

# Christopher Zosh

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Economics Department  
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## Education

Ph.D. in Economics, Binghamton University, (Expected) S2025

- Behavioral Macro and Complexity course, Tinbergen Institute (with Cars Hommes), Su2021
- Complex Systems Summer School, Santa Fe Institute, Su2022
- Graduate Workshop in Computational Social Science, Santa Fe Institute (with John Miller and Scott Page), Su2023
- Advanced Graduate Workshop in Computational Social Science, Santa Fe Institute (with John Miller and Scott Page), Su2024

B.A. in Mathematics and Economics (Dual Major), University at Buffalo, S2018

## Research Fields

Decision Theory, Game Theory, Behavioral Economics, Learning & Stochastic Optimization, Agent-Based Simulation

## Working Papers

- **Evolving Sustainable Institutions in Agent-Based Simulations with Learning** with Andreas Pape, Todd Guilfoos, and Peter DiCola
- **On the Preservation of Input/Output Directed Graph Informativeness under Crossover** with Andreas Pape, J. David Schaffer, and Hiroki Sayama

## Works in Progress

- **The Problem with Empty-Headedness: Generalizing K-Level Beliefs to Simulate Priors in Models of Learning and Boundedly Rational Response**

- **A Guide and General Method for Estimating Parameters and their Confidence Intervals in Agent-Based Simulations with Stochasticity** with Nancy Dhameja, Yixin Ren, and Andreas Pape
- **Monitoring in Evolving Sustainable Institutions with Learning** with Andreas Pape, Todd Guilfoos, and Peter DiCola

## Teaching Experience

- As instructor (Ithaca College):
  - Intro Microeconomics (U), F2022
- As teaching assistant (Binghamton University):
  - Intro Microeconomics (U), F2019, S2020
  - Macroeconomic Theory (PhD), F2020, F2021
  - Agent-Based Policy Modelling (in Python) (M/PhD), S2023
- As department-hired tutor (Binghamton University):
  - Microeconomic Theory (Game Theory) Comprehensive Exam Review, Su2021
  - Macroeconomic Theory Comprehensive Exam Review, Su2022

## Presentations

- Complex Systems Summer School, Santa Fe Institute, Su2022
- Graduate Workshop in Computational Social Science, Santa Fe Institute (with John Miller and Scott Page), Su2023
- Commons, Commoning, and Social Change Workshop (School for Environment and Sustainability - University of Michigan), F2023
- Eastern Economic Association 2024 NYC Computational Economics & Complexity Workshop, S2024

## Other

- President of the Graduate Student Organization for the Economics Department, F2020-Su2021
- Student coordinator for the Fourth Northeast Regional Conference on Complex Systems, Binghamton University, S2021