

**Suzanne Pierre**  
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## EDUCATION

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Ph.D., 2018     Department of Ecology and Evolutionary Biology  
Cornell University, Ithaca, NY  
Advisors: Dr. Timothy Fahey and Dr. Peter Groffman

B.A., 2013     Department of Environmental Studies  
New York University, New York, NY

## RESEARCH AREA

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I study the impacts of climate change on the terrestrial cycling of carbon and nitrogen at the ecosystem and molecular scales. I aim to identify the underlying mechanisms controlling nutrient availability and predict feedbacks to terrestrial primary production.

## GRANTS

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2017            NSF IGERT International Training Award; **\$10,000**  
2016            American Philosophical Society Lewis and Clark Fund; **\$5,000**  
2016            Betty Miller Francis '47 Fund for Field Research; **\$1,220**  
2014, 2015     Andrew W. Mellon Foundation Grant; **\$1,000**  
2014-2016     NSF IGERT Small Grant; **\$12,000**  
2014, 2015     Ecology & Evolutionary Biology Summer Research Support; **\$2,000**  
2013            Dean's Undergraduate Research Fund; **\$1,000**  
2013            Dean's Undergraduate Conference Grant; **\$1,000**  
2013            Millbrook Garden Club Student Research Grant; **\$1,500**

## FELLOWSHIPS

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2016-2018     NSF CSBC IGERT Traineeship; **\$60,000**  
2013-2016     Sloan Foundation Diversity Fellowship; **\$106,030**

## HONORS

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2017            Edward A. Bouchet Graduate Honors Society Scholar  
2016            Lewis and Clark Field Scholar, American Philosophical Society  
2015, 2016     Cornell University Graduate School Dean's Scholar  
2014            National Science Foundation (NSF) Graduate Research Fellowship Honorable Mention  
2013            Best Undergraduate Presentation, *Dimensions of Political Ecology Conference*, Lexington, KY.

## PUBLICATIONS

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**Pierre, S.**, Litton, C. M., Giardina, C., Sparks, J. P., Fahey, T. J. Mean annual temperature drives nitrogen availability and fine root foraging. (*in prep*).

**Pierre, S.**, Hewson, I., Sparks, J. P., Litton, C. M., Giardina, C., Groffman, P. M., Fahey, T. J. Ammonia oxidizer populations vary with nitrogen cycling across a tropical montane mean annual temperature gradient. *Ecology* (2017). doi:10.1002/ecy.1863

**Pierre, S.**, Groffman, P. M., Killilea, M. E. & Oldfield, E. E. Soil microbial nitrogen cycling and nitrous oxide emissions from urban afforestation in the New York City Afforestation Project. *Urban For. Urban Green.* 15, 149–154 (2015).

## INVITED PRESENTATIONS

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**Pierre S.** 2017. Oral. Mean annual temperature as a driver of ecosystem C and N cycling across a tropical elevation gradient. *Max Planck Institute for Biogeochemistry*. Jena, Germany.

**Pierre S.** 2016. Oral. Mean annual temperature drives ammonia oxidizer abundance and nitrogen bioavailability in a tropical montane wet forest. *Buckley Lab Group, Cornell University*. Ithaca, NY, USA.

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**Pierre S.** 2016. Oral. Ammonia oxidizer abundance and activity drive nutrient availability across a natural mean annual temperature gradient. *Von Fischer Lab Group, Colorado State University*. Fort Collins, CO, USA.

## CONFERENCE PRESENTATIONS

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**Pierre S.** 2017. Oral. Microbe-controlled nutrient markets and thrifty root responses across a natural temperature gradient. *Cornell University Biogeochemistry Student Symposium*. Ithaca, NY, USA.

**Pierre S,** Groffman PM, Fahey TJ, Sparks JP, Litton CM, Hewson I. 2016. Poster. Soil ammonia oxidizer dynamics reflect nitrogen cycling across a natural temperature gradient. *American Geophysical Union*. San Francisco, CA, USA.

**Pierre S,** Groffman PM, Fahey TJ, Sparks JP, Litton CM, Hewson I. 2016. Poster. Soil ammonia oxidizer dynamics reflect nitrogen cycling across a natural temperature gradient. *International Symposium on Microbial Ecology*. Montreal, QC, Canada.

**Pierre S,** Sparks JP, Litton CM, Giardina C, Hewson I. 2015. Oral. Coupled C and N dynamics along a natural mean annual temperature gradient. *Ecological Society of America Annual Meeting*. Baltimore, MD, USA.

**Pierre S.** 2013. Oral. Marine Protected Areas and Livelihoods: Inquiring beyond Immediate Impacts. *Dimensions of Political Ecology Conference*. Lexington, KY, USA.

**Pierre S,** Groffman P, Killilea M, Oldfield E. 2013. Oral. Effects of urban afforestation on soil nitrous oxide emissions. *Environmental Chemistry and Microbiology Student Symposium*. University Park, PA, USA.

**Pierre S.** Human impacts on species diversity and vegetal cover of seagrass in Madagascar. 2012. Poster. *Student Conference on Conservation Science*. New York, NY.

## RESEARCH POSITIONS

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2017-2018     **University of California, Berkeley; Visiting Student Researcher**  
Visiting researcher with the Dawson Lab Group in the Integrative Biology Department.

2017           **Max Planck Institute for Biogeochemistry; Visiting Researcher**  
Collaborating with Dr. Susan Trumbore in the Biogeochemical Processes Group.

2013-2018     **Cornell University; Graduate Student**  
Ph.D. candidate in the Department of Ecology and Evolutionary Biology.

2012- 2014    **New York University; Undergraduate Researcher**  
Investigated effects of urban afforestation on soil nitrous oxide fluxes (Pierre *et al.* 2015).

2013           **American Museum of Natural History; Research Assistant**  
Research assistant to Dr. Eleanor Sterling and Dr. Erin Betley for Museum publications on biodiversity in Southeast Asia and the Pacific.

2012           **Cary Institute of Ecosystem Studies; Project Assistant**  
Project Assistant for the lab of Dr. Peter Groffman. Soil and gas field sampling at Hubbard Brook Experimental Forest and at the Baltimore Ecosystem Study LTER.

## RELATED TRAINING

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2016    Participant- Kavli Center/Alan Alda Center Science Communication Workshop

2015    Cornell Science Communication Workshop

2015    NSF-IGERT Microbial Methods Short Course with Dr. Ruth Richardson (Cornell)

2014    University of Utah Stable Isotopes in Ecology and Biogeochemistry Course

## TEACHING

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- 2017 Introduction to Ecology and the Environment (BIOEE 1610), Instructor: Robert Howarth (Cornell)  
2016 Forest Ecology Lecture and Field Lab (NTRES 4200, 4201); Dept. of Natural Resources; Instructor: Timothy Fahey (Cornell)  
2014 Deserts Undergraduate Field Biology Course (BIOEE 4940); Instructors: Jed Sparks and Harry Green (Cornell)

## **PROFESSIONAL AFFILIATIONS**

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American Geophysical Union  
Ecological Society of America

## **SERVICE AND OUTREACH**

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- 2017 Manuscript Reviewer- *Biogeochemistry*  
2016-2018 Lead Organizer- Cornell E&EB/NB&B Ph.D. Diversity Recruitment Weekend  
2016 Panelist- Cornell Summer Success Symposium for beginning and continuing graduate students  
2016 Panelist-Personal Website and Social Media Workshop, Department of Entomology, Cornell  
2015, 2016 Undergraduate Research Mentor- Mentees: Jacqueline Dean ('19) and Alexis Wilson ('19)  
2015 Co-Organizer- NSF IGERT Graduate Student Retreat at Cary Institute of Ecosystem Studies  
2015 Reviewer- Cornell IGERT Cross-Scale Biogeochemistry and Climate Grant Review Panel  
2014, 2015 Organizing Committee- Cornell E&EB Graduate Student Research Symposium  
2013 Organizing Committee- Departmental Invited Speaker Lunch Series