

Bo Liu

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EDUCATION

Ph.D. in Urban Planning, University of California, Los Angeles (UCLA) Expected: December 2020
Dissertation: Planning for sustainable transportation through the integration of technology, public policy, and behavioral change: a data-driven approach
Committee: JR DeShazo (Co-Chair), Deepak Rajagopal (Co-Chair), Brian Taylor, Yifang Zhu

Master of Public Administration, Syracuse University 2013

M.S. in Environmental Science, SUNY College of Environmental Science and Forestry 2013

B.S. in Environmental Science, Beijing Normal University 2011

SELECTED PUBLICATIONS

Peer-reviewed journal articles

Deepak Rajagopal, **Bo Liu** (2020). Waste to energy: The United States can generate up to 3.2 EJ of energy annually from waste. *Nature Energy* 5: 18-19.

Bo Liu, Deepak Rajagopal (2019). Life cycle energy and climate benefits of energy recovery from wastes and biomass residues in the United States. *Nature Energy* 4: 700–708.

Sha Yu, Jill Horing, Qiang Liu, Robert Dahowski, Casie Davidson, James Edmonds, **Bo Liu**, Haewon Mcjeon, Jeff McLeod, Pralit Patel, Leon Clarke (2019). CCUS in China's mitigation strategy: insights from integrated assessment modeling. *International Journal of Greenhouse Gas Control* 84: 204-218.

Timothy A. Volk, Bill Berguson, ..., **Bo Liu**, Bernie McMahon, Randy Rousseau, Shun Shi, Richard Shuren, Lawrence B. Smart, Glen Stanosz, Brain Stanton, Bryce Stokes, Jeff Wright (2018). Poplar and shrub willow energy crops in the United States: field trial results from the multiyear regional feedstock partnership and yield potential maps based on the PRISM-ELM model. *GCB Bioenergy* 10(10): 735-751.

Shweta Srinivasan, Nazar Kholod, Vaibhav Chaturvedi, Probal Pratap Ghosh, Ritu Mathur, Leon Clarke, Meredydd Evans, Mohamad Hejazi, Amit Kanudia, Poonam Nagar Koti, **Bo Liu**, Kirit S. Parikh, Mohd. Sahil Ali, Kabir Sharma (2017). Water and electricity in India: a multi-model study of future challenges and linkages to climate mitigation. *Applied Energy* 210: 673-684.

Bo Liu, Meredydd Evans, Sha Yu, Volha Roshchanka, Srihari Dukkupati, Ashok Sreenivas (2017). Effective energy data management for low-carbon growth planning: an analytical framework for assessment. *Energy Policy* 107: 32-42.

Qianqian Zhou, Andrew Blohm, **Bo Liu** (2016). Planning Framework for mesolevel optimization of urban runoff control schemes. *Journal of Water Resources Planning and Management* 143(4): 04016083.

Lining Wang, Pralit L. Patel, Sha Yu, **Bo Liu**, Jeff McLeod, Leon E. Clarke, Wenying Chen (2016). Win-Win strategies to promote air pollutant control policies and non-fossil energy target regulation in China. *Applied Energy* 163: 244-253.

Technical reports

Troy Kawahara, **Bo Liu**, Anurag Pande, Calvin Thigpen, Carole Turley Voulgaris (2019). Moving from walkability? Evaluation traditional and emerging data sources for evaluating changes in campus-generated greenhouse gas emissions. Mineta Transportation Institute, San José State University, San José, CA.

Bo Liu (2019). Section 3.2 Transit electrification grid impact, in: County of Los Angeles transportation electrification blueprint. County of Los Angeles, Los Angeles, CA.

Bo Liu, Meredydd Evans, Leon Clarke, Stephanie Waldhoff, Sha Yu (2015). Decarbonizing India's power sector: preliminary synthesis of project results from the U.S.-India model intercomparison. PNNL-24736, Pacific Northwest National Laboratory, Richland, WA.

Sha Yu, Volha Roshchanka, Meredydd Evans, **Bo Liu** (2014). International best practices on energy data management: insights for an Indian roadmap. PNNL-23623, Pacific Northwest National Laboratory, Richland, WA.

SELECTED GRANTS & AWARDS

The Technological and Financial Feasibility of a System-wide Transition to Zero-Emission Vehicles at the University of California (UC Carbon Neutrality Initiative, \$35,000), 2020, University of California Office of the President & UCLA Transportation. PI: JR DeShazo.

MIT Professional Education Short Programs Scholarship (\$1,800), 2020, MIT

Institute of Transportation Studies Dissertation Year Fellowship (\$20,000), 2019, UCLA

Graduate Summer Research Mentorship (\$6,000), 2018, UCLA

Meyer and Renee Luskin Graduate Fellowship, 2016-2019, UCLA

David and Marianna Fisher Fellowship (\$10,000), 2016-2018, UCLA

Graduate Research Assistantship, 2012 & 2013, SUNY Research Foundation

City Outstanding Student Award, 2011, Beijing Municipal Education Commission

University Outstanding Student Award, 2010, Beijing Normal University

RESEARCH & PROFESSIONAL EXPERIENCE

Luskin Center for Innovation, UCLA Los Angeles, CA
Senior Researcher (July 2020 - current)
Researcher (September 2018 - June 2020)

Institute of the Environment and Sustainability, UCLA Los Angeles, CA
Graduate Student Researcher (September 2016 – September 2018)

Joint Global Change Research Institute, Pacific Northwest National Laboratory College Park, MD
Research Associate (July 2014 - July 2016)

New York State Assembly Albany, NY
Graduate Scholar (January 2014 - June 2014)

TEACHING EXPERIENCE

Sole Instructor, UCLA
Cluster M1CW Sem 1/3 Sustainability as a Lifestyle (Spring 2019, Spring 2020)
PA 187A/B/C Experiential Learning Capstone (Fall 2020, Winter 2021, Spring 2021)

Teaching Assistant/Associate/Fellow, UCLA
ENV 157 Energy, Environment, and Development (Fall 2016)
ENV 159 Life Cycle Analysis (Spring 2017, Fall 2017)
Cluster/ENV M1A Food: A Lens for Environment and Sustainability (Fall 2018, Fall 2019)
Cluster/ENV M1B Food: A Lens for Environment and Sustainability (Winter 2019, Winter 2020)

Graduate Teaching Assistant, Syracuse University
PAI 600 MPA Public Affairs Colloquium (Summer 2013)

SKILLS

Languages: English, Mandarin Chinese

Software/programming languages: R, Python, SAS, ArcGIS, GRASS GIS, LaTeX

COMMUNITY SERVICE

Journal Referee (#): Energy Policy (6), Journal of Industrial Ecology (1)

Conference Reviewer (#): ISSST 2018 (3), TRBAM 2021 (1)