

Emma Weissburg

Ithaca, NY |(607) 793-8382 |erw95@cornell.edu

Education

Cornell University, College of Agriculture and Life Sciences
Bachelor of Science | Environmental and Sustainability Sciences
Concentration | Environmental Biology and Applied Ecology
Cumulative GPA: 4.0

Ithaca, NY
Graduated May 29th, 2021
Summa Cum Laude
With distinction in research

Work Experience

Operations Manager; Enveritas

Istanbul, Turkey

December 2023 - Present

- Oversee projects aimed at improving social, economic, and environmental practices in the coffee sector.
- Collaborate with smallholder coffee farms around the world to understand both key challenges, and potential solutions faced by farmers.

Research Assistant; Center for American Indigenous Rural Health Equity

Bozeman, Montana

September 2023 - November 2023

- Collaborated with indigenous communities to promote health equity in rural areas.
- Designed, reviewed, and distributed health packets aimed at improving family wellness.
- Created recipes and games to distribute to families, along with children's books.

Research Assistant; Montana State University Department of Plant Science and Plant Pathology

Bozeman, Montana

August 2023 - November 2023

- Conducted genetic research on Durum wheat.
- Worked in the field and in the lab to create strains with high yield and disease resistance.

Environmental Education Specialist; Delridge Neighborhoods Development Association

Seattle, WA

June 2022 - September 2022

- Designed and implemented an environmental justice program.
- Taught high school interns how to conduct field-based research.
- Wrote lesson plans and field protocols, oversaw research projects, and planned field trips.
- Hired and trained all staff; including ten interns, an assistant, and support staff.
- Created and led professional development activities and community conservation events.
- Collaborated with indigenous tribes, refugee communities, local farmers, and scientists.

Forestry Technician; Resilient Forestry

Seattle, WA

March 2022 - June 2022

- Researched old growth forests in the Olympic Peninsula.
- Collaborated with the US Forest Service to conduct stand exams and carbon plots.
- Assisted with crew logistics: prepared equipment for each week, bought groceries, set up camp, and cleaned and organized gear.
- Worked in a range of conditions, from camping in pouring rain in the Olympic Peninsula, to hiking through snow in sub-zero degree weather in the mountains of Oregon.

Field Biologist; Western EcoSystems Technology, Inc.

Griswold, IA

June 2021 - October 2021

- Conducted intensive ecological monitoring for a wind turbine company.
- Surveyed bird and bat species; learned protocols for handling endangered species.
- Drove on rough terrain using a 4WD vehicle; navigated using a GPS, map, and compass.
- Hiked 3-10 miles a day in up to 110°F weather.

Undergraduate Researcher; Cornell Microbiology Department

Ithaca, NY

October 2018 - May 2021

- Completed a [senior thesis](#) on microorganisms that impact greenhouse gas cycles in wetland ecosystems.
- Grew and isolated archaea and bacteria that are notoriously difficult to grow.
- Performed PCR and gel electrophoresis to genetically sequence microorganisms.
- Designed and performed experiments, collected and analyzed data, and wrote and presented scientific reports.

Laboratory Technician; Smith Allergy and Asthma

Ithaca, NY

June 2020 - September 2020

- Performed COVID-19 tests, allergy diagnostic tests and complete blood counts.
- Collected samples throughout Tompkins County, with a focus on regional nursing homes.

Computer Lab Operator, Cornell IT

Ithaca, NY

April 2019 - May 2020

- Maintained all computers in labs across campus; worked with students and faculty to solve any and all technological problems that arose.

Laboratory and Field Technician; Cornell Department of Entomology

Ithaca, NY

June 2019 - August 2019

- Worked in lab, greenhouse, and field settings to study the ecological interactions between nightshade crops, pollinators, herbivores (beetles), and predators (true bugs).
- Conducted insect observational trials and studied natural pest prevention techniques.
- Maintained colonies of beetles, true bugs, and bees in the lab.

Crew Member; The Student Conservation Association

Yosemite National Park, CA; The Great Smoky Mountains National Park, NC; Denali National Park, AK
June 2016 - July 2016,
July 2015 - August 2015, June 2014 - July 2014

- 2016: Worked on a wilderness restoration crew in Yosemite; lived in the backcountry at 8-14 thousand feet for over one month. Backpacked 5-15 miles every day, often off trail.
- 2015: Maintained a trail in the Smokies; learned to use power tools and park radios.
- 2014: Built a trail in Denali; Work entailed hiking on glaciers, camping in continuous sunlight, and following bear safety protocols.

Certificates and Skills

Certificates: First aid/CPR: issued 06/20/2022, expires 06/20/2024.

Languages: Spanish; intermediate - high level of fluency.

Coding and mapping: Coursework and fieldwork with R, Avenza, ArcGIS, QGIS, GPS, Maxima, Populus, Excel, Word, MS Office products, Vortex, QIIME, BLAST, eBird, BOX, and iNaturalist.

Additional skills: 15+ years of experience running a local farm; experience using camera traps, managing livestock, and trapping and relocating animals. Additional experience operating boats and fishing.