Margaret Hammond

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EDUCATION

Master of Environmental Science and Management, 4.00 GPA (Expected June 2023)
Corporate Environmental Management Specialization
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
    Specialization: Corporate Environmental Management
    Highlighted Coursework: Advanced Data Analysis, Business and the Environment, Earth Systems Science

Bachelor of Science in Environmental Science | Earth Science Minor, *cum laude*, 3.60 GPA (May 2019)
University of Michigan (U-M), Ann Arbor, MI
    Leadership: Night Ride Committee Chair – Alpha Phi Omega, Communications Chair – Delta Gamma

DATA MANAGEMENT & GEOSPATIAL EXPERIENCE

Sustainable Energy Research Assistant – UCSB Bren School, Santa Barbara, CA (11/21–Present)
- Examined 22 company data center Environmental, Social, and Governmental (ESG) documents to collect their reported electricity and water use and add it to Excel Online database of 100+ data centers information.
- Evaluate renewable energy, power use, and water use efficiency for 4 corporations using computer data centers to track the change of green energy efficiency for large scale computing.
- Wrote 4 data center 800-word energy use summaries to be published on a data collection website to educate the public on data center growth and energy efficiencies.

GIS Technician – US Geological Survey (USGS), Denver, CO (7/19–7/21)
- Led creation of beryllium and fluorspar US Mineral Deposit GIS databases containing economic and historical data regarding critical mineral production and potential to ensure no import reliance in the future.
- Recorded occurrence of unknown mine land from 15 states' georeferenced topographic maps to help prevent land mismanagement: plotted 50,0000+ mine data entries using Arc GIS 10.8+.
- Oversaw 6 employees on the process of correctly recording mine feature points and polygons to create a cohesive database for project posterity.

Lake Sediment Research Assistant – University of Michigan Earth Sciences, Ann Arbor, MI (9/17–5/19)
- Surveyed lake-bottom sediment using an Element Material Infrared Analyzer to record carbon and nitrogen levels to evaluate the environmental conditions of an anoxic sinkhole off Lake Huron's northern coast.
- Recorded chemical makeup of anoxic sediment conditions in Excel documents to gain insight about climate change effects on trace metal burial within the Great Lakes.

GIS Capstone – University of Michigan Environmental Science , Ann Arbor, MI (9/18–12/18)
- Mapped data from the Michigan Dept. of Natural Resources and Michigan Breeding Bird Atlas on ArcGIS to study the relationship between Sandhill Crane habitat and population decline from increased hunting.
- Summarized my findings on the possible future decline of Michigan Sandhill Crane populations in a 15-page report, containing 3 ArcGIS maps containing 150+ data entries from conservation and hunting sources to communicate the future of Sandhill Cranes under new hunting laws.

STRATEGIC COMMUNICATIONS EXPERIENCE

Library Engagement Ambassador – University of Michigan Library, Ann Arbor, MI (9/17–5/19)
Promoted library services and resources to students with targeted campaigns; created Canva graphics to share with 1800+ followers on Facebook and Twitter 3 times a week.

Explorer Guide – Michigan Department of Natural Resources, Brighton, MI (5/18–8/18)
Designed and led hour-long, twice-daily educational programs at amphitheater for 100+ total campers per day to increase awareness of invasive species, natural resources, wetlands, and other environmental topics.

SKILLS

Data, Mapping, & Coding: Beginner Microsoft Excel, Intermediate ArcGIS, ArcPro, Beginner R, QGIS, C++
Communication Software: Microsoft Word and PowerPoint, Canva, Zoom, Box, Google Drive