

Nadav Tadelis

About Me

I'm a Senior Economist at Microsoft working on API LLM marketplaces, incentives, cloud products, among many other areas. During my Economics PhD I focused on industrial organization and econometrics, with specific interests in learning-by-doing, productivity dynamics, matching markets, dynamic auctions, causal machine learning, and heterogeneous treatment effects in high dimensional settings.

Education

PhD in Economics University of California Berkeley	2020 - 2025
BA in Statistics, Honors BS in Environmental and Economics Policy University of California Berkeley	2014 - 2018
	2014 - 2018

Skills/Qualifications

Programming Languages: Python, SQL, Julia, R
Languages: English (native), Hebrew (proficient), Spanish (proficient)

Research Manuscripts

- “*The Emerging Market for Intelligence: Pricing, Supply, and Demand for LLM*”, working paper, 2025 (Joint with Mert Demirer, Andrey Fradkin, and Sida Peng)
- “*Experiential Learning in Knowledge Workers: Individual Mastery, Product Spillovers, and Collaborative Synergies*”, working paper, 2024
- “*Learning to Bid in Dynamic Auctions with Asymmetric Information*”, In Progress
- “*Adaptive Estimation for Nonparametric Treatments in Double Machine Learning*”, In Progress (Joint with Manu Navjeevan)
- “*Solutions for Congestion in Matching Markets*”, In Progress (Joint with Andrew Tai)

Experience

<i>Senior Economist</i> Senior Economist in the Office of the Chief Economist.	Microsoft December 2024 - Current
<i>Principal Economist/ML Researcher (Part Time Consultant)</i> (Seed-level Startup) Developed data science and economic tools for the core products, from ideation to production. Created and implemented flagship user facing metrics for tracking technician productivity and optimal task assignment. Collaborated closely with engineers, connected models to backend infra and client facing LLM's.	Plumber.ai January 2024 - January 2025
<i>PhD Research Economist Intern</i> Built internal pricing and productivity models. Created big data (7TB+) Snowflake (SQL) to Python pipelines. Worked closely with economists, data scientists, SWE's, and account managers to create customized ML and causal models.	Flexport February 2023 - October 2023
<i>Research Intern</i> Research conducted in the Automated Learning and Intelligence for Causation and Economics lab. Focused on developing adaptive extensions to the canonical double ML procedures which allow for nonlinear treatment effects with unknown functional forms. Goals included proving convergence and inference results, as well as adding the developed methods to the EconML codebase.	Microsoft Research (ALICE) May 2022 - August 2022
<i>Graduate Student Instructor (Teaching Assistant)</i> Teaching undergraduate economics courses (Game Theory, Intermediate Microeconomics, Industrial Organization, Econometrics).	UC Berkeley August 2021 - May 2024

*Full Time Research Assistant (Pre-Doc)***UC Berkeley** September 2018 - February 2021

Conducted research for professors Ben Handel and Jon Kolstad. Focused primarily on analyzing the effectiveness of changes to a health insurer's payment plans for physicians, working with All-Payer Claims Databases (APCD).

*Economic Consultant***Auctionomics** January 2019 - March 2019

Economic consultant and researcher for Auctionomics - details under NDA.

*Global Intern - Algorithms Lab / Data Mining***Hyundai (Seoul)** June 2017 - August 2017

Analyzed and refined a graph-theoretic approach to quality control of crowdsourced data. Combined different crowdsourcing techniques to create a platform that yields higher quality data while minimizing the number of tasks.

*Part Time Research Assistant***UC Berkeley** August 2016 - April 2017

Research assistant for Professor Jonathan Kolstad. Built a wrapper in R to streamline the creation of "Honest Trees" as described in "Recursive Partitioning for Heterogenous Causal Effects" (Athey & Imbens, 2015). Focused on health data and creating interpretable estimations of heterogeneous treatment effects in big data settings.

*Data and Policy Analyst***Acumen LLC** May - August 2016

Responsibilities included providing analytical support for research and consulting projects for government and private clients, in the area of health policy. Performing data management and statistical analysis; and researching and interpreting policy. Specific project involved research for the Center for Medicare & Medicaid Services (CMS).