

KRISTY M. FERRARO

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EDUCATION

Yale University School of the Environment, <i>PhD Candidate</i>	New Haven, CT 8/18 - Present
Vanderbilt University Earth and Environmental Sciences, <i>Master of Science</i>	Nashville, TN 8/16 - 8/18
Boston College Environmental Geoscience and Philosophy, <i>Bachelor of Science</i>	Chestnut Hill, MA 8/11 - 5/15

AWARDS AND HONORS

NSF Graduate Research Fellowship, <i>National Science Foundation</i>	2017
Fulbright Student Research Fellow, <i>The Institute of International Education</i>	2015
The Seydel Award, <i>The Institute of International Education</i> - Declined	2015
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

GRANTS

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</i> (co-awarded) (\$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> (\$2,000)	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

PUBLICATIONS

Ferraro, K.M., Jorge, M.S.P., Keuroghlian, A. (in review). The role of fungivorous ungulates in forest nitrogen cycling

Ellis-Soto, D.,* **Ferraro, K.M.**,* Rizzuto, M., Briggs, E., Monk, J., Schmitz O. (in review). A methodological roadmap to quantify animal-mediated nutrient subsidies.

Ferraro, K.M., Sommer, N. (in prep). A call for a new conservation ethic in the age of climate change

Sommer, N., **Ferraro, K.M.**, (in prep). An ethical framework for behavioral training in wildlife management

*Indicates shared first-authorship

RESEARCH EXPERIENCE

Yale School the Environment <i>NSF Graduate Research Fellow, PhD Candidate</i> · Research on how ungulates act as nutrient vectors and impact soil carbon and nitrogen storage, especially in arctic and boreal ecosystems	New Haven, CT 8/18 - Present
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Vanderbilt University Department of Earth and Environmental Sciences <i>NSF Graduate Research Fellow, Masters Student</i>	Nashville, TN 8/16 - 8/18
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- Master's project exploring how ungulates impact nutrient cycling in the Cerrado of Brazil

Vanderbilt University Women of Earth and Environmental Science Nashville, TN
Research Assistant 6/17 - 8/17

- Comprehensive literature review on the impacts of implicit bias in student teaching evaluations supported by a Vanderbilt - sponsored by a Equality, Diversity, and Inclusion SEED Grant

University of Berne Department of Paleoecology Berne, Switzerland
Fulbright Student Fellow 8/15 - 8/16

- Created a high resolution chironomid-based Alpine paleoclimate reconstruction.

Boston College Department of Earth and Environmental Science Chestnut Hill, MA
Undergraduate Thesis 5/14 - 5/15

- Environmental Geoscience Honors Program Thesis: Reconstructing Paleoclimates of Cheshire, UK, Using Beetle Fossils

Boston College Department of Philosophy Chestnut Hill, MA
Undergraduate Thesis 5/14 - 5/15

- Philosophy Honors Program Thesis: Consideration For All Beings: A Utilitarian Approach to the Treatment of Domesticated Non-Human Animals

University of Edinburgh School of Geosciences Edinburgh, UK
Atlantic Coast Conference-International Academic Collaborative Research Fellow 5/14 - 8/15

- Conducted a paleoclimte reconstruction using the Mutual Climatic Range Method

Boston College Department of Earth and Environmental Science Chestnut Hill, MA
Undergraduate Research Assistant 5/14

- Conducted field work to help gather data on sediment formation in the Connecticut River

ELLOWSHIPS AND CERTIFICATES

Yale Law School; Law, Ethics and Animals Program New Haven, CT
Student Fellow 9/19 - Present

- Organized and attended events sponsored by LEAP
- Led successful efforts to use more sustainable, plant based options for catering at the Yale School of Forestry and Environmental Studies.

Yale Environmental Humanities Center New Haven, CT
Graduate Certificate in the Environmental Humanities 9/19 - Present

- Certificate that requires coursework, workshops, teaching, and project to train students in the Environmental Humanities

RELEVANT WORK EXPERIENCE

Yale College Fellowships Office New Haven, CT
National Fellowships Graduate Assistant 8/19 - present

- Reviewed and edited applications for Fulbright, Truman, Marshall, Mitchell, Rhodes, Soros, and internal Yale fellowships
- Participated in interviews for the 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 applicants
- Provided general advice to applicants regarding fellowship choice, the application process, and the experience while on the fellowship

Yale Analytical and Stable Isotope Center New Haven, CT
Research Assistant 9/19 - 12/19

- Ten hour a week commitment preparing and running samples for stable isotope analysis on an Costech ECS 4010 Elemental Analyzer with Conflo III interface

TEACHING EXPERIENCE

- Yale College Department of Environmental Studies** New Haven, CT
Teaching Fellow 1/19 - 5/19
- Teaching Fellow for undergraduate course Pets, Parasites and Pathogens
 - Held office hours and graded coursework
- Vanderbilt University Department of Earth and Environmental Sciences** Nashville, TN
Course Mentor 1/18 - 5/18
- Independently taught and mentored an undergraduate's 1-credit course on nutrient and soil processes
 - Assigned readings, met weekly to discuss the material, and assessed weekly write-ups regarding the topic
- Vanderbilt University Department of Earth and Environmental Sciences** Nashville, TN
Course Mentor 1/18 - 5/18
- Independently taught and mentored an highschool on cameratrap methods through a Vanderbilt-based science research program
 - Assigned readings, met weekly to discuss the material, and assessed weekly write-ups regarding the topic
 - Taught introductory R skills
- Vanderbilt University Department of Earth and Environmental Sciences** Nashville, TN
Teaching Assistant 8/16 - 12/17
- Independently taught discussion courses for an introductory undergraduate Oceanography course of 75 students for three semesters
 - Developed Excel based weekly activities to teach both conceptual oceanography themes and data analysis skills
 - Worked with the Vanderbilt Center for Teaching and Learning to evaluate and improve pedagogy throughout the semester, including mid-semester surveys observed teaching
- University of Berne Department of Paleocology** Berne, Switzerland
Lecturer's Assistant 8/15 - 8/16
- Conducted individual training for a future PhD student on the methods used for chironomid-based paleoclimatic reconstruction, including identification of chironomid and statistical methods of analysis
 - Aided in teaching an intensive two-week practical-based course on paleoclimate reconstruction methods
- Boston College Student Services, Boston College** Chestnut Hill, MA
Tutor 9/12 - 5/15
- Tutored a visually impaired student in Environmental Geosciences and in labs for the major, which required creating innovative ways to help her understand the physical aspects of the labs

LEADERSHIP AND OUTREACH

- Yale Women in Science Mentor** New Haven, CT
Yale University 9/18-Present
- Mentor for two undergraduates at Yale through Women in Science at Yale where we meet monthly to discuss issues in the academy, goal setting, project management, grant applications, and other research related topics
- Yale Graduate Fellowship Affiliate** New Haven, CT
Yale University 9/18-Present
- Mentor, application reader, and practice interviewer for students applying for major awards including Fulbright and the NSF GRFP
- Yale Graduate Student Disability Alliance** New Haven, CT
Yale University 9/19-Present

- Member of the Yale Graduate Student Disability Alliance, which works to promote fellowship and awareness regarding disabilities within the Graduate School

Yale School of the Environment Student Activities Committee Member New Haven, CT
Yale University 9/18-6/20

- Elected PhD representative of the YSE Student Activities Committee (9/18-9/19)
- Led the formation of an independent YSE PhD committee of 12 students to represent the needs specific to the PhD community (9/19-6/20)
- Organized the YSE's weekly BIOMES lecture, which included contacting speakers, organizing visits, and creating a lecture series that is meaningful and interesting to all members of the school's community

Yale School of the Environment Student Activities Committee Member New Haven, CT
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Yale School of the Environment Student Interest Group Leader New Haven, CT
Yale University 9/18-12/19

- Leader of the RODEO, a weekly meeting for doctoral students to learn R and troubleshoot coding problems

Yale Pathways to Science New Haven, CT
Yale University 9/18-9/19

- Organizer of the Yale Pathways to Science Environmental Cafe and Research Day which brings New Haven highschoolers to experience a research conference

Vanderbilt Women in Earth Science Nashville, TN
Vanderbilt University 9/16-5/18

- Events coordinator for the Women in Earth Science group at Vanderbilt University, a chapter of American Women in Geoscience
- Organized poster making sessions for the 2017 March for Science and for the 2018 Women's March
- Organized collective meetings with other departmental women's groups at Vanderbilt

Boston College Women's Center Mentor Chestnut Hill, MA
Boston College 9/17-Present

- Mentor for an undergraduate at Boston College through the Council for Women of Boston College

PROFESSIONAL DEVELOPMENT

Short Courses

- 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

Workshops

- 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

PRESENTATIONS

Animalhouse: Animals and Their Environments, New School New York, NY
Presentation canceled, COVID-19

- A Call for a New Conservation Ethic in the Age of Climate Change

Ecological Society of America Annual Meeting

Portland, OR

Poster

8/17

- Simulating Ungulate Impact in Forests: A Century-Based Model of White Lipped Peccary Presence in the Forests of the Cerrado, Brazil

Vanderbilt Latin American Studies Department's Brazil Week

Nashville, TN

Presentation

10/17

- Investigating the Role of White-Lipped Peccaries in Nitrogen Cycling in the Cerrado of Brazil

TECHNICAL SKILLS

Programming Languages

R, MATLAB

Software & Tools

LaTeX, CENTURY, Microsoft Office, ArcGIS

INVITED LECTURES AND TALKS

Cheshire Academy, Cheshire, CT, USA, <i>Earth Day guest speaker</i>	2020
Georgia Aquarium, Atlanta, GA, USA, <i>visiting scientist</i>	2020
Boston Public Schools, Boston, MA, USA, <i>visiting scientist</i>	2017
Vanderbilt University, Nashville, TN, USA, <i>department seminar</i>	2017

PROFESSIONAL AND SCHOLASTIC MEMBERSHIPS

Women in Science at Yale
Yale Animal Ethics Study Group
American Women in Geosciences
Ecological Society of America
Geological Society of America