in ecology and conservation science. *BioScience*.  
DOI: <https://doi.org/10.1093/biosci/biaf085>  
**Featured:** [BioScience Talks](#), [The Conversation](#)
- 26) **Ferraro, K.M.** and J. Lienau. (2025). Of all shapes and sizes: A theoretical framework for animal-mediated terrestrial heterogeneity across scales. *Ecography*.  
DOI: <https://doi.org/10.1002/ecog.08006>
- 25) **Ferraro, K.M.** A. Ferraro, E. Forbes, and J. Monk. (2025). Outdated reproductive norms, the naturalistic fallacy, and misunderstandings of welfare in recent call for zoo breed-and-feed programs. *PNAS*.  
DOI: <https://doi.org/10.1073/pnas.2504225122>
- 24) **Ferraro, K.M.**, A. Ferraro, E. Lundgren, and N.R. Sommer. (2025). The use and abuse of ecosystem service concepts and terms. *Biological Conservation*.  
DOI: <https://doi.org/10.1016/j.biocon.2025.111218>
- 23) Barrio I., K.E.M. Vuorinen, L. Barbero-Palacios, M. Defourneaux, M. Petit Bon, E. Greer, H.B. Anderson, T. Horstkotte, N. Lecomte, T. Windirsch, **K.M. Ferraro**, B.C. Forbes, ... and S. Kamenova. (2025). Emerging priorities in terrestrial herbivory research in the Arctic. *Arctic Science*.  
DOI: <https://doi.org/10.1139/as-2024-0080>  
**Awarded:** Editor's Choice
- 22) de Silva, S., N. Jacewicz, K. Kovaka, **K.M. Ferraro**, C. Callender, D. Jamieson, and A. Prakash. (2025). Navigating synergies vs. trade-offs between climate change mitigation and biodiversity conservation. *npj Biodiversity*.  
DOI: <https://doi.org/10.1038/s44185-025-00092-8>
- 21) Peterson, M., J. Bradham, **K.M. Ferraro**, M. Guillet, A. Keuroghlian, M. Ribeiro, and M.L. Jorge. (2025). Modeling movement patterns to identify thresholds of functional connectivity in fragmented forest landscapes. *Biological Conservation*.  
DOI: <https://doi.org/10.1016/j.biocon.2025.111177>
- 20) Hawkinson, V., O.J. Schmitz, and **K.M. Ferraro**. (2025). Understanding contingency in human-wolf conflict across a mosaic of land uses: An agent-based modeling approach. *People and Nature*.  
DOI: <https://doi.org/10.1002/pan3.70002>
- 19) **Ferraro, K.M.**, D. Albrecht,<sup>U</sup> J.G. Hendrix, E. Vander Wal, Q.M.R. Webber, O.J. Schmitz, and M.A. Bradford. (2024). The Biogeochemical Boomerang: Site fidelity creates nutritional hotspots that may promote recurrent calving site reuse. *Ecology Letters*. 27 (8), e14491.  
DOI: <https://doi.org/10.1111/ele.14491>

- 18) **Ferraro, K.M.** (2024). An individuals-oriented approach to conservation. *Animal Senteince*. 34 (8).  
DOI: <https://doi.org/10.51291/2377-7478.1848>
- 17) Jacquet, J., B. Franks, P. Godfrey-Smith, W. Sanchez-Suarez, P. Abrams ... **K.M. Ferraro**, ... R. York. (2024). Support for the US OCTOPUS Act. *Science*.  
DOI: <https://doi.org/10.1126/science.adq1980>
- 16) **Ferraro, K.M.** and C. Hirst. (2024). Missing carcasses, lost nutrients: Quantifying nutrient losses from deer culling practices in Scotland. *Ecological Solutions and Evidence*. 5 (3), e12356.  
DOI: <https://doi.org/10.1002/2688-8319>.  
**Awarded:** 2024 Georgina Mace Prize  
**Featured:** [The Times](#), [The Scotsman](#), [The Daily Mail](#), [The British Ecological Society](#)
- 15) Gadsden, G.I., **K.M. Ferraro**, and N. C. Harris. (2024). Energy efficient homes for rodent control across cityscapes. *Environmental Research Letters*. 19 (8), 084027.  
DOI: <https://doi.org/10.1088/1748-9326/ad5ab5>  
**Featured:** [Yale School of the Environment](#)
- 14) Orrick, K.\*, **K.M. Ferraro\***, and N.R. Sommer. (2024). Individuals as the ecological and ethical center of human-wildlife conflict. *Biological Conservation*. 294, 110614.  
DOI: <https://doi.org/10.1016/j.biocon.2024.110614>
- 13) Orrick, K., F. Rowland, N.R. Sommer, and **K.M. Ferraro**. (2024). Predator–prey interactions across hunting mode, spatial domain size, and habitat complexity. *Ecology*. 105 (6), e4316  
DOI: <http://doi.org/10.1002/ecy.4316>
- 12) Trepel, J., E. Lundgren, A. Abraham, **K.M. Ferraro**, C. Fløjgaard, L. Haugaard, P. Sunde, R. Pedersen, M. Tietje, J. Kamp, and E. Le Roux. (2024). Zoogeochemistry of a protected area: Driven by anthropogenic impacts and animal behaviour. *Conservation Science and Practice*. e13107.  
DOI: <http://doi.org/10.1111/csp2.13107>
- 11) Burak, M.K.\*, **K.M. Ferraro\***, K.D. Orrick\*, N.R. Sommer, D. Ellis-Soto, and O.J. Schmitz. (2024). Context matters when rewilding for climate change. *People and Nature*. 6 (2), 507-518  
DOI: <http://doi.org/10.1002/pan3.10609>
- 10) Welker, L.<sup>U</sup>, E.B. Ward, M.A. Bradford, and **K.M. Ferraro**. (2024). Mycorrhizal functional types shape nitrogen availability in a regenerating forest. *Plant and Soil*. 499 (1), 587-603.  
DOI: <https://doi.org/10.1007/s11104-024-06483-3>
- 9) Barbero-Palacios, L., **K.M. Ferraro**, I.C. Barrio, J.A. Krumins, J. Bartolomé, E. Albanell, L. Jarque-Bascuñana, J. Antonio Calleja, S. Lavín, J. A. Carriera, and E. Serrano. (2023). Faecal nutrient deposition of domestic and wild herbivores in an alpine grassland. *Science of the Total Environment*. 903, 166616.  
DOI: <https://doi.org/10.1016/j.scitotenv.2023.166616>
- 8) **Ferraro, K.M.**, L. Welker<sup>U</sup>, E.B. Ward, O.J. Schmitz, and M.A. Bradford. (2023). Mycorrhizal association mediates the zoogeochemical effects of a calving subsidy by forest ungulates. *Journal of Animal Ecology*. 92 (12), 2280-2296.  
DOI: <https://doi.org/10.1111/1365-2656.14002>  
**Awarded:** The 2024 Bormann Prize  
**Featured:** [Yale School of the Environment](#)
- 7) **Ferraro, K.M.**, A.L. Ferraro, A.Z. Andis, and N.R. Sommer. Revisiting two dogmas of conservation science. (2023). *Conservation Biology*. 37 (4), e14101.  
DOI: <https://doi.org/10.1111/cobi.14101>

**Awarded:** NYU Wild Animal Welfare Award, 2023

**Featured:** [Sierra Magazine](#), [Psychology Today](#)

6) Abraham, A., E. Duval, **K.M. Ferraro**, A. Webster, C. Doughty, E. le Roux, and D. Ellis-Soto. (2023). Understanding anthropogenic impacts on zoogeochemistry is essential for ecological restoration. *Restoration Ecology*. 31 (3), e13778.

DOI: <https://doi.org/10.1111/rec.13778>

5) Webber, Q.M.R., **K.M. Ferraro**, J.G. Hendrix, and E. Vander Wal. (2022). What do caribou eat? A review of the literature on caribou diet. *Canadian Journal of Zoology*. 100 (3), 197-207.

DOI: <https://doi.org/10.1139/cjz-2021-0162>

**Awarded:** Editor's Choice

4) **Ferraro, K.M.**, O.J. Schmitz, and M.A. McCary. (2022). Effects of ungulate density and sociality on landscape heterogeneity: a mechanistic modeling approach. *Ecography*. 2022.2.

DOI: <https://doi.org/10.1111/ecog.06039>

3) Sommer, N.R. and **K.M. Ferraro**. (2022). An ethical framework for behavioural training in wildlife management. *Conservation Science and Practice*. 4 (3), e616.

DOI: <http://doi.org/10.1111/csp2.616>

2) **Ferraro, K.M.**, A.L. Ferraro, and N.R. Sommer. (2021). Challenges facing cross-disciplinary collaboration in conservation ethics. *Conservation Science and Practice*. 3 (11), e523.

DOI: <https://doi.org/10.1111/csp2.523>

1) Ellis-Soto, D.\*, **K.M. Ferraro\***, M. Rizzuto, E. Briggs, J.D. Monk, and O.J. Schmitz. (2021). A methodological roadmap to quantify animal-mediated nutrient subsidies. *Journal of Animal Ecology*, 90 (7), 1605-1622.

DOI: <http://doi.org/10.1111/1365-2656.13538>

**Awarded:** 2021 Sidnie Manton Award

**Featured:** [Ecology in Focus](#)

## PAPERS IN REVIEW OR REVISION

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\*Indicates shared first-authorship, <sup>U</sup>Indicates undergraduate mentee

Drafts available upon request

**Ferraro, K.M.** and A.C. Thresher. Teaching beyond the Land Ethic. (in revision *PNAS*).

**Ferraro, K.M.\***, A. Corradini\*, V. Hawkinson, O. Chanel, C. Figuières, Y. Bramoullé, C. Vanderlocht, F. Ossi, D. Righetti, O.J. Schmitz, F. Cagnacci. Elements on the Move: How Ungulate Migration Expands Alpine Biogeochemical Footprints. (in revision at *Journal of Animal Ecology*).

**Ferraro, K.M.**, A. Meyer, J. Roman, D. Orr, S. Leroux, A. Subalusky, E. Duvall, J. Monk, J. Gewirtzman, M. Rizzuto, A. Koltz, C. Owens, A.J. Abraham, C. Doughty, O.J. Schmitz, E. Forbes. A Practical Primer on Analytical Approaches for Zoogeochemistry: Essential Biogeochemical Methods for Animal Ecologists. (in review at *Journal of Animal Ecology*).

**Ferraro, K.M.\***, K. Foote, J. Kusch, O. Leach, P. McNie. Need curiosity kill the cat? Considering individual animal welfare within ecology and conservation methods. (submitted to *Science Advances*).

Kusch, J.M., **K.M. Ferraro**, and E. Vander Wal. Social tethers: density-dependent social tethers inhibit fitness (in review at *Ecology*).

Preprint DOI: <https://doi.org/10.32942/X2692B>

Castello, P. and **K.M. Ferraro**. A review of the concept of biodiversity and of its application. (in revision at *Conservation Biology*).

Hendrix, J.G., **K.M. Ferraro** A. E. Love, J. M. Kusch, D. Albrecht, S. Leroux, Q. M. R. Webber, and E. Vander Wal. Shifting forage selection subsidizes seasonal resource scarcity. (in review at *Ecology*). Preprint DOI: <https://doi.org/10.64898/2026.03.13.711571>

Trepel, J., R. Buitenwerf, **K.M. Ferraro**, E. le Roux, E. Lundgren, B. Maitner, T. Strydom, J.C. Svenning, M Kerr. Introduced herbivores are, indeed, herbivores. (in revision at *Conservation Biology*).

Lessard, E., D. Albrecht<sup>U</sup>, J.G. Hendrix, Q.M.R. Webber, E. Vander Wal, and **K.M. Ferraro**. Scale-dependent Spatial Predictability of Carbon and Nitrogen in Boreal forage species. (in revision at *Ecosphere*).

Abraham, A., J. Trepel, J. Kristensen, P. Ambus, J. Bump, D. Burkepile, C. Doughty, E. Duvall, M. Elbroch, **K.M. Ferraro**, M. Gahbauer, U. Gelin, N. Lemoine, J. Monk, J. Müller, M. Peziol, C. Reed, J. Schimel, I. Smit, D. Thompson, J. du Toit, M. Heurich, and E. le Roux. Predators and humans shape local-scale nutrient heterogeneity by altering carcass deposition rates. (in review at *Journal of Animal Ecology*).

le Roux, E., A. Subalusky, J. Kristensen, A. Abraham, E. Bakker, C. Bello, F. Berzaghi, J. Bump, C. Doughty, C. Dutton, E. Duvall, **K.M. Ferraro**, E. Forbes, U. Gelin, A. González, D. Hawlena, R. Jaafar, F.X. Joly, A. Koltz, A. Larsen, J. Larsen, S. Leroux, M. Losada, M. McCary, G. A. Meyer, H. olde Venterink, D. Orr, C. Owens, L. Ribeiro, M. Rizzuto, J. Roman, O. Schmitz, M. Sobral, D. Ellis Soto, Diego; J. Svenning, C. Twining, J. Trepel, M. Veldhuis, B. Wijas, A. Zanne, N. Villar, Nacho J. Schoelynck. Zoogeochemistry: the role of animals in biogeochemical cycles. (in revision at *Functional Ecology*).

## FELOWSHIPS, AWARDS, AND HONORS

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### Fellowships and Scholarships [Total: \$408,000]

Presidential Postdoctoral Fellowship, <i>University of Michigan</i> (\$70,000)	2025
Banting Postdoctoral Fellowship, <i>NSERC - Government of Canada</i> (\$140,000)	2024
Ranked 4 out of 185 nominated applicants	
PEO Scholar Award, <i>Philanthropic Educational Organization</i> (\$20,000)	2022
Ranked top 10 of 700 nominated applicants	
NSF Graduate Research Fellowship, <i>National Science Foundation</i> (\$138,000)	2017
Fulbright/Swiss Excellence Scholarship, <i>Institute of International Education</i> (\$20,000)	2015
The Seydel Award, <i>Institute of International Education - Declined</i> (\$20,000)	2015

### Awards and Honors [Total: \$2,000]

Georgina Mace Prize for Best Early Career Paper, <i>Eco. Sol. and Ev.</i> (\$500 prize)	2025
Bormann Prize, <i>Yale School of the Environment</i> (\$750 prize)	2024
X-Factor Prize awarded to the Alaska Future Ecology Institute <i>X-Prize Carbon Removal</i>	2024
Award Winner - Wild Animal Welfare Workshop, <i>NYU Environmental Studies</i> (\$500 prize)	2023
Sidnie Manton Award for Best Early Career Review, <i>J. of Animal Ecology</i> (\$250 prize)	2022
Mary Allen Stafford Named Scholar, <i>Philanthropic Educational Organization</i>	2022
Boston College Arts and Sciences Honors Program, <i>Boston College</i>	2015
Geosciences Honors Program, <i>Boston College</i>	2015
Philosophy Honors Program, <i>Boston College</i>	2015
Member of the Order of the Cross and Crown, <i>Boston College</i>	2015
Sophomore Scholar, <i>Boston College</i>	2013

## RESEARCH FUNDING

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### Grants [Total: \$253,705]

\*Co-awarded

Presidential Postdoctoral Fellowship Research Funding, <i>University of Michigan</i> (\$20,000)	2025
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Center for Animal and Environmental Protection Grant, <i>CEAP at NYU</i> (\$32,300)	2025
Banting Post-doctoral Research Grant, <i>Memorial Universtiy</i> (\$30,000)	2024
Yale University Student Travel Award, <i>Yale Graduate School</i> (\$1,600)	2022, 2023
ESA Travel Award (non-competitive), <i>ESA Canada Chapter</i> (\$250)	2023
Doctoral Travel Award, <i>Yale School of the Environment</i> (\$1,500)	2020, 2022, 2023
LEAP Student Grant, <i>Yale Law, Animals, and Ethics Program</i> (\$5,000)*	2021, 2022
Graduate Student Travel Award, <i>NSF &amp; Geological Society of America</i> (\$500)	2022
International Dissertation Research Fellowship, <i>MacMillan Center</i> (\$18,000)	2022
Dissertation Improvement Award, <i>Yale Institute for Biospheric Studies</i> (\$5,000)	2021
Kohlberg-Donohoe Research Fellowship, <i>Yale School of Forests</i> (\$5,000)	2021
Research Fellowship Program, <i>Yale Institute for Biospheric Studies</i> (\$1,555)	2021
Stable Isotope Matching Funds, <i>Yale Institute for Biospheric Studies</i> (\$4,500)	2022, 2023
Christine Stevens Wildlife Award, <i>Animal Welfare Institute</i> (\$15,000)	2020
NSF/GSA Student Research Grant, <i>Geological Society of America</i> (\$2,500)	2020
Research Tools and Instruments, <i>NSERC Canada</i> (\$94,000)*	2020
Research Fellowship Program, <i>Yale Institute for Biospheric Studies</i> (\$5,000)	2020
Grants in Aid of Research, <i>Sigma Xi</i> (\$1,000)	2020
Doctoral Pilot Award, <i>Yale Institute for Biospheric Studies</i> (\$3,000)	2019
GSA Student Research Grant, <i>Geological Society of America</i> (\$2,500)	2017
Tinker Travel Award, <i>The Tinker Foundation</i> (\$3,000)	2017
Graduate Student Travel Grant, <i>Vanderbilt University</i> (\$500)	2017
ACC-IAC Thesis Research Grant, <i>Boston College</i> (\$2,000)	2014

## TEACHING AND MENTORING

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### Instructor of Record

Conservation Ethics, *Yale School of the Environment* Spring, 2023

### Academic Advising

Memorial University, Masters Summer Research Mentor (1) 2025

Yale College, Undergraduate Thesis Advisor (2)

Dara Albrecht 2022-2023

*“Caribou-ffet”: The Nutritional Landscape of Caribou in Newfoundland.*

Les Welker 2021-2022

*The Impact of Mycorrhizal Association of Understory Plants on Soil Dynamics*

Vanderbilt University, Undergraduate Thesis Research Mentor (1) 2017-2018

Nashville Public Schools, Senior Research Project Mentor (1) 2017-2018

### Teaching Assistantships

Restoration Ecology, *Yale School of the Environment* Spring, 2024

Pests, Parasites, and Pathogens, *Yale School of the Environment* Spring, 2019

Oceanography, *Vanderbilt University* 2016, 2017

Paleoclimate Reconstruction Methods, *University of Berne* Spring, 2016

### Course Mentor

Undergraduate independent study, *Vanderbilt University* Spring, 2018

High School independent study, *Vanderbilt University* Spring, 2018

### Guest Lectures

The History of the Conservation of Wildlife, *New York University* 2026

Doctoral Seminar, *New York University* 2026

Applied Ethics for Invasion Biology, *Yale University* 2025

Animlals and the Nitrogen Cycle, <i>Memorial University</i>	2024
Drafting a Successful Personal Statement, <i>Vanderbilt University</i>	2024
Conservation Ethics, <i>Connecticut College</i>	2024
Animal-Ecosystem Interactions, <i>Wofford College</i>	2024
Ethical Approaches to Conservation, <i>Yale University</i>	2024
The Zoogeochemistry of Deer, <i>University of Florida</i>	2024
Conservation Ethics, <i>North Dakota State University</i>	2023
Applied Ethics for Conservation, <i>Yale University</i>	2023
Ethics of Eradication and Control, <i>Yale University</i>	2023
Applications of Agent Based Modeling in Ecology, <i>University of Hohenheim</i>	2022
Conservation Ethics, <i>Yale University</i>	2022
Conservation Ethics, <i>Harvard University</i>	2022
Ecological Applications of Agent Based Modeling, <i>Vanderbilt University</i>	2021
Introduction to LaTeX, <i>Yale School of the Environment</i>	2020
Ethical Approaches to Conservation, <i>Vanderbilt University</i>	2018
Paleoclimate Reconstruction Methods using Chironomids, <i>University of Berne</i>	2016

### Guest Workshops

Applying to Postdoctoral Fellowships, <i>Memorial University</i>	2025
Applying to Fellowships, <i>Vanderbilt University</i>	2023
Introduction to LaTeX, <i>Yale School of the Environment R-rodeo</i>	2020
Introduction to IBMs using NetLogo, <i>Yale School of the Environment R-rodeo</i>	2020
Safety in the Field - workshop organizer, <i>Yale School of the Environment</i>	2019

### Disabilities Tutor

Department of Environmental Geosciences, <i>Boston College</i>	2012
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### Professional Mentorship

Yale University, Women in Science Undergraduate Mentee-Match (2)	2018-2024
Yale College, Fellowship Office Graduate Affiliate	2018-2024
Boston College, Women's Center Mentoring Program (2)	2015-2024
Yale School of the Environment, PhD Peer Mentoring Program (1)	2020-2021

### Teaching Development

Effective Graduate School Mentoring Workshop	2024-2025
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## INVITED TALKS, PANELS, AND WORKSHOPS

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<b>New York University Environmental Studies Seminar Series, New York, NY, USA</b>	2026
Animals as Architects: Linking Behavior, Ecosystems, and Biogeochemistry	
<b>Western University Biology Department Seminar Series, London, ON, CAN</b>	2026
The Animal Element: Linking Behavior, Ecosystems, and Biogeochemistry	
<b>Western University Biology Department Workshop, London, ON, CAN</b>	2026
Applied Ethics for Conservation	
<b>Gordon Research Conference: Animal Movement Ecology, CA, USA</b>	2025
Beyond the Journey: Using Agent-Based Models to Track Ecosystem and Population Consequences of Migratory Nutrient Transfers ( <i>1 of only 34 invited talks at confrence</i> )	
<b>Biology Seminar Series, Wellesley College, MA, USA</b>	2024
Animal Alchemy: Integrating Animal and Ecosystem Ecologies for Holistic Conservation	
<b>Environmental Studies Seminar Series, Colgate University, NY, USA</b>	2024
Animal Alchemy: Integrating Animal and Ecosystem Ecologies for Holistic Conservation	
<b>Ecology, conservation, and bioethics: Toward practical and interdisciplinary</b>	2024

<b>solutions to reinhabit the Earth, Federal University of Rio de Janeiro, Remote</b>	
Revisiting Two Dogmas of Conservation	
<b>Guelph University Biology Seminar Series, Guelph, ON, CAN</b>	2024
Because Animals Matter: Zoogeochemistry of North American Ungulates	
<b>Guelph University Biology Department Workshop, Guelph, ON, CAN</b>	2024
Because Animals Matter: Conservation Ethics	
<b>Bormann Prize Talk: Yale School of the Environment, New Haven, CT, USA</b>	2024
Mycorrhizal association mediates the zoogeochemical effects of a calving subsidy by forest ungulates	
<b>Florida Fish and Wildlife Conservation Commission, Remote</b>	2024
Revisiting Two Dogmas of Conservation Science	
<b>New York University Wild Animal Welfare Workshop, New York, NY, USA</b>	2023
Revisiting Two Dogmas of Conservation Science	
<b>Memorial University Biology Seminar Series, St. John's, NL, CAN</b>	2022
Because Animals Matter: Zoogeochemistry of North American Ungulates	
<b>Memorial University Biology Department Workshop, St. John's, NL, CAN</b>	2022
Because Animals Matter: Applied Ethics for Conservationists	
<b>Yale Confluence Series, New Haven, CT, USA</b>	2022
Applied Ethics for Conservationists	
<b>PEO Chapters C and F Summer Meeting, Hamden, CT, USA</b>	2022
The Role of Ungulates in Nutrient Cycles	
<b>Yale Animal Ethics Reading Group, New Haven, CT, USA</b>	2022
Challenges to Conservation Ethics	
<b>The Association for Tropical Biology and Conservation, Virtual</b>	2021
Applying to Graduate School Seminar - Panelist	
<b>University of Bangor Behaviour, Ecology, &amp; Physiology Seminar Series, UK</b>	2021
The Role of Ungulate Density and Sociality on Landscape Nutrient Distribution	
<b>Vanderbilt University Latin American Studies Brazil Week, Nashville, TN, USA,</b>	2018
Investigating the Role of White-Lipped Peccaries in Nitrogen Cycling in the Cerrado of Brazil	
<b>University of Bern Paleoclimate Group Seminar, Bern, CH</b>	2016
A Chironomid-inferred Holocene Temperature Reconstruction at Gouillé Rion	

## PRESENTATIONS

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*Talk.* **Ferraro, K.M.**, and G. A. Meyer . Beyond Hero and Villian Narratives in Ecology and Conservation Science. British Ecological Society, Scotland, 2025.

*Talk.* **Ferraro, K.M.** The Animal Element: Linking Behavior, Ecosystems, and Biogeochemistry. School for Environment and Sustainability Faculty Seminar. University of Michigan, Ann Arbor, MI, USA 2025.

*Talk.* **Ferraro, K.M.**, Ellis-Soto, D., M. Rizzuto, E. Briggs, J.D. Monk, and O.J. Schmitz. A roadmap to quantifying zoogeochemical impacts of animals on the move. Ecological Society of America, Portland, USA, 2023.

*Talk.* **Ferraro, K.M.**, Ellis-Soto, D., M. Rizzuto, E. Briggs, J.D. Monk, and O.J. Schmitz. A methodological roadmap to quantify animal-mediated nutrient subsidies. British Ecological Society, Edscent inburgh, UK, 2022.

*Talk.* **Ferraro, K.M.**, O.J. Schmitz, M.A. McCary. The role of ungulate density and sociality on landscape nutrient redistribution, Ecological Society of America, Montreal, CAN, 2022.

*Talk.* **Ferraro, K.M.** The role of caribou in nutrient redistribution, Max-Planck Yale Center 2021 Mini-Conference, New Haven, CT, 2021.

*Talk.* **Ferraro, K.M.**, O.J. Schmitz, M.A. McCary. The role of ungulate density and sociality on landscape nutrient redistribution, Yale School of the Environment Research Day, New Haven, CT, 2021.

*Talk.* **Ferraro, K.M.**, A.L. Ferraro, N.R. Sommer. The need for cross-disciplinary communication to inform conservation ethics. Animalhouse: Animals and Their Environs, The New School, New York,

2021

*Talk.* **Ferraro, K.M.**, N.R. Sommer. A Call for a New Conservation Ethic in the Age of Climate Change. Animalhouse: Animals and Their Environs, The New School, New York, Cancelled.

*Poster.* **Barnes, K.M.** Investigating the Role of White-Lipped Peccaries in Nitrogen Cycling in the Cerrado of Brazil. *Poster.* Vanderbilt University Earth and Environmental Graduate Research Symposium, Nashville TN. 2017.

*Poster.* **Barnes, K.M.** Simulating Ungulate Impact in Forests: A Century-Based Model of White Lipped Peccary Presence in the Forests of the Cerrado, Brazil. Ecological Society of America, Portland OR. 2017.

*Talk.* **Barnes, K.M.** A Paleoclimate Reconstruction Using Coleoptera Remains Representing the Chelford Interstadial at Arclid Quarry, Cheshire.

*Talk.* **Barnes, K.M.** Boston College Department of Environmental Geoscience Undergraduate Research Symposium, Boston MA. 2015.

*Talk.* **Barnes, K.M.** Consideration For All Beings. *Oral Presentation.* Boston College Department of Philosophy Undergraduate Research Symposium, Boston MA. 2015.

## RELEVANT WORK EXPERIENCE

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- Yale College Fellowships Office** New Haven, CT  
*National Fellowships Graduate Assistant* 2019 - 2022
- Reviewed and edited over 100 applications for fellowships including Fulbright, Truman, Marshall, Mitchell, Rhodes, Soros, and internal Yale fellowships each year
  - Served on interview panels for various fellowships including Fulbright and Soros
  - Scheduled and conducted mock interviews for Yale College applicants of the Rhodes, Marshall, Mitchell, Fulbright, Truman, and Goldwater fellowships
  - Composed and edited campus endorsement letters for Marshall, Mitchell and Rhodes Fellowships
  - Improved Yale College's rank in the Top Producing Institutions for Fulbright U.S. Students list from 15<sup>th</sup> to 5<sup>th</sup>
- Yale Analytical and Stable Isotope Center** New Haven, CT  
*Research Assistant* 2019
- Prepared and ran samples for stable isotope analysis on a Costech ECS 4010 Elemental Analyzer with Conflo III interface

## PROFESSIONAL SERVICE

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- Subject Editor**
- Ecological Applications* 2025 - present  
*Individual-Based Ecology* 2025 - present
- Special Features Editor**
- Topical collection editor for *Individual-Based Ecology* entitled *Individual Based Conservation* 2026
- Joint special feature editor for the *Journal of Animal Ecology* and *Functional Ecology* 2025-2026  
entitled *The Mechanisms Underpinning Zoogeochemistry*
- Editor for special virtual issue of the *Journal of Animal Ecology* entitled *Animal Vectorized Subsidies* 2022
- Guest Subject-Matter Editor**
- Ecological Applications, Journal of Animal Ecology (3), Functional Ecology (2)*
- Ad Hoc Reviewer**
- Conservation Biology (3), Ecological Applications (5), Oecologia, Journal of Animal Ecology (4), Ecology and Evolution (3), Functional Ecology, Environmental Research Letters, BioScience, PCIP, AmBio (2), Landscape Ecology (2), Journal of Ecology, Wildlife Biology*

## Grants Reviewer

*Graduate Women in Science National Fellowship*

## University Service

Faculty Search Committee Student Representative	2020
Yale School of the Environment Doctoral Committee Founder	2020
Yale School of the Environment Student Committee Rep	2019-2020
Yale School of the Environment Student Interest Group Leader	2019-2020
Vanderbilt Women in Earth Science Event Coordinator	2016-2018

## Committees

Yale Graduate Student Disability Alliance	2020-2024
Yale Anti-Racism Network	2020-2022
Yale Environment Doctoral Funding COVID-19 Response	2020
Yale School of the Environment BIOMES Committee	2019-2020
Yale School of the Environment Student Activities Committee	2019-2020

## Symposia Organized

Zoogeochemistry as a Throughline in Ecology, and for a Changing World <i>co-organizer</i> Ecological Society of America, Portland, OR	2023
The Consequences and Mechanisms of Zoogeochemistry <i>co-organizer</i> Ecological Society of America, Portland, OR	2023
Approaches to Studying Zoogeochemistry <i>co-organizer</i> Ecological Society of America, Portland, OR	2023

## Talks Organized

Wolf Personalities, Beavers, and Patchy Indirect Effects in Northern Minnesota Speaker: Joseph Bump	2025
Cascading impacts of mammalian community shifts in South American drylands Speaker: Julia Monk	2025
Exploring the role of soil fauna in forest succession and ecosystem processes Speaker: Janey Lienau	2025
Eat, Poop, Die: How Animals Make Our World Speaker: Joseph Roman	2024
Feral Earth: Introduced Megafauna and the Biological Reality of Naiveness Speaker: Erick Lundgren	2023
Black Veganism: Race, Animals, and Ethics Speaker: Lindgren Johnson and Sly Ko	2021
Through the Prism of Individual Differences: Integrating the Geometry of the Selfish Herd and the Ideal Free Distribution Using Caribou Calving Aggregations Speaker: Eric Vander Wal	2020
Cutting it Close in the Canadian Boreal Forest: How Logging is Eroding the Great North Forest and Fueling the Climate and Biodiversity Crises Speaker: Jennifer Skene	2020

## Conference Volunteer

Ecological Society of America	2018
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## PROFESSIONAL DEVELOPMENT

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### Programs

Law, Ethics, and Animals Program Fellow, <i>Yale Law School</i>	2019-2024
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### Workshops

NYU Wild Animal Welfare Workshop	New York, NY, 2024
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New Thinking in Conservation	San Diego, CA, 2024
Planet Zoogeochemistry	Aarhus, Denmark, 2023
Anti-racism Learning Community for Graduate Students and Postdocs	New Haven, CT, 2020
Incorporating Environmental Justice into Teaching Symposium	New Haven, CT, 2019
Diversity in Academia Workshop	New Haven, CT, 2019
STEM Policy and Advocacy: Making Your Voice Heard	Nashville, TN, 2017

### Short Courses

Ecosystem roles of Megafauna in the Past, Present, and Future	Aarhus, Denmark 2022
Yale Interdisciplinary Center for Bioethics Summer Course	New Haven, CT, 2020
Climate Change Ethics and Animal Ethics Seminars	
Metabarcoding of Trophic Interactions	Innsbruck, Austria, 2019
Survivor's Guide to Stable Isotope Ecology	Siracusa, Italy, 2017

## OUTREACH AND SCIENCE COMMUNICATION

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### Public Writing

Codversations. <i>The Caribou Fertility Feedback Loop.</i>	2024
Codversations. <i>Caribou nutrition: when eating your greens isn't quite enough.</i>	2022
Codversations. <i>What do caribou eat?</i>	2022
Animal Ecology in Focus. <i>Animals in the Driver's Seat: A Methodological Roadmap To Animal Mediated Nutrient Translocation.</i> <a href="#">Available here</a>	2022
N.R. Sommer's Ecology Blog. <i>Tips for fellowship applications</i> <a href="#">Available here</a>	2022

### Select Media Coverage

The Conversation. <i>The cost of casting animals as heroes and villains in conservation science.</i> <a href="#">Available here</a>	
BioScience Talks. <i>Science Storytelling, with Kristy Ferraro and Adam Meyer.</i> <a href="#">Available here</a>	
CBC. <i>Moose and caribou could be parts of the puzzle for fighting climate change, says researcher.</i> <a href="#">Available here</a>	
The Telegram. <i>Can moose help combat climate change? MUN researcher hopes to find out</i> <a href="#">Available here</a>	
The Times, <i>Leaving rotting deer carcasses could help Scottish woodlands.</i> <a href="#">Available here</a>	
The Scotsman, <i>Why culled deer carcasses in Scotland should be left to rot, according to experts.</i> <a href="#">Available here</a>	
Psychology Today. <i>Conservation Science Must Value Individuals and Anthropomorphism.</i> <a href="#">Available here</a>	
Medium. <i>A Bear is not Just a Bear: Recognizing the Individual in Wildlife Conservation</i> <a href="#">Available here</a>	
Yale School of the Environment. <i>Unique Research on Calving Impacts on Nutrient Cycle Earns 2024 Bormann Prize</i> <a href="#">Available here</a>	
Raincoast Investigate and Inform. <i>How studying animal culture can inform conservation.</i> <a href="#">Available here</a>	
Sierra Magazine. <i>Can Conservation Be Compassionate?</i> <a href="#">Available here</a>	
Green Blob Podcast. <i>Christmas Special with Sidnie Manton Award winner Kristy Ferraro</i> <a href="#">Available here</a>	
Yale School of the Environment. <i>Yale Doctoral Students Highlight 'Animal-Vectored Subsidies' in Journal of Animal Ecology</i> <a href="#">Available here</a>	
Journal of Animal Ecology. <i>Diego Ellis Soto and Kristy M. Ferraro win the Sidnie Manton Award</i> <a href="#">Available here</a>	

Yale Law School LEAP. *Q&A Kristy Ferraro Ph.D. '24 on How Caribou Impact Ecosystems and the Ethics of Wildlife Management* [Available here](#)

### Invited Public Talks

Science guest speaker, Miss Porter's School	Farmington, CT 2024
Earth Day guest speaker, Cheshire Academy	Hamden, CT 2020
Visiting scientist, Georgia Aquarium	Atlanta, GA, 2020
Visiting scientist, Boston Public Schools	Boston, MA, 2017

### Outreach Programing

Yale Pathways to Science	2019-2021
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### TECHNICAL SKILLS

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**Programming Languages:** R, MATLAB, NetLogo

**Software & Tools:** LaTeX, CENTURY, Microsoft Office, ArcGIS

**Research:** VHF telemetry and triangulation, ungulate calf capture, denitrification assays, carbon mineralization assays, soil sample processing, chironomid identification

**Instrumentation:** IRGA, Elemental Analyser with Conflow III, Isotope-radio mass spectrometry

### PROFESSIONAL AND SCHOLASTIC MEMBERSHIPS

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Ecological Society of America, Geological Society of America, British Ecological Society, Society for Conservation Biology, Women in Science at Yale, Yale Animal Ethics Study Group