Rebecca Barbanell

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EDUCATION

Willamette University | Portland, OR | M.S in Data Science | August 2023

Willamette University | Salem, OR | B.S in Data Science | May 2023

TECHNICAL SKILLS

R, QGIS, Arc Pro, Jupiter Lab, Python, Java-Script, Machine Learning, Survival Analysis, SQL, Multi- Disciplinary Coordinator

PROFESSIONAL EXPERIENCE

Ness of Brodgar Archaeological Site | Data Management | Orkney Islands, Scotland | July 2022 - Present

- Created a standardized system for naming and compiling samples which streamlined the data collection process and increased efficiency by 75%.
- Implemented a python file crawling script to clean old excel data by updating to the new standardized data format, allowing for more accurate data analysis.
- Used X-Ray Fluorescence spectrometer (XRF) to generate geochemical data of the major and minor trace elements from the soil samples collected at the archaeological dig.
- Managed the communications, planning, and data model for a multidisciplinary team to build a road map of necessary data visualization tools and improvements.
- Gave presentations on archaeological and data science concepts for the Ness of Brodgar's "Open Day" to the public, building awareness and enthusiasm for the project continuation of research after the site is completed.

Seattle Central College | Mathematics Tutor | Seattle, WA | October 2019 - August 2021

- Specialize as an individual tutor, simplify math concepts, and coach students to think critically to solve problems.
- Improve tutee comprehension and increased competence while fostering confidence for success. Maintained a 98% tutee satisfaction rating.
- Cultivate a fun and interesting learning environment which encourages questions and discussion.

LEADERSHIP + VOLUNTEERING

President of WiSE Club | Women in Science and Engineering | Seattle Central College | February 2019 – March 2020

- Coordinated fifteen professional engineers and three Seattle Central alumni and 30 volunteers and a student audience of 165+ for Engineering Mentor Night.
- Planned, created, and implemented highly effective club plans and agendas while informing club members.

PROJECT

High-Performance Computing Bootcamp | Sustainable Horizons Institute | Lawrence Berkeley National Laboratory | August 2023

- Used jupyter notebook and IRIS API tokens to log into Permitter supercomputer at Lawrence Berkeley National Laboratory to conduct analysis of large data sets.
- Hands on experience on python code to make data driven choices by analyzing energy consumption of different super computers around the world.
- Learned about power infrastructure and reinforced my commitment to promoting energy justice and environmental sustainability in computing.