

ELLIE TYGER

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EDUCATION

Stanford University

PhD in Economics

Minor in Computer Science

in progress

E.S. Shaw and B.F. Haley Fellowship for Economics

Fields: microeconomic theory, market design, computational economics

Co-Primary Advisers: Al Roth and Mohammad Akbarpour

Northwestern University

B.A. in Mathematical Methods in the Social Sciences & Economics

Minors in Computer Science & Statistics

2014 - 2018

Cum Laude: GPA 3.78/4.00, Dean's List

Thesis: "Interplay of Policy Instruments in Climate Economics"

Michael F. Dacey Award for Most Outstanding Mathematical Methods in the Social Sciences Senior Thesis

WORK EXPERIENCE

Stanford University

Teaching Assistant

September 2022 - June 2024

Palo Alto, CA

- **Fall 2022 & Fall 2023:** ECON 202 (Graduate Microeconomics I), TA to Ilya Segal and Ravi Jagadeesan
- **Winter 2023 & Winter 2024:** ECON 102A (Introduction to Statistical Methods (Postcalculus) for Social Scientists), TA to Scott McKeon
- **Spring 2023:** ECON 136 (Market Design), TA to Paul Milgrom
- **Spring 2024:** ECON 137 (Decision Modeling and Information), TA to Scott McKeon

Uber Technologies, Inc.

PhD Applied Scientist Intern

June 2023 - September 2023

San Francisco, CA

- Studied driver behavior and reactions to incentives as a part of the driver pricing team

Stanford University

Research Assistant to Al Roth

June 2021 - September 2022

Palo Alto, CA

- Explored topics relating to repugnant transactions, the market for ransomware, and cryptocurrency

Boston Consulting Group

Associate

July 2018 - April 2020

Chicago, IL

- **Public Sector:** Studied contract structures and terms to develop best practices for future negotiations. Applied game theoretical concepts and conducted comprehensive industry interviews to inform recommendations
- **Public Sector:** Analyzed supply-chain data and industry benchmarks to improve operations. Evaluated large quantities of client data to understand current state and recommend changes to inventory management strategy
- **Private Equity:** Conducted due diligence on five potential private equity deals from both buy- and sell-side perspectives
- **Consumer:** Performed market research to aid a large consumer brand in its category expansion efforts
- **Retail:** Created materials (e.g., starting terms) for supplier negotiations by analyzing past transaction and vendor data
- **Transportation:** Developed a pilot program to support employee transit in economically disconnected neighborhoods as part of joint effort among employers, transit companies, and Metropolitan Planning Council of Chicago

- **Analytics Support Cadre:** Assisted colleagues with data analysis and computational challenges. Led new hire training sessions on how to develop analytical models

Boston Consulting Group

Summer Associate

June 2017 - August 2017

Chicago, IL

- **Pharmaceuticals:** Conducted market research to propose an innovative go-to-market strategy for a new drug

Northwestern University

Teaching Assistant

March 2016 - March 2018

Evanston, IL

- **Winter 2018:** EECS 211 (Fundamentals of Computer Programming II)
- **Fall 2017:** EECS 214 (Data Structures & Data Management)
- **Spring 2016:** EECS 311 (Fundamentals of Computer Programming)

Federal Deposit Insurance Corporation, Division of Insurance and Research

Student Trainee, Economist

June 2016 - May 2017

Chicago, IL

- Performed statistical analysis on financial and economic data to assist analysts in writing reports and creating forecasts
- Conducted research and prepared briefings for both internal FDIC resources and external presentations to regional banking professionals
- Created automated systems and tools in Excel to efficiently extract and display the most current data and insights

WORKING PAPERS

Learning in non Strategy-proof Matching Mechanisms: studies when an equilibrium can be reached under weak informational assumptions. Proves that the Boston school choice mechanism converges to the student-optimal stable matching under weak conditions when agents make adjustments to their reports based on their allocation in the previous round. [*pdf coming soon: see website*]

Outcome Contingent Equilibrium (*coauthor Alexander Haberman*): defines a new equilibrium concept that accommodates varying levels of information disclosure to agents. Identifies an explanation for why agents are better able to strategize in some non-strategy proof mechanisms than they are in others [*pdf coming soon: see website*]

SKILLS & INTERESTS

Skills	Python, Spark, SQL, Excel, L ^A T _E X, MatLab, R
Languages	Proficient in Spanish, conversational in French
Interests	Classical piano & violin, jazz piano, knitting, reading, baseball, tennis