Kierstin Miller

DATA SCIENTIST

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PROFILE

I am a problem-solver. From characterizing hazardous waste sites, to sequencing genomes, to designing public health materials, to expanding a non-profit, to assessing historic architecture, to researching emerging technologies, to teaching 7th grade Hebrew–I wield a diverse skill set that complements a wide array of interests. The common thread that ties my experience together is my ability to learn all that I can to solve any problem that comes my way. That a career in data science not only provides the opportunity to solve problems, but also necessitates iterating to achieve more robust solutions is a primary motivator in my choice to pursue this career change.

SKILLS

Python, SQL, R, ArcGIS, MS Excel, Adobe Photoshop, Experimental Design, Analytical Chemistry and Biochemistry, Molecular Methods and bioinformatics, Environmental Engineering and Compliance, Waste treatment systems, Construction QA/QC, Classroom instruction

EXPERIENCE

Engineer | EA Engineering, Science, and Technology Inc., PBC

FEB 2017 - 2022, DENVER, CO

- Navigated all phases of environmental remediation projects for Federal, State, and private clients via data collection, data analysis, modeling, engineering design, reporting, and management of field events.
- Interpreted and summarized complex, cross-discipline scientific research to support team and client understanding.
- Designed and executed bench-, pilot-, and field-scale experiments to test treatability and assess novel technologies and methods.
- Designed and upgraded management programs and analysis templates for laboratory and financial project data.

Graduate Research and Teaching Assistant

AUG 2014 - DEC 2016, CORVALLIS, OR

- Designed and executed research projects that included:
    - Full-cycle metagenomic analysis from DNA extraction through bioinformatic interpretation.
    - Design, assembly, and maintaintenence of bench-scale bioreactors.
    - Analytical chemistry and the development of predictive kinetic models.
- Supervised undergraduate researchers.
- Educated students through classroom and laboratory instruction.

EDUCATION

BrainStation | Diploma Candidate, Data Science

JAN 2022 - APR 2022

Oregon State University | MS in Environmental Engineering

AUG 2014 - DEC 2016, CORVALLIS, OR

MWH/AAESP Master's Thesis Award Nominee, Oregon Lottery Scholarship

Colorado State University | BS in Biochemistry, BA in Art History, Chemistry minor

AUG 2006 - DEC 2010, FORT COLLINS, CO

Biochemistry Honors Scholar, University Honors Scholar, "Faces of the Class of 2010" Outstanding Graduate

PROJECTS

Master's Thesis (2017): *Effect of Landfill Leachate Pretreatment and SBR Operational Parameters on Nitrification Efficiency and Activated Sludge Microbial Populations*

Undergraduate Honors Thesis (2010): *Using siRNAs to Combat Influenza A*

Undergraduate Honors Thesis (2010): *Conquest, Clash, and Convergence: Picturing Catholicism through Feather Mosaics and Pasta de Caña de Maíz Sculpture in Early Colonial Mexico*