Zoë Camille **McBride**, P.E.

SENIOR DATA SCIENCE ANALYST

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EXPERIENCE

Growing Energy Labs, Inc (Qcells Geli)
San Francisco, CA

SENIOR DATA SCIENCE ANALYST
November 2021- May 2023

- Evaluate impact of new forecasting models and optimization features on projected bill savings and revenues across different markets. Use Python to generate simulation scripts and Airflow to execute the scripts. Extract resulting data from a Postgres database and Amazon's EFS. Use primarily pandas and seaborn to post-process data, analyze results and create visuals.
- Act as technical lead for energy analytics team by:
  - developing process work flows and setting default common processes
  - developing analytics processing scripts and maintaining the energy-analytics repository
  - providing support and debugging when an energy analyst is blocked
  - communicating new algorithmic features to energy analysts, business development, and sales
- Evaluate Geli's current commercial algorithm performance, test performance under proposed changes to the algorithms, and implement new algorithms into the simulation workflow.
- Assist in weather service analysis and weather forecast feature selection.

ENERGY ANALTYICS ENGINEER
October 2019 - November 2021

- Formulate, run, and analyze batch energy storage simulations to aid strategic and data-driven engineering, sales, and business decisions.
- Analyze and simulate building load profiles and solar photovoltaic data to quantify the energy storage value for potential projects.
- Research new market storage incentives and prototype modeling solutions to provide project-specific available revenue.
- Conduct pre-commissioning, measurement and verification on new and existing projects to optimize ongoing battery performance.
- Understand different tariff structures within a given utility and across domestic and international markets.
- Translate between sales, engineering, and product teams internally on multiple topics including product strategies, product enhancements and opportunities for growth.

Thornton Tomasetti
San Francisco, CA

SUSTAINABILITY SENIOR ENGINEER
June 2015 - October 2019

- Design and develop web-based platform for conducting water balance calculations in early phases of a project's design, looking at both building water demands and available onsite supplies (rainwater, graywater, blackwater).
- Analyze means of improving water efficiency for a project. Promote water reuse technologies.
- Conduct life-cycle assessments to quanitfy the environmental impacts of a project's building materials.
- Study feasibility of photovoltaics, including providing solar glare hazard analysis.
- Interface with design and construction teams and educate on energy, water, and material sustainability considerations for a project.
- Participate in and document credits for LEED BD+C and ID+C projects.

Civil & Environmental Engineering Department, UC Berkeley
Berkeley, CA

GRADUATE STUDENT INSTRUCTOR
January 2016 - May 2016

- Taught "Introduction to Computer Programming for Engineers", a ~450 student course that focused on MATLAB.

SKILLS

Software: Python (pandas, numpy, seaborn, matplotlib, datetime), SQL (Postgres), Airflow, Git, MATLAB, R, LaTeX
Other Technical: QGIS, ArcGIS, Microsoft Office, Adobe Illustrator, OneClick LCA, EnergyPro, Revit, Rhino, Grasshopper
Language: English, Spanish, Hebrew

EDUCATION

University of California, Berkeley
August 2015 - May 2016
M.S., Civil and Environmental Engineering - Energy, Civil Infrastructure, and Climate. GPA: 3.81.

University of California, Berkeley
August 2011 - May 2015
B.S., Environmental Engineering Science. Upper-Division Technical GPA: 3.7. Minor in Music.

ACHIEVEMENTS

Professional Engineer (PE), 2019 - Present
LEED AP BD+C, 2016 - Present
Women in Construction, Constructech Award, 2019
Author, Journal of Geophysical Research, 2014
Runner, Laura Norris Running, 2021 - 2023
Violinist, UCSF Strings Collaborative, 2017 - 2020
Violinist, UC Berkeley Symphony, 2013 - 2015