



# Laura Shi

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## **ENERGY AND ENVIRONMENTAL ECONOMICS, INC.** *Consultant*

Boston, MA

Laura Shi works in E3's Asset Valuation and Markets practice area with a focus on wholesale electricity markets and price forecasting. Laura joined E3 from the Power Markets Modeling team at Guidehouse, where she conducted analysis on asset valuation engagements for resource developers using production cost and dispatch optimization models in PSO and PLEXOS.

## **GUIDEHOUSE** *Consultant, Energy, Sustainability & Infrastructure Practice*

Boston, MA  
July 2022 – April 2024

- Key technical member of the power market modeling team with extensive experience with PSO and PLEXOS.
- Developed power and gas market scenarios, evaluated new energy technologies, ran market simulations, analyzed results, produced deliverables tailored to client needs; specialized in complex modeling of energy storage technologies.
- Strong understanding of the North American energy, capacity, and ancillary service markets.
- Led and managed projects from kick-off to delivery; developed and strengthened client relationships.
- Supervised and mentored junior staff; reviewed deliverables and analyses.

## *Consulting Intern, Energy, Sustainability & Infrastructure Practice*

San Francisco, CA  
June 2021 – August 2021

- Conducted wholesale energy market modeling and forecasting; wrote market reports for utility company clients to make informed and economically feasible decisions on renewable energy resource deployment.
- Analyzed and systematically identified anomalies in large data sets using Python, SQL for a high-stakes client project.
- Developed a tangible action plan to improve internal communication between solutions and account teams to drive company growth and innovation; presented proposal to senior level leadership.

## **TERRAPOWER** *Mechanical Design Intern*

Bellevue, WA  
June 2020 – August 2020

- TerraPower is a nuclear start-up company founded by Bill Gates to take action in developing advanced nuclear energy to meet growing electricity needs, mitigate climate change and lift billions out of poverty.

- Analyzed a database of over 2,000 print reports, technical drawings, and diagrams to create 700+ robust SolidWorks parts and produced accessible documentation of historical models to increase efficiency and reduce costs of ongoing Natrium Sodium Fast Reactor plant design work.

## **LAWRENCE BERKELEY NATIONAL LABORATORY (LBNL)**

*Research Affiliate*

Berkeley, CA  
November 2019 – June 2022

- Head undergraduate researcher in the development of a web-based software framework that uses natural language processing techniques and transformer models in Python to automatically retrieve, categorize, and recommend nuclear science papers for U.S. Nuclear Data Program applications.
- Selected among hundreds of nationwide research projects to present work at U.S. Department of Energy (DOE) Office of Science sponsored conferences in June 2021, September 2021, April 2022, and June 2022.

## **Education**

University of California, Berkeley  
*B.S., Nuclear Engineering*  
*Minor, Electrical Engineering & Computer Sciences*

Berkeley, CA  
May 2022