

# Zoë Camille McBride, P.E.

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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 revenues across different energy markets. Use python, Airflow, SQL, and data visualization tools.
- 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 and test performance of proposed changes to the algorithm.
- Assist in weather service analysis and weather forecast feature selection.

#### Energy Analytics Engineer

October 2019 - November 2021

- Formulate, run, and analyze energy storage simulations to aid data-driven decisions and quantify the energy storage value.
- Research new storage incentives and prototype modeling solutions to provide project-specific available revenue.
- Translate between sales, engineering, and product teams on product strategies and product enhancements.

### 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).
- Conduct life-cycle assessments to quantify the environmental impacts of a project's building materials.
- Study feasibility of photovoltaics, including providing solar glare hazard analysis.
- Lead design and construction teams on energy, water, and material considerations for LEED certification.

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## SKILLS

**Data Science:** Python (pandas, numpy, sklearn, seaborn, matplotlib, datetime, PuLP, cvxpy), SQL (Postgres)

**Software Engineering:** Git, Workflow automation (Airflow), CI/CD (Jenkins), Containerization (Basic Docker & Kubernetes)

**Data Analysis & Visualization:** MATLAB, R, LaTeX, QGIS, ArcGIS, Adobe Illustrator

**Languages:** English, Spanish, Hebrew

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## EDUCATION

### University of California, Berkeley

M.S., Civil and Environmental Engineering - Energy, Civil Infrastructure, and Climate

August 2015 - May 2016

B.S., Environmental Engineering Science. Minor in Music

August 2011 - May 2015

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## 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