CHARLIE WEISS SHARMAN

SHE/HER

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EDUCATION

University of Washington

Wetland Science and Management Certificate 2023

Franklin W. Olin College of Engineering

Engineering: Robotics 3.8GPA 2020

EMPLOYMENT

US Fish and Wildlife Service and Student Conservation Association

GIS Wetland Intern · Apr. 2022 to Feb. 2023 · Anchorage, AK (Field) and Seattle, WA (Remote)

Updated all wetland boundaries and classifications on Joint Base Elmendorf-Richardson (JBER) for the National Wetlands Inventory (NWI)

- Surveyed over 50 sites on a controlled-access military base to judge wetland characteristics based on vegetation, soils, and hydrology using NWI methods (with Cowardin classifications) in challenging physical conditions
- Digitized over 3000 wetlands in ArcGIS Pro by correlating wetland characteristics in the field to photo signatures in CIR, RGB, and LiDAR imagery and other ancillary
- Presented technical information to a diverse audience of USFWS and JBER partners with reports and presentations (one of which was adapted into NWI training materials after positive feedback from the audience)
- Created an extensive signature library of Cowardin codes with field descriptions, photos, and imagery signatures, available at charliesharman.com/writing-samples.html
- Navigated difficult terrain in adverse weather conditions on foot using GPS and paper maps, and drove a 4x4 vehicle through unmarked and unpaved roads
- Completed a week-long US Army Corps of Engineers (USACE) Wetland Delineation Training (Alaska Region) including classroom and field training

Ecological Succession Field Work

Field Research Assistant · June 2021 · Glacier Bay National Park

Conducted field work in long-term study of primary forest succession

- Safely camped at five backcountry marine environment sites with four other team members, enduring poor weather, biting insects, and bear country over the course of
- Successfully located and re-established all 50 plots (established some 30 years ago) spread throughout rugged backcountry terrain using sketch maps, GPS, compass, and
- Documented plot status, including thousands of tree positions and DBH measurements, as well as quantitative and qualitative descriptions of understory flora, soil sampling, etc.

Washington Conservation Corps

Crew Member, Safety Officer · Oct. 2020 to June 2021 · Renton, WA

Restored native ecosystems on public lands within King County

- Gained a hands-on perspective of how restoration projects are implemented
- Developed strong plant identification skills while personally planting over 4000 native trees, shrubs, and live stakes and removing noxious weeds in all conditions, including areas requiring waders
- Performed intense physical labor (manually digging out Himalayan Blackberry, carrying bundles of live stakes, and using various hand and power tools) for at least 8 hours per day in all weather conditions (freezing, rain, heat)
- As Safety Officer, lead daily talks addressing site conditions, proper gear and conduct, COVID-19 safety protocols, and emergency plans; occasionally conducted safety scenarios

VOLUNTEERING

Seattle Aquarium · Tide Pool Interpreter and Naturalist

Mar. 2022 to Current · Seattle, WA

- · Encourage empathy toward native marine life by guiding guests to gently touch tide pool creatures in an indoor exhibit while sharing interesting facts and stories
- Interpret salmon behavior and importance to the Pacific Northwest to visitors at various parks along the Cedar River during spawning season

Puget Sound Bird Observatory · Bird bander

Aug. 2021 to Oct. 2021 · Graham, WA

· Banded passerine birds on early weekend mornings, including mist-net setup, bird extraction, and age classification using the Wolfe-Rider-Pyle system

SKILLS

TECHNICAL: ArcGIS Pro, ArcGIS Online, Esri Field Maps, Programming (Python, Git, etc.), CAD/Design (Solidworks, etc.), Fabrication (Mill/Lathe, MIG Welding, etc.), Excel TOOLS: Auger, Brushcutter, Pesticide Applicators, Various hand tools