

Rebecca Barbanell

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I recently earned my master's degree as a non-traditional, first-generation data scientist who is enthusiastic about learning new skills. I approach problems with creativity and apply a multidisciplinary perspective to leverage my analytical abilities, ensuring the production of trustworthy, data-driven results. I specialize in crafting unique solutions that guarantee accuracy and effectiveness in data processing. By harmonizing diverse data streams, I excel in inclusive teams and achieve success in dynamic projects. Additionally, I promote critical thinking with a strong emphasis on environmentally sustainable practices. I am seeking the right team where we can highlight our strengths, address weaknesses, grow together, and make awesome discoveries.

Work Experience:

Data Management at Ness of Brodgar Archaeological Site | July 2022 – Present

- Spearheaded the development of a standardized system, achieving a 75% increase in data collection efficiency.
- Engineered Python scripts to clean Excel data, ensuring precise analysis in the new standardized format.
- Utilized X-Ray Fluorescence spectrometer (XRF) for geochemical data on trace elements.
- Orchestrated successful communications, planning, and data modeling for a multidisciplinary team.
- Presented sessions on archaeological and data science concepts, heightening public awareness.

Mathematics Tutor at Seattle Central College | October 2019 – August 2021

- Specialized as an individual tutor, simplifying math concepts for critical thinking.
- Achieved and maintained a 98% tutee satisfaction rating.
- Cultivated a dynamic learning environment, encouraging questions and discussion.

Programs:

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|----------|---------------|--------|
| • R | • SQL | • Java |
| • Python | • Java Script | |
| • QGIS | • Docker | |

Education:

Master of Science, Willamette University, Portland, August 2023

Bachelor of Science, Willamette University, Salem, May 2023

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 165+ students.
- audience of 165+ for Engineering Mentor Night.
- Organized and implemented effective club plans, achieving engaging sessions.

Projects:

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

- Executed the use of Jupyter Notebook and IRIS API tokens to log into Permitter supercomputer at Lawrence Berkeley National Laboratory for analysis of large datasets.
- Demonstrated firsthand expertise with Python code, achieving the ability to make data-driven choices by analyzing the energy consumption of different supercomputers worldwide.
- Developed insights into power infrastructure, reinforcing commitment to promoting energy justice and environmental sustainability in computing.