Leona Neftaliem

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Education

Stanford University, Stanford, CA, USA

• Ph.D. Candidate in Environment and Resources

- Fall 2022 Present
- Ongoing research: "Towards a North American Urban Tree Spatial Dataset: Leveraging Urban Tree Inventories from 30 Cities in North America"
- Committee: Drs. Chris Field (Lead Advisor), Rob Jackson (Lead Advisor), and Nicole Ardoin **External Section 1988** Feb. 2024 May 2024
- Oxford University, Oxford, England
 Course: Data Analysis in Ecology: Statistics for Ecologists & Field Biologists

George Washington University, Washington, D.C., USA

• B.S. Biology with honors; Minor: Sustainability

Fall 2020

• Honors thesis: "How to Get Away with Decomposition: Sunlight driven decomposition of lignin in simulated wood" (Advisor: Dr. Amy Zanne)

Pertinent Experience

Biological Science Technician, Smithsonian Environmental Research Center Jan. 2021 - July 2022

- Built and programmed remote sensor loggers to measure CO₂ data for <u>GENX</u> at the <u>Global</u> Change Research Wetland
- Supported several ongoing climate change experiments by building sensor and heating infrastructure, and managing data (projects here)
- Co-advised a George Washington University undergraduate researcher, Rose Cheney

Undergraduate Research, Dr. Amy Zanne's Lab, George Washington University Jan. 2018 - Dec. 2020

• Completed three independent research projects on the impact of solar radiation on wood decomposition and an undergraduate honors thesis

Teaching Assistantships

Graduate Teaching Assistant, Stanford University

Jan. 2024 - March 2024

- Course: Designing Environmental Research
- Taught causal inference methods for environmental research to first-year PhD students

Undergraduate Teaching Assistant, George Washington University

Aug. 2018 - June 2020

- Courses: Introductory Biology: Cells and Molecules lab and Introductory Biology 1112: The Biology of Organisms
- Taught cellular, molecular, ecological, and evolutionary concepts and fundamental lab skills to undergraduates
- Supported additional classroom activities through ensuring lab protocols were met, grading assignments, proctoring and reviewing exams, creating lesson plans and lecturing, and holding weekly office hours

Fellowships and Awards

Stanford Community Impact Award	2024
Smithsonian 'Life on a Sustainable Planet' Research Award (Co-PI; \$49,188)	2023 - Present
Knight-Hennessy Scholar (\$306,000)	2023 - Present
National Science Foundation Graduate Research Fellowship (\$138,000)	2022 - Present
Stanford Doerr School of Sustainability Dean's Graduate Scholar (\$100,000)	2022 - Present
Stanford EDGE Fellowship (\$12,800)	2022 - Present
GW Undergraduate Research Fellowship (\$5,000)	2020
GW Sigelman Undergraduate Research Enhancement Award (\$500)	2020
Harlan Undergraduate Summer Fellowship (\$5,000)	2019

Posters and Presentations

Neftaliem, L., Field, C. B., Jackson, R. B. Towards a North American Urban Tree Spatial Dataset: Leveraging Urban Tree Inventories from 30 Cities in North America. American Geophysical

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leonan@stanford.edu | (703) 508-5274 | Stanford, CA, USA Union, San Francisco, CA, December 2023.

- **Neftaliem, L.**, Rich, R. L., Noyce, G. L. Can a DIY Arduino-based system accurately measure CO2 flux from automated chambers? American Geophysical Union, Chicago, IL, December 2022.
- **Neftaliem, L.**, Rich, R. L., Noyce, G. L. Finer Temperature Measurements and GenX Sensors. Global Research Wetland Symposium, Smithsonian Environmental Research Center, Edgewater, MD, March 2021.
- **Neftaliem, L.**, Rosenfield, M. V., Zanne, A. E. How to Get Away with Decomposition: Light driven decomposition on lignin in simulated wood. Honors Thesis Seminar, remote, December 2020.
- **Neftaliem, L.**, Rosenfield, M. V., Zanne, A. E. Simulated Wood: Lignin Photodegradation. Harlan Poster Session, Washington, D.C., August 2019.

Invited Speaking Engagements

- Rosenfield, M. V., **Neftaliem, L.**, Rich, R. L., Zanne, A. E. The Techno-Ecosphere: Using novel technologies to understand carbon emissions and ecosystem function. Smithsonian Gardens, *Let's Talk Gardens* Webinar, remote, June 24, 2021.
- Rosenfield, M. V., **Neftaliem, L.**, Rich, R. L., Zanne, A. E. Carbon in the Capital: DC Metro carbon dioxide monitoring in the COVID-19 era. Smithsonian Gardens, remote, October 30, 2020.
- Rosenfield, M. V., **Neftaliem, L.**, Rich, R. L., Zanne, A. E. Carbon in the Capital: DC Metro carbon dioxide monitoring in the COVID-19 era. Co-lecture in COVID-19 and the Environment (Walsh School of Foreign Service), Georgetown University, remote, October 28, 2020.

Reports

David J. Hayes, Stephen Ferruolo, David Haines, Katelyn McEvoy, **Leona Neftaliem**, Lisa Roberds, Siddharth Sachdeva, Celina Scott-Buechler, Angela Tsao, Katie Vogelheim, Brad Ward, Callie Walker, Benjamin Zehr, <u>Measuring the Carbon (and Other) Benefits of Climate-Smart Forestry Practices</u> (Policy Lab: Harvesting Climate Benefits from Agriculture and Forestry Practices (808Y); Teaching/Supervising Team: David J. Hayes).

Leadership, Volunteer, and Internship Experience

OMG-YA Science Fiction Novel, Researcher	Jan. 2024 - Present
E-IPER Leadership, Wellness Liaison	July 2023 - Present
Earthtones Environmental Justice Art Festival, Committee Member	Jan. 2023 - April 2023
R Data Carpentries Workshop, Helper	June 2022
Eritrean Refugee Centre, Mentor	Dec. 2020 - April 2021
Ethio-Bridge, Mentor	Dec. 2020 - April 2021
Planned Parenthood of Metropolitan, Washington, D.C., Engagement Intern	June 2018 - Aug. 2018
George Washington University Hospital, Volunteer	Jan. 2018 - May 2018

Skills

Computer: R; Google Earth Engine; ArcGIS Pro; Arduino; Bash programming; GitHub; EAGLE;

LoggerNet; CRBasic; Microsoft Office

Languages: English (native), Tigrinya (native)

Research Interests

Urban ecosystem ecology; Ecosystem services; Environmental justice; Sense of place