

ALEXIS MONAE WILSON

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EDUCATION

Stanford University, Department of Earth System Science, Stanford, CA
PhD Student, 2019-Present

Cornell University, College of Agriculture and Life Sciences, Ithaca, NY
B.S. Environmental and Sustainability Sciences May 2019

GPA: 3.800

Concentration: Biogeochemistry Minor: Climate Change

Distinction in Research, Magna Cum Laude

SIT World Learning, International Honors Program, Vietnam, Morocco, Bolivia

Climate Change: The Politics of Food, Water, and Energy Spring 2018

GPA: 4.0

RESEARCH EXPERIENCE

Undergraduate Researcher

January 2016-Present

Dr. Joseph Yavitt

Cornell University, Ithaca, NY

Senior Honors Thesis, Department of Natural Resources, Fahey-Yavitt Lab

Designed and conducted an independent research project on the effect of drought on forest systems. Senior thesis focuses on the effect of drought on litter decomposition. Lab work focuses on understanding the biodiversity and biogeochemical processes in forest and wetland systems.

Summer Research Intern

June 2017-August 2017

Dr. Robert B. Jackson

Stanford University, Stanford, CA

Summer Undergraduate Research in Geoscience and Engineering Program (SURGE)

Department of Earth System Science, Dr. Robert B. Jackson lab

Examined the relationship between edaphic variables and root systems of *Abies Concolor*. This research project included field research in the Sierra-Nevada Mountains, collecting soil and root samples through extensive coring.

Summer Research Intern

June 2018-August 2018

Dr. Steven L. Goodbred

Vanderbilt University, Nashville, TN

Leadership Alliance Summer Research- Early Identification Program

Department of Earth and Environmental Science, Dr. Steven L. Goodbred Lab

Researched the relationship between sediment grain size and toxic Arsenic levels in the Ganges-Brahmaputra delta in Bangladesh. Traveled to Bangladesh to study the Sundarbans and the delta, which included taking sediment and water samples.

TEACHING EXPERIENCE

Undergraduate Facilitator

January 2016-December 2017

Intergroup Dialogue Project

Cornell University, Ithaca, NY

As a trained Intergroup Dialogue Facilitator, I lead weekly classroom sessions with a group of ~20 students. The course focuses on understanding power, privilege, and oppression in society with the hope of empowering people to become drivers of social change. I create weekly lesson plans, lead students in critical dialogue, and grade assignments. I have facilitated for four semesters with courses focusing on Race, Gender, and Socioeconomic Status. I also facilitate workshops for student organizations, professional staff, and faculty in order to teach communication and dialogue skills that are applicable to their personal and professional lives.

HONORS & AWARDS

College of Agriculture and Life Sciences Honors Research Program

Selected students pursue a senior honors thesis

College of Agriculture and Life Sciences Dean's List

Awarded for 8 semesters

SERVICE & ACTIVITIES**Society for Natural Resources Conservation, Cornell University, Fall 2015-Present**

Organize and implement new strategies for increasing and improving sustainability on campus. Public Relations Chair. Using social media as a platform for spreading information and creating awareness of local and world events relating to energy, natural resources, and sustainability.

Young Researchers Program, Cornell University, Spring 2017

Provide mentorship to high school students through weekly meetings in which they gain experience in a research lab and receive advice.

Building Ourselves Through Sisterhood and Service, Cornell University, Fall 2017-Present

Mentor underclassmen women of color and encouraged high academic and personal standards.

CONFERENCES & SYMPOSIUMS**SURGE Final Research Symposium, Stanford University, August 2017**

Oral and Poster Presentation: Examining the Relationship between Edaphic Variables and the Root System of *Abies concolor* in the Southern Sierra Nevada

Ivy League Undergraduate Research Symposium, University of Pennsylvania, November 2017

Poster Presentation: Examining the Relationship between Edaphic Variables and the Root System of *Abies concolor* in the Southern Sierra Nevada

American Geophysical Union Fall Meeting, New Orleans, LA, December 2017

Poster Presentation: Examining the Relationship between Edaphic Variables and the Root System of *Abies concolor* in the Southern Sierra Nevada

Vanderbilt Summer Science Academy Research Symposium, Vanderbilt University, August 2018

Poster Presentation: Examining the Relationship Between Sediment Grain Size and Toxic Arsenic Levels in the Ganges-Brahmaputra Delta in Bangladesh

Leadership Alliance National Symposium, Hartford, CT, August 2018

Oral Presentation: Examining the Relationship Between Sediment Grain Size and Toxic Arsenic Levels in the Ganges-Brahmaputra Delta in Bangladesh

American Geophysical Union Fall Meeting, Washington D.C., December 2018

Poster Presentation: The Effect of Drought on Leaf Litter Decomposition in the Northeastern United States

AFFILIATIONS**Advancing Diversity in Graduate Education (EDGE) Doctoral Fellow, 2019**

Supports the recruitment and academic success of outstanding doctoral students who have the potential to enhance the diversity - broadly defined - of their academic disciplines and fields.

R. Rawlings Cornell Presidential Research Scholars, 2015

Membership awarded to less than 2% of the undergraduate population. Funding is awarded to support their research.

Ronald E. McNair Post-Baccalaureate Achievement Program, 2017

This program prepares scholars for doctoral studies through involvement in research and professional development. Funding is awarded to support their research.

Chi Alpha Epsilon Honor Society, 2017

A Greek letter honor society which promotes high academic standards, excellence, scholarship, leadership, ingenuity, and service.

TECHNICAL SKILLS

Laboratory/Field: Identification of plant, tree, & bird species, soil identification and characterization, identifying Mycorrhizae fungi under a microscope, tree coring, collecting gas samples in anaerobic environments.

Lab instruments: Light microscope, Spectrometer, Malvern 2000, X-Ray Fluorescence

Computer: Thorough knowledge of Microsoft Word, PowerPoint, and Excel, WinRhizo, ArcGIS, Social Media Marketing and Advertising

RELEVANT COURSEWORK

Graduate: Terrestrial Ecology and Biogeochemistry

Undergraduate: Intro to General Chemistry & Organic Chemistry • Environmental Physics • Climate and Global Warming • Calculus • Introductory Field Biology • Intro to Ecology & Intro to Evolutionary Biology • Environmental Chemistry • Biological Statistics • Sustainability Science • Global Biodiversity • Soil Science • Forest Ecology • Climate Dynamics • GIS and Resource Inventory Analysis

EMPLOYMENT HISTORY**Teaching Team Member**

Intergroup Dialogue Project
Cornell University, Ithaca, NY

August 2018-Present

I guide the learning process of multiple co-facilitator pairs leading a section of EDUC 2610. I work directly with students taking EDUC 2610, particularly from weeks 5 to 12 of the semester as three project teams per section complete the Collaborative Learning Project (CLP). Additionally, I serve alongside the entire teaching team as a secondary support to other facilitators who may need guidance on specific aspects of their identity development and facilitation skills. I foster IDP facilitators' learning through contributing to the planning and instruction of EDUC 4826, the Practicum in Intergroup Relations.