

# NATHALIE R. SOMMER

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## EDUCATION

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<b>Ph.D.</b> Yale University, School of Forestry and Environmental Studies	2019-present Advisor: Oswald J. Schmitz
<b>Master of Environmental Science</b> Yale University, School of Forestry and Environmental Studies	2017-2019
<b>B.S. Biology; B.S. Environmental Science and Policy</b> College of William & Mary	2013-2017

## GRANTS, FELLOWSHIPS & AWARDS

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### *Grants*

2018	Schiff Fund for Wildlife Habitat and the Environment ( <b>\$4,000</b> )
2018	Kohlberg-Donohoe Research Fellowship ( <b>\$3,000</b> )
2018	Yale Institute for Biospheric Studies ( <b>\$3,000</b> )
2018	Jubitz Family Foundation Summer Fellowship ( <b>\$2,120</b> )
2018	Carpenter-Sperry Internship and Research Fund ( <b>\$1,200</b> )

### *Fellowships & Scholarships*

2017 - 2019	Yale Merit Research Scholarship ( <b>\$50,000</b> )
2017 - 2019	Yale School of Forestry Scholarship ( <b>\$40,000</b> )
2015 - 2017	EPA Greater Research Opportunities (GRO) Fellow ( <b>\$50,000</b> )
2015	NSF Research Experience for Undergraduates (REU) Fellow ( <b>\$5,000</b> )
2014	NSF International Research Experience for Students (IRES) Fellow ( <b>\$3,000</b> )

### *Awards*

2019	NSF Graduate Research Fellowship (GRFP) – Honorable Mention
2017	Joy Archer Award for Environmental Research, College of William & Mary
2016	Rankin Prize for Best Student Oral Presentation, New England Estuarine Research Society

## PUBLICATIONS

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- 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 <sup>15</sup>N tracer study in short-form *Spartina alterniflora* and *Distichlis spicata*. *Data in Brief*. doi.org/10.1016/j.dib.2018.09.133.
- 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.org/10.1016/j.jembe.2018.07.006.
- 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.org/10.1111/aec.12629.
- Nelson, J.A., Johnson, D.S., Deegan, L.A., Spivak, A.C. **Sommer, N.R.** (2018). Feedbacks between nutrient enrichment and geomorphology alter bottom-up control on food webs. *Ecosystems*. doi.org/10.1007/s10021-018-0265-x.

## PRESENTATIONS

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*Flash Talk.* **Sommer, N.R.** Herbivore personality and plasticity in trophic interactions. Yale F&ES 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.

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

## TEACHING EXPERIENCE

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### Teaching Assistant

Conservation Biology, Yale University	Fall 2018, Fall 2019
Ornithology, Yale University	Spring 2018
Evolution of Organisms, College of William & Mary	Spring 2016, Spring 2017
Introductory Biology, College of William & Mary	Fall 2017

### Guest Lecturer

Natural Science Research Methods, Yale Forestry	Fall 2019
Evolution of Organisms, College of William & Mary	Spring 2016

### Workshops

*Public Speaking*, Green Careers Women Leaders: A Conference for High School Women (2018)  
*Introduction to R*, Yale-Myers Field Ecology Undergraduates (2018)

## PROFESSIONAL SERVICE

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**Reviewer:** *BMC Ecology*, *Journal of Animal Ecology*

**Conference Organizer:** 35<sup>th</sup> Annual Research Conference Yale F&ES (2019)

**Committees:** STEM Admissions (2015-2017); Aquatic Ecology Faculty Hire (2016)

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

## MENTORING & OUTREACH

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### Research Mentorship

Yale Sustainability Office, Undergraduate Research Ecologist (1)	2019
Yale-Myers Forest Summer Ecologist Interns (8)	2018
Yale College Undergraduate, Independent Research Project (1)	2018
Schmitz Lab High School Interns, Independent Research Projects (3)	2018

### Professional Mentorship

Women in Science at Yale, Undergraduate Mentor-Match	2017-present
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### Public Outreach

National Student Leadership Conference, Environmental Sciences at Yale-Myers Forest	2019
Green Careers, Women Leaders: A Conference for New Haven High School Women	2018
Environmental Protection Agency Atlantic Ecology Division Community Outreach Days	2016

## SKILLS

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**Software:** R, SPSS, ArcGIS, Distance, Mathematica

**Research and Technical:**

- **Field:** Radio telemetry, GPS, mist netting, flume netting, sediment coring, plant ID, invertebrate ID, avian bleeding and banding, vegetation and transect surveys
- **Lab:** Gut content analysis of fish, denitrification assays, plant root identification
- **Instrumentation:** Isotope-radio mass spectrometry (Isoprime100), direct mercury analysis (DMA80), field greenhouse gas analysis (Picarro, LI-COR)

**Certifications:** CPR & First Aid