

BROWN UNIVERSITY

Placement Director: Toru Kitagawa	toru.kitagawa@brown.edu	401-863-3688
Graduate Administrator: Angelica Spertini	angelica.spertini@brown.edu	401-863-2465

Office Contact Information

Department of Economics, Box B
Brown University
Providence, Rhode Island 02912
phone: +1 (202) 9078734

References

Professor **Andrew Foster**
Department of Economics, Box B
Brown University
Providence, Rhode Island 02912
afoster@brown.edu

Professor **Neil Thakral**
Department of Economics, Box B
Brown University
Providence, Rhode Island 02912
neil_thakral@brown.edu

Professor **Matthew Turner**
Department of Economics, Box B
Brown University
Providence, Rhode Island 02912
matthew_turner@brown.edu

JOB MARKET PAPER

Optimizing Incentives for Rooftop Solar: Accounting for Regional Differences in Marginal Emissions

Although federal incentives for residential rooftop solar do not discriminate between US states, there is substantial variation in the marginal emission reductions associated with solar across states. This variation indicates potentially large efficiency gains from having flexible state-by-state incentives. In this paper I estimate the supply and demand elasticities for new rooftop solar installations, using state-level incentives as an instrument. I find a demand elasticity of 11% and supply elasticity consistent with the perfectly elastic case. I then use these parameters to show that the state-by-state subsidy scheme that minimizes yearly emissions is 61% more efficient than the uniform incentive. These results can be useful as the Inflation Reduction Act of 2021 includes unprecedented funding allocation for climate policy, including incentives for residential rooftop solar generators.

EDUCATION

Brown University

Ph.D. Candidate in Economics
Expected Completion Date: May 2024

Providence, RI, USA

2018 –present

Fundacao Getulio Vargas

M.A. Economics

Sao Paulo, Brazil

2015 –2015

University of Sao Paulo

B.A. Economics

Sao Paulo, Brazil

2012 –2013

RESEARCH PAPERS

Does Free Childcare Improve Mothers' Careers? Evidence from São Paulo

With Marcela Mello and Rafael Latham-Proenca

The Effect of Child Disability on Mothers' Labor Supply: Evidence from the Zika Virus Outbreak

With Marcela Mello and Rafael Latham-Proenca

TEACHING

- Graduate-level: Macroeconomics (Prof. Galor), Econometrics (Prof. Norets)
- MPA: Microeconomics (Prof. Steinberg), Statistics (Prof. Friedman), Econometrics (Prof. Thakral), Public Policy (Prof. Poterack)
- Undergraduate-level: Environmental Economics (Prof. Poterack), Public Economics (Prof. Poterack)
- Teaching excellence award in 2021 for MPA teaching

OTHER

- **Conferences:** NEUDC 2022, Monash Environmental Economics Workshop 2023 (future event)