

Itai Trilnick

ECONOMICS · DATA SCIENCE · 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

Google

Sunnyvale, California

DATA SCIENTIST

2019 - Present

- Leveraged insights from ML models, statistical analysis, and economics to improve indexing efficiency for Search and other products.
- Coordinated effort to improve indexing cost efficiency, saving up to 10% of computing costs.
- Created dashboards and notebooks with reproducible analysis, empowering colleagues to build on my findings and tweak them for their specific needs.

University of California, Berkeley

Berkeley, California

GRADUATE STUDENT RESEARCHER AND INSTRUCTOR

2013 - 2019

- Organized, merged, cleaned, calibrated, and analyzed spatial climate and satellite data. Detected a negative effect of winter heat on pistachio yields, an ongoing challenge in the agronomic literature, using new statistical approaches and ML.
- Authored “bunchr”, an R package for bunching analysis. Set up a Shiny based online interactive simulator for teaching purposes (see <https://trilnick.shinyapps.io/bunchapp/>).
- Analyzed rooftop solar performance under heat in California using big data and ML models. 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 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 (leading Israeli business newspaper)

Tel Aviv, Israel

REPORTER - ENERGY AND ENVIRONMENT

2011 - 2013

- Interacted with various sources, including top policy makers, business leaders, and scientists to produce engaging stories (translated: <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
- Four publications, one in top field journal

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.
- Research on market based instruments in waste management. Two publications resulting

Tel Aviv University

Tel Aviv, Israel

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

2005 - 2009