Andrew Tai

Contact

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Education	**Degree**	**Date**	**Field**
UC Berkeley	Ph.D.	2024 (expected)	Economics
UC Berkeley	B.A. *with Highest Honors*	2015	Economics and Applied Mathematics

References

Haluk Ergin (Chair)
hie@econ.berkeley.edu

Federico Echenique
fede@econ.berkeley.edu

Chris Shannon
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Placement Service

Janene Vernard
place@econ.berkeley.edu

Working Papers

Revealed Preferences of One-Sided Matching (Job Market Paper) [link]

Abstract: I study the testable implications of the core in an exchange economy with unit demand when agents' preferences are unobserved. To do so, I develop a model of aggregate matchings in which the core is testable; the identifying assumption is that agents' preferences are solely determined by observable characteristics. I give conditions that characterize when observed economies are compatible with the core. These conditions are meaningful, intuitive, and tractable; they provide a nonparametric test for the core in the style of revealed preferences. I also develop a parametric method to estimate preference parameters from multiple observations of exchange economies. An allocation being in the core implies necessary moment inequalities, which I leverage to obtain partial identification.

House-Swapping with Objective Indifferences (with Will Sandholtz) [link]

Abstract: We study the classic house-swapping problem of Shapley and Scarf (1974) in a setting where agents may have "objective" indifferences, i.e., indifferences that are shared by all agents. In other words, if any one agent is indifferent between two houses, then all agents are indifferent between those two houses. The most direct interpretation is the presence of multiple copies of the same object. Our setting is a special case of the house-swapping problem with general indifferences. We derive a simple, easily interpretable algorithm that produces the unique strict core allocation of the house-swapping market, if it exists. Our algorithm runs in square-polynomial time, a substantial improvement over the cubed-time methods for the more general problem.

Pre-PhD Publications

"International Transmission of Japanese Monetary Shocks under Low and Negative Interest Rates: A Global FAVAR Approach" (with Mark Spiegel). 2019. Pacific Economic Review. 23 (1): 51-66.

"Measuring the Effects of Dollar Appreciation on Asia: A FAVAR Approach" (with Zheng Liu and Mark Spiegel). 2017. Journal of International Money and Finance. 74: 353-370.

Presentations

2023 Washington University in St. Louis EGSC, UC Berkeley, UC Berkeley Simons Institute, UC Davis All-UC Theory Conference (scheduled)
2022 CLIMB Center Retreat (poster)

Research Positions	**Date**
Research Assistant, for David Card, UC Berkeley	Summer 2022
Research Assistant, for Stefano DellaVigna, UC Berkeley	2017-2018
Research Associate, Federal Reserve Bank of San Francisco	2015-2017

Teaching Experience

Graduate Student Instructor (GSI), Department of Economics, UC Berkeley

- Game Theory in the Social Sciences
  Fall ’19, Fall ‘20
- Labor Economics
  Spring ‘20
- Advanced Economic Theory
  Spring ‘21
- Microeconomic Theory (PhD first-year course)
  Fall ‘21, Spring ’22, Fall ’22, Fall ‘23

Outstanding Graduate Student Instructor Award (2022-2023)

Fellowships and Awards

2023 Doctoral Completion Fellowship, Outstanding Graduate Student Instructor Award

Service

2019-20 Graduate Economics Association

Other

Citizenship: USA