# NATHALIE R. SOMMER

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## **EDUCATION**

Ph.D Yale University, School of the Environment	2019 – present New Haven, CT
MPhil. Yale University, School of the Environment	2021 New Haven, CT
MESc. Yale University, School of the Environment	2019 New Haven, CT
B.S. Biology, B.S. Environmental Science and Policy College of William & Mary	2017 Williamsburg, VA
Grants, Fellowships, Awards	
Grants	Total: \$42,745
*Co-awarded American Museum of Natural History, Roosevelt Memorial Grant (\$1,000) Geological Society of America, Gould Research Grant (\$3,175) Yale Law, Ethics, and Animals Program (LEAP) Grant (\$5,000)* Yale Institute for Biospheric Studies, Dissertation Improvement Grant (\$5,000) John F. Enders Research Grant (\$1,500) Yale Environment and Biospheric Studies Doctoral Grant (\$7,750) Kohlberg-Donohoe Research Grant (\$6,000) Yale Institute for Biospheric Studies Doctoral Pilot Grant (\$3,000) Schiff Fund for Wildlife Habitat and the Environment (\$4,000) Yale Institute for Biospheric Studies Small Grant (\$3,000) Jubitz Family Foundation Summer Grant (\$2,120) Carpenter-Sperry Research Fund (\$1,200)	2022 2022 2021, 2022 2022 2021 2021 2018, 2020 2020 2018 2018 2018 2018
Fellowships & Scholarships Yale Merit Research Scholarship (\$50,000) Yale School of Forestry Scholarship (\$40,000) EPA Greater Research Opportunities (GRO) Fellow (\$50,000) NSF Research Experience for Undergraduates (REU) Fellow (\$5,000) NSF International Research Experence for Students (IRES) Fellow (\$3,000)	Total: \$148,000 2017-2019 2017-2019 2015-2017 2015 2014
Awards  NSF Graduate Research Fellowship, Honorable Mention  Joy Archer Award for Environmental Research, College of William & Mary  Rankin Prize for Best Student Oral Presentation, New England Estuarine Research Society	2019 2017 2016

## **PUBLICATIONS**

9. <u>Sommer, N.R.</u>, Alshwairikh, Y.; Arietta, A. Z.; Skelly, D.K.; Buchkowski, R.B. (2023) Prey metabolic responses to predators depend on predator hunting mode and prey antipredator defenses. *Oikos*. doi.org/10.1111/oik.09664

<sup>\*</sup>High-school coauthor

- 8. **Sommer, N.R.**, Ferraro, K.M. (2022) An interest-based rights ethic for wildlife management and applications to behavioral training. *Conservation Science and Practice*. doi.org/10.1111/csp2.616
- 7. Ferraro, K.M, Ferraro, A.L., **Sommer, N.R.** (2021) Challenges facing cross-disciplinary collaboration in conservation ethics. *Conservation Science and Practice*. doi.org/10.1111/csp2.523
- 6. **Sommer, N.R.** & Schmitz, O.J. (2020) Differences in prey personality mediate trophic cascades. *Ecology and Evolution*. doi:10.1002/ece3.6648
- 5. Guiliano, S.\*, Karr, C.\*, **Sommer, N.R.**, Buchkowski, R.W. (2020) Woodlice change the habitat use of spiders in a different food chain. *PeerJ*. doi:10.7717/peerj.9184
- 4. Nelson, J.A., Johnson, D.S., Deegan, L.A., Spivak, A.C. <u>Sommer, N.R.</u> (2019) Feedbacks between nutrient enrichment and geomorphology alter bottom-up control on food webs. *Ecosystems*. doi:10.1007/s10021-018-0265-x
- 3. Hill, T.D., Sommer, N.R., Kanaskie, C.R., Santos, E.A., Oczkowski, A.J. (2018) Nitrogen and carbon concentrations and stable isotope ratios: data from a 15N tracer study in short-form Spartina alterniflora and Distichlis spicata. *Data in Brief.* doi:10.1016/j.dib.2018.09.133
- 2. Hill, T.D., Sommer, N.R., Kanaskie, C.R., Santos, E.A., Oczkowski, A.J. (2018) Nitrogen uptake and allocation estimates for Spartina alterniflora and Distichlis spicata. *Journal of Experimental Marine Biology and Ecology*. doi:10.1016/j.jembe.2018.07.006
- 1. **Sommer, N.R.**, Moody, N.M., Lantz, S.M., Leu, M., Karubian, J., Swaddle, J.P. (2018) Red-backed fairywrens adjust habitat use in response to dry season fires. *Austral Ecology*. doi:10.1111/aec.12629

### **PRESENTATIONS**

#### **Invited Talks**

Food, fear, and refuge in a bug-eat-bug world. Quiet Corner Initiative Summer Research Series at Yale Myers Forest. June 2021.

#### **Contributed Presentations**

*Talk.* **Sommer, N.R.** Investigating the refuge-resource paradox in the landscape of fear. Yale School of the Environment Research Conference, New Haven CT. April 2021.

*Talk*. Ferraro, K.M. & **Sommer, N.R.** The need for cross-disciplinary communication to inform conservation ethics. The New School. AnimalHouse: Animals and their Environs, New York NY. April 2021.

*Poster*. **Sommer, N.R.** & Alshwairikh, Y.A. Prey functional types and physiological responses to predation risk. Yale School of the Environment Research Conference, New Haven CT. April 2020. *Canceled due to COVID-19*.

*Talk*. Ferraro, K.M. & **Sommer, N.R.** A call for a new conservation ethic in the age of climate change. The New School AnimalHouse: Animals and their Environs, New York NY. April 2020. *Canceled due to COVID-19*.

*Flash Talk*. **Sommer, N.R.** Herbivore personality and plasticity in trophic interactions. Yale School of the Environment Research Conference, New Haven CT. April 2019.

*Talk.* Moore, N.R., Kanaskie, C.R., Oczkowski, A. J., Hill, T.D. Belowground nitrogen uptake and allocation by Spartina alterniflora and Distichlis spicata. New England Estuarine Research Society, Block Island RI. October 2016.

*Poster*. Moore, N.R., Leu, M., Swaddle, J. P. How do fire regimes and an invasive grass affect habitat occupancy of an Australian songbird? Ecological Society of America, Baltimore MD. August 2015.

Talk. Moore, N.R., Nelson, J.A. Influence of creek bank geomorphology on foraging success of Fundulus heteroclitus in a New England salt marsh. Marine Biological Laboratory Research Symposium. Plum Island, MA. August 2015.

Poster. Moore, N.R., Swaddle, J.P. Impact of altered fire regimes on tropical passerines. William & Mary Undergraduate Research Symposium, Williamsburg VA. April 2015.

TFACHING	<b>EXPERIENCE</b>
LEAGIIING	LAFENIENCE

Teaching Experience	
Certifications and Courses  Yale Certificate of College Teaching Preparation (CCTP)  Anti-Racist Pedagogy	In progress Fall 2021
Instructor of Record  Conservation Ethics, Yale School of the Environment  Natural Science Research Methods, Yale School of the Environment	Spring 2023 Fall 2022
Teaching Assistantships  Professional Skills Module: Visual Communication Environmental Data Visualization & Communication, Yale School of the Environment Natural Sciences Research Methods, Yale School of the Environment Conservation Biology (Head Teaching Fellow), Yale University Conservation Biology, Yale University Ornithology, Yale University Introduction to Organisms, Ecology, Evolution, College of William & Mary Evolution of Organisms, College of William & Mary	Spring 2021, 2022
Guest Lectures  Beginners Guide to Soil Carbon Analyses - Yale School of the Environment Data Management Best Practices - Yale School of the Environment Reproducibility: From Data to Viz - Yale School of the Environment Philosophy and Ethics in Science - Yale School of the Environment Data Management and Workflow - Yale School of the Environment Introduction to GitHub - Yale School of the Environment Game Theory, Cooperation, and ESS - College of William & Mary	Fall 2021 Fall 2021 Spring 2021 Fall 2020 Fall 2020 Fall 2019 Spring 2016
Workshops  Introduction to Databases and SQL Yale School of the Environment SPRY Working with GitHub and RProjects Yale School of the Environment Perils of Collaborative Coding Yale School of the Environment R-rodeo Introduction to R Yale-Myers Field Ecologist Internship Public Speaking Green Careers Women Leaders: A Conference for High School Women	Fall 2022 Fall 2020, Fall 2022 Fall 2020 Summer 2018 Spring 2018
Mentoring and Outreach	
Research Mentorship  NSF BIO REPS Post-Baccalaureate student (1)  Yale School of the Environment, MESc students (2)  Yale Sustainability Office, Undergraduate Research Ecologist (1)  Yale-Myers Forest Summer Ecologist Interns (8)  Yale College Undergraduate, Independent Research Project (1)  Schmitz Lab High School Interns, Independent Research Projects (3)	2021-2022 2020-2022 2019 2018 2018 2018
Professional Mentorship Small Pond Science EEB Mentee-Match (2)	2020–present

2017-present

Women in Science at Yale, Undergraduate Mentee-Match (3)

#### **Public Outreach**

Flanders Nature Center Summer Camps

New Haven Science Fair

National Student Leadership Conference, Environmental Sciences at Yale-Myers Forest

Green Careers, Women Leaders: A Conference for New Haven High School Women

Environmental Protection Agency Atlantic Ecology Division Community Outreach

2021

2020—present

2019—present

2018

## PROFESSIONAL SERVICE

**Ad Hoc Reviewer**: BMC Ecology, Journal of Animal Ecology, The American Naturalist, Journal of Thermal Biology, Journal of Arid Environments

Conference Organizer: 35th Annual Research Conference Yale School of the Environment (2019)

Commitees: Yale School Forests Research Committee (2019-); Yale Environment Anti-Racism Network (2020-); Yale Environment Doctoral Student Recruitment (2020); Yale Environment Doctoral Student Government Bylaws (2020); Yale Environment Doctoral Funding COVID-19 Response (2020); William & Mary STEM Admissions (2015-2017); William & Mary Aquatic Ecology Faculty Hire (2016)

**Consultation**: Yale Sustainability Office Research Ecologist (2019); William & Mary Residence Life EcoHouse Advisor (2015-2016)

Departmental Seminar Organizer: Yale Environment Confluence Research Seminar (2020-2021)

Learning Communities: Yale Law, Ethics, & Animals Program (2020-2022)