

Mallika Sharma

Department of Economics
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Education

Ph.D. Economics, University of Calgary, 2019–2026 (expected)

Fields: Environmental economics, Energy and Electricity, Transportation Economics, Economics of Electric Vehicles

Madras School of Economics, Central University of Tamil Nadu, India, 2015
Symbiosis School of Economics, Symbiosis International University, India, 2013

Research in Progress

Network effects between electric vehicles and charging infrastructure. (Estimate the extensive and intensive margin of charging away and driving as charging infrastructure develops). (*Job market paper*)

Are the Electric Vehicle charging equipment incentives worth it: An analysis of the effectiveness of home and commercial EV charger rebates. (evaluates the effectiveness of charging infrastructure rebate programs in increasing EV adoption)

How do people drive and charge their electric vehicles. (with Ali Niazi and Dr. Blake Shaffer) (A statistical analysis of EV users' charging and driving behaviours)

The value of timely and detailed electricity data for energy and economic policy research. (with Dr. Megan Bailey and Dr. Blake Shaffer) (engages discussion on making high-dimensional electricity data available for research)

Awards

Anton and Dalgarno Memorial Graduate Scholarship 2020 (\$10,000)
Best TA award for Mathematical Economics II 2021 (\$500)

Academic Experience

Instructor

ECON 395: Introduction to Econometrics (*Summer 2025*)
ECON 311: Computer Applications in Economics (*Spring 2023*)

Teaching Assistant (with teaching experience, 2019-present)

Principles of Microeconomics, Introduction to Econometrics, Introduction to Mathematical Economics I, Introduction to Mathematical Economics II, The Economics of Health, Regulatory Economics, Computer Applications in Economics

Research Assistant (2020-present)

Assisted Dr. Blake Shaffer (supervisor), Dr. Megan Bailey, Dr. David Brown (University of Alberta), Dr. Erica Myers, Dr. Frank Wolak (Stanford):

In multiple field experiments (papers below) on demand side management and direct control load, with experience in conducting power analyses and working with some of the largest utilities in Canada.

Show Me the Money! Incentives and Nudges to Shift Electric Vehicle Charge Timing (*AEJ: Economic Policy*)

Take the Load Off: Time and Technology as Determinants of Electricity Demand Response. (*NBER Working Paper*)

Electric Vehicles and the Energy Transition: Unintended Consequences of a Common Retail Rate Design (*AER: Insights*)

Pre-Doctoral Professional Experience

CDP Worldwide (formerly Carbon Disclosure Project), India, 2016-2019

Technical Officer, Scoring and Data team

Responsible for scoring companies on environmental stewardship; Design and building in-house Scope 3 dataset.

Ford Motor Private Limited, India, 2015-2016

Market Research analyst, Global Data Insight and Analytics

Responsible to analyze customer surveys on mTAB for European Market of Ford cars and other competitors.

Conferences

June 2025: (Presenter) Canadian Resource and Environmental Economics Association (CREEA), Montreal

June 2024: (Presenter) Canadian Resource and Environmental Economics Association (CREEA), Toronto

2024: Presenter, University of Calgary, Electricity Lunch Series.

Oct 2024: (Volunteer Organizer) GridFWD 2024

2022-2025: Volunteering in organizing the annual Electricity Camp in the Rockies, hosted by University of Calgary

Policy work and Outreach

The Value of Timely and Detailed Electricity Data for Energy and Economic Policy Research" (with Blake Shaffer and Megan Bailey), March 2021. Report and presentation commissioned by Natural Resources Canada.

India Inc. readies for ParisAgreement & beyond - CDP India Climate Change Report 2016

India Inc. aligns with NDC and Paris Agreement to seize opportunities - CDP India Climate Change Report 2017

Services and other Professional activities

VP Communications, Economics Graduate Association (EGA) – Oct 2020 - July 2024

UC Berkeley Summer School in Environmental and Energy Economics, August 2021, through selection process

Invited participant/contributor at Research Roundtable conversation on Climate, Energy and Sustainability 2024

PhD-Student researcher at Net Zero Electricity Research Initiative

Other information

Language: English (fluent), Hindi (mother tongue)

Computer Skills: R, Python, STATA, L^AT_EX, MS Office, Python (basic)

Citizenship: Canada

References

Dr. Blake Shaffer
Associate Professor
University of Calgary
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