Joshua Paul Cohen

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EDUCATION

Master of Environmental Data Science
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
 Highlighted Coursework: Geospatial Analysis, Statistics, Machine Learning, Environmental Policy Analysis, Data Communication, Climate Modeling
 Highlighted Skills: Python, R, Statistical Analysis
 Involvement: Brengrass (school band)

Bachelor of Science in Environmental Science with a minor in Chesapeake Regional Studies and Music (May, 2020)
Washington College (WAC), Chestertown, MD
 Honors/Awards: Dean's List 2017-2020
 Involvement: Student Environmental Alliance, Wacappella

Additional Education: GIS Specialization (Certificate Program), University of California, Davis (January, 2024)
 Four course online ArcGIS Pro program through Coursera, including training on land use classification and analysis, ModelBuilder, DEMs and watershed analysis, and site suitability analysis.

DATA SCIENCE PROJECTS

Remote Sensing of Brush Clearance to Enhance Wildfire Preparedness (1/25–6/13)
- Investigated the possibility of using Santa Barbara County Fire Department Inspection data to build ML that predicts compliance with defensible space rules in Santa Barbara County.
- Utilized Python and Planet Labs API.

Spider Traits Across Biomes (4/25–5/25)
- Ingestion of NMBE and World Spider Trait Data with WWF ecoregions data into a SQL database to cross reference spider species traits by biome.

Pesticides and Bee Diversity at the Golden Coast (10/24–12/24)
- Geospatial/statistical analysis concerning the effect of pesticide and land use on bee species richness.

PRIMARY EXPERIENCE

Desert Tortoise Transect Technician – Great Basin Institute, Las Vegas, NV (3/24–5/24)
- Conducted line distance transect sampling to collect *G. agassizii* population data for more than 300 km.
- Utilized Survey123 to record data.

Land Steward Intern – Friends of Hopewell Valley Open Space, Titusville, NJ (6/23–12/23)
- Completed stewardship around NJ by eradicating thousands of invasive plants, investigating the migration habits of rare snake species, and maintaining trails.
- Collected 100+ invasive species data points with Field Maps.
- Utilized ArcGIS Pro to process 3000+ geolocated invasive species data points for regulatory documents.

Environmental Technician – Maryland Department of Natural Resources, Swanton, MD (8/22–11/22)
- Visualized and analyzed water quality data with ArcMap.
- Collected water samples for 10+ lakes and rivers in eastern Appalachia
- Identified 20+ aquatic plant species and investigated invasive Hydrilla populations.

Chesapeake Conservation Corps Member – Interfaith Partners for the Chesapeake, Annapolis, MD (8/21–8/22)
- Managed database of 1000+ individuals and 200+ faith congregations with Airtable.
- Spearheaded grant acquisition, and projects in database organization & developing environmental programming materials.

ADDITIONAL EXPERIENCE

Teaching Assistant – UCSB (Geography and Biology), Santa Barbara, CA (9/24–3/25)
Pinyon-Juniper Field Technician – UNLV, Las Vegas, NV (6/24–8/24)
Corps Member – AmeriCorps NCCC, Aurora, CO (11/20–7/21)
Butterfly House Intern – Ladew Topiary Gardens, Monkton, MD (6/19–8/19)

SKILLS

Programming Languages and Software: Python, R, SQL, ArcGIS Pro