

# Will Sandholtz

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## Education

Ph.D. Economics, UC Berkeley  
2018-present (on leave during 2021-2022 academic year)  
M.A. Economics, UC Berkeley  
2018-2021  
B.A. Economics & Statistics (Highest Honors), UC Berkeley  
2014-2018

## Research Interests

Microeconomic theory, philosophy of economics, public finance

## Working Papers

“House-Swapping with Objective Indifferences” (with Andrew Tai) [[pdf](#)] [[arXiv](#)]

*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.

## Works in Progress

“Why Do Legislators Form Links? Network Analysis on the House” (with Kevin Dano and Andrew Tai)

“Preferences, Monadic Predicates, and Priority Structures”

## Teaching

As Teaching Assistant (GSI) at UC Berkeley: Introduction to Economics, ECON 2 (Fall 2023)

## Awards and Honors

National Science Foundation (NSF) Graduate Research Fellowship (2019)  
University Medal Finalist [[press](#)] (2018)  
Steve Goldman Memorial Prize/Economics Departmental Citation (2018)  
Phi Beta Kappa, inducted as junior (2017)