

**ENERGY AND ENVIRONMENTAL ECONOMICS, INC.**  
*Senior Managing Consultant*

San Francisco, CA

Ms. Li joined E3 in 2017. Her work spans across the bulk grid and focuses on the development of market price forecasting, especially E3's market price forecasts for the WECC region. She has led and managed many E3 projects delivering revenue forecasts for renewable resources including storage forecasts and transmission valuations. She also manages projects that rely on PLEXOS and production simulation modeling. Prior to E3, Ms. Li studied rural electrification and developed economic planning models for under-electrified countries. Ms. Li received an M.S. in Technology and Policy from the Massachusetts Institute of Technology and holds a B.S. in Chemical Engineering from the University of California at San Diego.

Recent projects include:

**Salt River Project, Utility Data Benchmarking (2023).** Managed a team that collected and maintained information on different local distribution companies in the WECC. Data included integrated resource planning data for utilities as well as interconnection data.

**Confidential Storage Developers, Storage Revenue Forecasts (2022-2023).** Managed multiple E3 projects examining market developments in a given region and/or forecasting revenue streams from different products using E3's market price forecasts. Communicated the implications of changing markets and pricing and their impacts on different revenue streams.

**MIT ENERGY INITIATIVE**

**ARPA-E: SMART-DS PROJECT**

*Research Assistant*

Cambridge, MA

July 2016 – January 2017

- Worked with a small team to validate a novel U.S. electric distribution network planning tool in its early stages of development.
- Focused on data compilation, and the computation of operational and design metrics and statistics in MATLAB to develop a data driven characterization of the existing distribution network.

**MIT TATA CENTER FOR TECHNOLOGY AND DESIGN**

*Tata Fellow*

Cambridge, MA

August 2014 – July 2016

- Studied the effects of electricity policy and regulations on rural electrification, with a focus on understanding how quantitative models can assist with the planning of electricity networks (as part of the MIT Universal Energy Access research group).
- Created a computational microgrid planning tool (MATLAB based) which sizes generation and simulates hourly operations (based on techno-economic factors and input selections) to aid in the decision-making process of rural microgrid design.

- Research involved extensive international travel and collaboration with local stakeholders and partners in India and Rwanda.
- Contributed to research analyzing the greenhouse gas implications of Canadian liquefied natural gas exports.

### **ELECTRIC POWER RESEARCH INSTITUTE (EPRI)**

*Project Engineer*  
*Technical Assistant II*

Palo Alto, CA  
June 2013 – August 2014  
May 2012 – June 2013

- Contributed to technical research projects assessing the environmental impacts of the electricity system, focusing on water, shale gas, power plant waste management, and multimedia issues involving power plant pollutants.
- Co-authored technical reports, and participated in oral and technical communications.
- Co-managed the associated review and revision processes of a study on the environmental and policy implications of shale gas production.

### **NANOSYS INC.**

Production Chemist  
2012

Palo Alto, CA  
September 2011 – April

- Supported CdSe nanoparticle manufacturing, process scale-up and development
- Performed multi-step synthetic chemistry following standard operating procedures
- Utilized air-free techniques for synthesis and subsequent processing of materials

### **TAO NANOENGINEERING RESEARCH LAB**

Research Assistant

La Jolla, CA  
July 2010 – September 2011

- Studied quantum dot and nanoparticle assembly strategies for the development of tunable plasmonic nanostructure systems
- Planned and conducted quantum dot synthesis experiments to optimize particle shape and size
- Performed surface modification and characterization of quantum dot nanoparticles and photonic nanocrystals
- Planned and conducted self-assembly studies that focus on selective binding strategies of gold nanorod and CdSe quantum dots

## Education

Massachusetts Institute of Technology  
*S.M. in Technology and Policy*

Cambridge, MA  
June 2016

University of California, San Diego  
*B.S. in Chemical Engineering*  
*Cum Laude*

San Diego, CA  
June 2011

## Technical and Peer-Reviewed Papers

1. Kasumu, A., Li, V., Coleman, J. W., Liendo, J., Jordaan, S. 2018. "Country-level Life Cycle Assessment of Greenhouse Gas Emissions from Liquefied Natural Gas Trade for Electricity Generation." *Environmental Science and Technology*. Accepted.
2. Coleman, J., Kasumu, A. S., Liendo, J., Li, V., Jordaan, S. M. 2015. "Calibrating Liquefied Natural Gas Export Life Cycle Assessment: Accounting for Legal Boundaries and Post-Export Markets." *Canadian Institute of Resources Law*. LNG-OP49.
3. Electric Power Research Institute. 2014. "Use and Environmental Fate of Bromine in Power Plants." Palo Alto, CA.
4. Electric Power Research Institute. 2013. "Shale Gas Production in the United States: Environmental and Economic Resource Challenges and Opportunities." Palo Alto, CA. 3002002014.