

Liyang Wang, CEM, EIT
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Education

University of California, Berkeley 2020 – 2022 (expected)
Master of Science, Energy & Resources Group

University of Massachusetts, Amherst 2011- 2014
Bachelor of Science, Mechanical Engineering
Emphasis: energy efficiency and renewable energy

Research Experience

Lawrence Berkeley National Laboratory, Berkeley, CA January, 2017 - Present
Senior Research Associate (04/2019 – Present)

- ❖ Develop programs that accelerate the adoption rate of distributed energy resources (DER) technologies
- ❖ Identify and research consumer and organizational behavior regarding technology adoption
- ❖ Develop semi-automated tools using Python and R to analyze qualitative and quantitative data (i.e. energy consumption, survey data, purchasing activities, interview data, etc.)
- ❖ Lead the design of emerging technology programs by identifying high impact technologies and quantifying the lifetime energy savings of those technologies
- ❖ Create survey and conduct interviews targeted at key stakeholders in industry and academia regarding technology adoption and translate survey results into actionable items and insightful conclusions
- ❖ Provide guidance to other team members on research methods, research project background, and knowledge regarding energy technologies, policies, and emerging technologies

Research Associate (01/2017 – 03/2019)

- ❖ Supported research projects related to implementation and evaluation of sustainable purchasing programs for Federal Energy Management Program (FEMP)
- ❖ Collected and analyze primary data regarding energy technology purchasing activities
- ❖ Supported ongoing improvement of programmatic support of organizational change in federal agencies regarding achievement of federal sustainability goals
- ❖ Conducted technology and market assessment for emerging technologies and calculate their energy savings potential
- ❖ Drafted guidelines for Department of Energy's Green Lease Leader program

Industry Experience

Eversource Energy, Westwood, MA
Energy Efficiency Consultant

July, 2014 - December, 2016

- ❖ Developed energy efficiency incentive program structure, process, and incentive rate
- ❖ Collaborated with designers and building owners to implement energy efficiency projects for 100+ buildings across all business sectors
- ❖ Utilized Python and excel to analyze years of historical energy consumption data for demand reduction and energy conservation measures implementation purposes
- ❖ Researched and assessed emerging energy efficiency technologies for pilot studies
- ❖ Presented incentive programs, data findings, and lessons learned at design charrettes, national conferences and corporate meetings

National Grid, Waltham, MA

June, 2013 - September, 2013

Engineering Intern

- ❖ Collaborated with engineers to implement smart thermostat pilot (Nest & EcoBee)
- ❖ Calculated and analyzed energy saving loads for energy conservation measures
- ❖ Researched designs for smart grid pilot and demand response program
- ❖ Assisted Transportation Engineers in deploying 50 EV charging stations in MA and NY

BEAM Energy & Engineering, Boston, MA

June, 2012 - September, 2012

Project Manager

- ❖ Assisted in the design of utility-scale Solar PV systems
- ❖ Utilized ArcGIS, RETScreen, and NREL SAM to create solar potential maps, energy and financial analysis for 10+ PV Installation at landfills, airports and rooftops
- ❖ Drafted a technical design and financial proposal for government agency

Other Relevant Experience

Engineers Without Borders-UMass Chapter September, 2012 – May 2014

Treasurer and Local Solar Project Manager

- ❖ Researched and implemented environmentally sustainable and economical way of obtaining clean water in Namawanga, Kenya
- ❖ Traveled to Kenya in January 2014 to build an iron-removal system for a contaminated well in the Namawanga community with a team of 8 engineering students and a professor
- ❖ Led a team of 5 students to implement solar PV systems for UMass Amherst
- ❖ Managed the finances of the Chapter and compiled donation information for Engineers Without borders-USA

Conference Presentations

Liyang Wang and Molly Morabito, “*Your Guide to Carbon-Conscious Purchasing*”. Presented at the Sustainable Purchasing Leadership Council Summit 2020

Liyang Wang, Molly Morabito, and Christopher T. Payne, “*Identify Organizational Barriers and Opportunities in Clean Energy Technology Adoption for Large Institutions*”. Presented at Behavior, Energy & Climate Change Conference 2019

Liyang Wang, “Leverage Procurement Data to Achieve Energy Savings and Improve Program Effectiveness”. Presented at Federal Environmental Symposium 2019

Molly Morabito and **Liyang Wang**, “*Understanding the Significance of Energy-Efficiency in the Federal Procurement Community*”. Presented at Federal Environmental Symposium 2019

Michael Clemson, **Liyang Wang**, and Joe Fullerton, “*Accelerating Clean Energy Procurement at CSU and UC*”. Presented at the California Higher Education Collaborative Conference 2019

Liyang Wang and Sravan Chalasani, “*Leveraging Procurement Data to Achieve Energy Savings and Improve Program Effectiveness in the Federal Sector*”. Presented at the Sustainable Purchasing Leadership Council Summit 2019

Liyang Wang and Christopher T. Payne, “*Changing Institutional Procurement Behavior to Achieve Energy Savings*.” Presented at the 20th biennial ACEEE conference on Energy Efficiency in Buildings, 2018

Liyang Wang and Christopher T. Payne, “*Measuring Impacts of Institutional Change Workshops given at BECC*”. Presented at the Behavior, Energy & Climate Change Conference, 2017

Liyang Wang and Peter Klint, “*Emerging Technology to Energy Efficiency Program Adoption*”. Presented at the Northeastern University Energy Conference, 2016

Publications & Working Papers

Wang, Liyang, Morabito, Molly, Christopher T. Payne, and Gerald Robinson. “*Identifying Institutional Barriers and Policy Implications for Sustainable Energy Technology Adoption Among Large Organizations in California*”. Energy Policy, 2020 (working paper)

Wang, Liyang and Payne, Christopher T. “*Changing Institutional Procurement Behavior to Achieve Energy Savings*”. ACEEE’s Summer Study on Energy Efficiency in Buildings. Pacific Grove, CA, 2018

Skills & Certifications

Python, R, Tableau, MAXQDA, Matlab, ArcGIS, AutoCAD, eQuest, NREL SAM, RETScreen, certified energy manager and engineer in training