Itai **Trilnick**

ECONOMICS · DATA · INSIGHTS

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Skills

Data Analysis	Causal inference, experiment design, econometric methods, survey design, GIS
Coding tools	R, Stata, Python, Matlab, Git, Latex, SQL
Languages	English, Spanish, Hebrew

Experience

University of California, Berkeley   *Berkeley, California*

GRADUATE STUDENT RESEARCHER AND INSTRUCTOR   *2013 - 2019*

- Organized, merged, cleaned, calibrated, and analyzed geographic data on past weather, future climate predictions, and satellite based location of specific crops in California. These data served to show an imminent climatic threat to California pistachios, a billion dollar crop.
- Detected a negative effect of heat on pistachio yields, an ongoing challenge in the agronomic literature, using new statistical approaches including random forests.
- Authored "bunchr", an R package for bunching analysis, a statistical method for evaluating abnormalities in cross-sectional data caused by changing incentives. Set up a Shiny based online interactive simulator for teaching purposes (see https://trilnick.shinyapps.io/bunchapp/).
- Analyzed the effects of high temperatures on rooftop solar electricity generation using high frequency data from the California Solar Initiative and the National Renewable Energy Laboratory (15 minute intervals for >500 systems). Using penalized regression for model selection, I found that the efficiency losses from heat on summer days could be substantial (up to 5%).
- Used confidential administrative data at the Israeli Social Security (panel with hundreds of thousands of beneficiaries) to assess the effects of a policy changes.
- Designed and administered a survey for the California Department of Water Resources. The survey mapped current users of CIMIS, a network of rural weather stations meant to help farmers. The survey reveals the link between high quality data availability and the adoption of precise irrigation systems such as drip.
- Taught classes in macroeconomics and environmental economics. Presented complex concepts briefly and clearly to students, adjusting to varying learning styles and needs.

TheMarker   *Tel Aviv, Israel*

REPORTER - ENERGY AND ENVIRONMENT   *2011 - 2013*

- Interacted with various sources, including top policy makers, business leaders, and scientists. Wrote news items that made in-depth policy issues approachable to the general readership.
- Some articles are available in English, see https://www.haaretz.com/misc/writers/WRITER-1.4969127

Education

University of California, California   *Berkeley, USA*

PH.D AGRICULTURAL & RESOURCE ECONOMICS   *2013 - 2019*

- Fields: Agriculture, Environment, Public economics
- Advisors: David Zilberman & Michael Anderson

Ben-Gurion University of the Negev   *Sde Boker & Ketura, Israel*

M.SC ENVIRONMENTAL STUDIES, *cum Laude*   *2009 - 2011*

- Joint program with the Arava Institute for Environmental Studies
- Advisor: Alon Tal
- Thesis on market based instruments in waste management. The research involved field interviews, a survey, and statistical analysis of municipal solid waste data.

Tel Aviv University   *Tel Aviv, Israel*

B.SC IN ECONOMICS AND BIOLOGY, *Magna cum Laude*   *2005 - 2009*