Lauren K. Pearson

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Education

University of Iowa   Expected Graduation: May 2023
Bachelor of Sciences
    Major: Environmental Bioscience with a Sustainability Certificate
    Minors: Biology & Geography

Work History

Undergrad Research Assistant - Dr. Dannenberg & Dr. Meerdink   01/2022 - 08/2022
- Our team conducted field research on the physiological effects of Bur Oak blight on Bur Oaks in northwest Iowa
- Measured leaf photosynthesis and respiration rates using a LICOR Portable Photosynthesis System to see how blight affected photosynthesis and respiration
- Collected multispectral measurements of leaves using an ASD Field Spectrometer to see how blight affected the color of the leaves
- Used R programming to compile weather station data into usable excel sheets and convert data from the LICOR and spectrometer into user friendly graphs
- Used ArcGIS to map out trees infected with blight and pinpoint the ones in our study
- Aided in data analysis and journal article writing
    - https://storymaps.arcgis.com/stories/ffa3a4f4501c4863af79591c50e5e9b1

Cambus - University of Iowa   Iowa City, IA 04/2022 - Current
- Clean driving record with a Class C CDL
- Transported passengers in a safe and pleasant manner
- Allowed community engagement and public speaking

Snapper's - Bartender & Server   Okoboji, IA 05/2022 - 08/2022
- Successfully worked in a fast-paced environment
- Solved customer conflicts and problems
- Showed leadership by being trusted with tip outs and registers
- Trained new servers and bartenders

Utah DNR - AIS Wildlife Technician   Bullfrog, UT 05/2021 - 08/2021
- Inspected and decontaminated at-risk boats to prevent the spread of Quagga Mussels
- Educated boaters about invasive Quagga Mussels
- Worked with the National Park Service to ensure boater compliance

Menards - Sales Associate   Davenport, IA 01/2018 - 08/2019
- Evaluated garden department products for quality and quantity issues
- Kept all documentation and records accurate and up to date online
- Entrusted with making the layout of products

Relevant Coursework

Environmental Remote Sensing:
- Used Landsat imagery, normalized difference vegetation index (NDVI), and change detection software in Erdas Imagine to visualize the extent of burned vegetation from the 1988 Yellowstone National Park wildfire.

Foundations of GIS:
- Used ArcGIS software to visualize how the average amount of rainfall affects the average temperature in each U.S. state from 2008 to 2020.

Geographic Visualisation:
- Used GitHub, software to publicly share code, and JavaScript to create interactable maps

Independent Study:
- Researched how vapor pressure deficit (VPD) and water flux changes during the day vs night in plants.
- Used R programing language to create a code to pull MACA and AmeriFlux data into CSV files so they could be easily managed and analyzed to create visuals representing the results
- Wrote final research paper compiling found results and visuals

Accomplishments

Division 1 Athlete: Senior on the University of Iowa Women's Rowing Team
Certifications: Open water scuba diving, lifeguard, Class C CDL