

# Mallika Sharma

Ph.D Economics (2026 Expected) (University of Calgary) | Ex - CDP (formerly Carbon Disclosure Project) | Ex - Ford Motor Pvt Ltd

Transportation Economics | Energy and Electricity Markets | Electric Vehicle policy | Economic Modelling

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Status: Canadian Citizen

## PROFILE

A Ph.D. candidate in Economics specializing in energy and environmental economics, with expertise in electricity markets, electric vehicles, and infrastructure policy. Bridging academic research and over 3 years of international industry experience collaborating across Canada, UK and India, bringing a new perspective into applied policy and data-driven analysis. Skilled in econometric modelling, large-scale data analysis, and translating research into actionable insights for academia and industry. Background includes load control and electricity demand management field experiments, ESG governance, scenario analysis, policy communication and stakeholder engagement. Recognized for effective teaching and policy-relevant contributions, I am passionate about the intersection of transportation and decarbonization and committed to advancing policy analysis through interdisciplinary collaboration and evidence-based design.

## SKILLS & TOOLS

Skills: Economic modelling techniques, Randomized Controlled Trials, including running power analyses.

Tools: R Programming, Python, SQL, STATA, LATEX, MS Office (incl Excel with VBA)

## RESEARCH EXPERIENCE

### University of Calgary

#### Sessional Instructor

Spring 2023, Summer 2025

Successfully designed and delivered lectures, assessments, tutorials and provided mentorship for students in applied econometrics and computational methods for the following courses.

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

#### Research and Teaching

Aug 2019 – Present

#### *Academic papers 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)

#### Research Assistant:

- Assisted Blake Shaffer (supervisor), Megan Bailey, David Brown (University of Alberta), Erica Myers (committee), and Frank Wolak (Stanford).
- Projects (below) include multiple **randomized controlled trials** in collaboration with some of the largest utilities in Canada on **demand-side management and direct load control strategies**. Responsibilities include managing large, high-frequency datasets, conducting advanced econometric analysis, power analyses and developing stakeholder-facing communication materials.
  - ➔ Show Me the Money! Incentives and Nudges to Shift EV 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](#)).

#### Teaching Assistant:

- Teaching experience of major economics fundamental courses including Principles of Microeconomics, Introduction to Econometrics, Mathematical Economics I & II, Economics of Health, Regulatory Economics, Computer Applications in Economics.
- **Key achievement:** Received Best Teaching Assistant Award (2021).

## PROFESSIONAL EXPERIENCE

### CDP (formerly Carbon Disclosure Project)

Technical Officer, India

June 2016 - Mar 2019

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Played a pivotal role in strengthening corporate climate accountability across corporations in India. Was responsible for collaborating with third-party scorers for scoring companies on environmental stewardship across the U.S. and UK, conducting reviews, and developing scoring methodology of the Forest program; help in building an in-house Scope 3 emissions dataset, and co-authoring flagship CDP India Climate Change Reports (2016, 2017). Supported corporate disclosure, policy frameworks, and global sustainability standards of Indian multinational organizations with the Paris Agreement and India's NDC commitments.

### Ford Motor Private Limited

Market Research Analyst, India

July 2015 - May 2016

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Contributed to market intelligence for the European automotive sector, analyzing large-scale customer survey data. Insights helped inform product positioning, competitive benchmarking, and consumer strategy for Ford and its competitors. Assisted in translating complex datasets into actionable strategies.

## EDUCATION

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

Fields: Environmental economics, Energy and Electricity, Electric Vehicles

- **VP Communications, Economics Graduate Association (Oct 2020 - July 2024):** Served as liaison between students and faculty, managed departmental communications and website, and founded the Buddy Program to support new graduate students, as a part of this student body.
- **PhD Student Researcher, Net Zero Electricity Research Initiative:** Contributing to multidisciplinary projects on Canada's electricity sector, analyzing transformational changes in energy systems.
- **The Faculty of Arts Research Roundtable on Climate, Energy & Sustainability (2024):** Participated in an interdisciplinary conversation on sustainability that emphasized collaboration across fields and the importance of historical and Indigenous perspectives. The roundtable highlighted how artistic expression and open communication can deepen engagement with climate and energy research challenges.

### Master of Economics (specializing in Environmental Economics)

Madras School of Economics, Central University of Tamil Nadu, India | September 2015

### Bachelor of Science in Economics

Symbiosis School of Economics, Symbiosis International University, India | April 2013

## KEY ACHIEVEMENTS

- Selected for UC Berkeley Summer School in Environmental & Energy Economics (2021).
- Received the Anton and Delgarno Memorial Graduate Scholarship, 2020 (\$10,000).
- Helped author flagship CDP India Climate Change Reports (2016, 2017).

## Conferences & Outreach

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Actively contributed to the field and discussion of academic and policy in energy and environmental economics through conferences, presentations, volunteer roles, and commissioned policy work.

- Presenter, Canadian Resource and Environmental Economics Association (CREEA), Montreal, June 2025.
- Presenter, Canadian Resource and Environmental Economics Association (CREEA), Toronto, June 2024.
- Presenter, University of Calgary, Electricity Lunch Series, 2024.
- Organizing service/Volunteer, GridFWD 2024.
- Organizing service/Volunteer for the annual Electricity Camp in the Rockies, hosted by University of Calgary (2022-2025)
- Policy reports:
  - ➔ The Value of Timely and Detailed Electricity Data for Energy and Economic Policy Research, with Dr. Blake Shaffer and Dr. Megan Bailey (Natural Resources Canada, 2021).
  - ➔ CDP India Climate Change Reports (2016, 2017).

## REFERENCES

- **Dr. Blake Shaffer** (*supervisor*), Associate Professor, University of Calgary | Email: [blake.shaffer@ucalgary.ca](mailto:blake.shaffer@ucalgary.ca)
- **Dr. Lucija Muehlenbachs** (*committee member*), Associate Professor, University of Calgary | Email: [lmuehlen@ucalgary.ca](mailto:lmuehlen@ucalgary.ca)
- **Dr. Erica Myers** (*committee member*), Associate Professor, University of Calgary | Email: [erica.myers@ucalgary.ca](mailto:erica.myers@ucalgary.ca)
- **Dr. Lucia Vojtassak**, Associate Professor (Teaching), University of Calgary | Email: [lucia.vojtassak@ucalgary.ca](mailto:lucia.vojtassak@ucalgary.ca)