

Education

GIS Capstone Certificate, University of Wisconsin - Madison

August 2018

Capstone Internship: In collaboration with The Field Museum – Determining Conservation Priority Areas in Guyana

Master of Science, Ecology, Kent State University, Kent, Ohio

May 2016

Master's thesis focused on how nutrients affect microbial and zooplankton communities temporally and spatially in Lake Erie and Grand Lake St. Mary's (Ohio) during harmful cyanobacterial blooms.

GPA: 3.8

Bachelor of Science, Zoology, Kent State University, Kent, Ohio

May 2011

GPA: 3.48

Major GPA: 3.52

Work Experience

Aldo Leopold Nature Center – Madison, Wisconsin

April 2016 – 2017

Teaching Naturalist – (Seasonal full time 2016; Part-time 2017)

- o Educated youth (ages 2 – 12) and adults in various place-based environmental education programming (basic ecology, invasive species, aquatic/wetland ecology, botany, invertebrates, reptiles and amphibians, fish, mammals, birds, geology, local Wisconsin natural history, flora/fauna identification, climate change & weather)

USGS National Wildlife Health Center – Madison, Wisconsin

February 2017 – July 2017

Biological Sciences Technician (40-hour work week)

- o Compiled and analyzed data; Conducted literature searches; Wrote summary reports for stake holders

USGS-North East Amphibian Research and Monitoring Initiative

March 2015 – October 2015

Patuxent Wildlife Research Center – Laurel, Maryland

Amphibian Research Technician – Student Contractor (50 – 60-hour work week)

- o Conducted vernal pool, wetland and stream inventory surveys for 21 amphibian species
- o Assessed the population of an endangered species - Shenandoah Salamander in Shenandoah NP, VA
- o Habitat assessment of wetlands (vernal pools and marshes); measured pH, temperature and conductivity for basic environmental parameters
- o Mapped new study sites using Trimble GPS units; navigated to study sites using Etrex GPS, maps, & compass
- o Entered field data into Microsoft Access database; cross checked field notes (hard copies) and then transferred to database

Kent State University – Department of Biological Sciences – Kent, Ohio

August 2011 – March 2015

Field/Laboratory Researcher (August 2011 – March 2015 (20 hours researching per week/semester))

- o Analyzed bacterioplankton communities in surface water samples from Lake Erie, Grand Lake St. Mary's and Old Woman Creek using molecular techniques such as DNA extraction, PCR, T-RFLP, pyrosequencing (60 samples)
- o Calculated diversity indices and species indicator analyses on freshwater zooplankton communities
- o Inputted data using excel, analyzed data using R, JMP, and SPSS statistical software
- o Mentored undergraduates and helped guide them through the scientific process
- o GIS; Created maps of research sites using ArcMap
- o Conducted geospatial analysis of data using the following statistics: PCA, NMDS, RDA, Cluster Analysis
- o Supported by USGS Grant #104B (2012-2013)

Lecturer

- o Life on Planet Earth; 3 credit hours (January – May 2014)

- Taught 165 students; prepared lecture coursework, PowerPoints, assignments and exams

Teaching Assistant

- General Ecology Lab (50 students/semester) (August – December 2011 and August – December 2013)
- Tropical Field Ecology and Conservation Biology (Costa Rica) (December 2011 – January 2012; December 2013 – January 2014)
- Invertebrate Zoology Lab (January – May 2012)
- Vertebrate Zoology Lab (January – May 2012)

Cleveland Museum of Natural History

June – August 2010; December 2010 – January 2011

Kirtlandia Society Adopt-A-Student Intern for Wildlife Resources (Summer 2010; 40hrs/week; 8 weeks)

Relief Wildlife Specialist (Winter 2010-2011; 20hrs/week; 4 weeks)

Relevant Coursework

- GIS Applications
- Introduction to GIS
- Advanced Quantitative Methods
- Interactive Cartography and Geovisualization
- Introduction to Cartography
- Introduction to Remote Sensing

Continuing Education Workshops/Certifications

- CPR, AED, First Aid certified (March 2017)

Conferences

- Poster presentation, Annual Water Symposium, Kent State University (October 2015)
- Poster presentation, Annual Water Symposium, Kent State University (October 2013)
- Oral presentation, National Estuaries Day, Old Woman Creek National Estuarine Research Reserve (September 2013)
- Oral presentation, International Association for Great Lakes Research 2013 Conference (June 2013)
- Poster presentation, American Geophysical Union Fall Meeting (December 2012)

Technical Skills

- ESRI ArcGIS 10.x (researching and obtaining data, basic map making, georeferencing, digitizing, writing queries, adding data to existing datasets, geoprocessing)
- Maintaining databases, data organization
- JavaScript coding (leaflet; d3)
- HTML
- Basic Programming Skills
- Basic Python Skills
- Designing and editing maps in Adobe Illustrator
- Analyzing and interpreting aerial/satellite images
- Image enhancement in Adobe Photoshop, ENVI
- Supervised and Unsupervised Classification (ENVI, R)
- Inputting and managing data into Microsoft Access
- Wetland Delineation
- Experience using Science on a Sphere (SOS) technology as teaching aid
- Microsoft Word, Excel, PowerPoint, Access
- Data analysis using R statistics, JMP, SPSS statistical software
- Comfortable interpreting results and writing up summary reports
- Confident, capable, and experienced communicator to large and small groups (general public and scientific peers)
- Confident as an independent worker and as a collaborator on team projects