Christopher Zosh

Economics Department

Binghamton University

Citizenship: USA

Phone: (+1) 607-349-1643

E-mail: czosh1@binghamton.edu

Website: https://chriszosh1.github.io/

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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 (In Review: JEBO)
- **On the Preservation of Input/Output Directed Graph Informativeness under Crossover** with Andreas Pape, J. David Schaffer, and Hiroki Sayama (In Review: Evolutionary Computation
- **A Guide and General Method for Estimating Parameters and their Confidence Intervals in Agent-Based Simulations with Stochasticity** with Nency Dhameja, Yixin Ren, and Andreas Pape
- **The Problem with Empty-Headedness: Generalizing K-Level Beliefs to Simulate Priors in Models of Learning and Boundedly Rational Response**

- **Imperfect 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