Wade Hann-Caruthers

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Employment

Faculty of Data and Decision Sciences, Technion.
Postdoctoral Fellow in Game Theory. August 2023–September 2025.

Electrical and Computer Engineering, University of Michigan.
Postdoctoral Researcher on Multi-agent Learning MURI. September 2025–present.

Education

Ph.D. Social Science, Caltech, 2023.

M.Sc. Social Science, Caltech, 2019.

B.Sc. Mathematics & Computer Science (minor), Caltech, 2016.

Awards

PIMCO Graduate Fellow in Data Science, 2019-2020.

Working papers

"The Positive Effect of Garbling on Social Learning", with Itai Arieli, Yakov Babichenko, *R & R* at Journal of Economic Theory

"Anonymous Network Formation", with Itai Arieli, Leonie Baumann

Publications

1. "Network and Timing Effects in Social Learning", with Minghao Pan, Omer Tamuz, *Economics and Computation (EC25)*, 2025

2. "Anonymous Network Formation", with Itai Arieli, Leonie Baumann, *Economics and Computation (EC25)*, 2025

3. "Information Cascades in Strategic Environments", with Alejandro Robinson-Cortes, *Stony Brook International Conference on Game Theory*, 2024

4. "Luce Contracts", with Sumit Goel, *Midwest Economic Theory Conference, Economics and Computation (EC24)*, R & R *at Games and Economic Behavior*, 2024

5. "Project selection with partially verifiable information", with Sumit Goel, *Mathematical Social Sciences*, 2024

6. "Optimality of the coordinate-wise median for strategyproof facility location in two dimensions", with Sumit Goel, *Social Choice and Welfare*, 2022

7. "Equitable voting rules", with Laurent Bartholdi, Maya Josyula, Omer Tamuz, Leeat Yariv, *Econometrica*, 2021

8. "Additive conjugacy and the Bohr compactification of orthogonal representations", with Zachary Chase, Omer Tamuz, *Mathematische Annalen*, 2021

9. "A deterministic protocol for sequential asymptotic learning", with Yu Cheng Y, Omer Tamuz, *IEEE International Symposium on Information Theory (ISIT)*, 2018

10. "The speed of sequential asymptotic learning", with Vadim Martynov, Omer Tamuz, *Journal of Economic Theory*, 2018

Presentations

Midwest Economic Theory Conference at Penn State, 2025

Stony Brook International Conference on Game Theory, 2025

Conference on Economics and Computation (EC), 2025

Conference on Network Science in Economics, 2025

Stony Brook International Conference on Game Theory, 2024

Conference on Economics and Computation (EC), 2024

Midwest Economic Theory Conference at IUPUI, 2024

Workshop on Internet and Network Economics (WINE), 2022

Winter School in Economics (Delhi School of Economics), 2019

Summer School in Economics (Hokkaido University), 2019

Conference on Economics and Computation (EC), 2019

IEEE International Symposium on Information Theory (ISIT), 2018

Research Assistantships

RA for Omer Tamuz, 2016-2017.

– Assisted with economic theory and mathematics research projects, including proving properties of "anonymous network games" and actions of strongly amenable groups; co-authored "The speed of sequential asymptotic learning".

RA for Laura Doval, 2019-2020.

– Wrote software to implement an algorithm for computing the set of "Bayes Coordinated Equilibria" for normal form games; assisted in proving technical results for an economic theory paper.

Teaching

Introduction to Political Science (TA), Caltech, 2022

Math camp for incoming graduate students, 2019

A History of Budgetary Politics in the United States (TA), Caltech, 2019, 2022

Undergraduate Game Theory (TA), Caltech, 2018, 2022

Introduction to Economics (TA), Caltech, 2023

Data Analytics in Finance (TA), Caltech, 2023

Reviews

Conference on Economics and Computation (EC), Transactions on Economics and Computation (TEAC), Games and Economic Behavior (GEB), Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO 2024, 2025), American Economic Journal: Microeconomics (AEJ: Micro), Journal of Artifical Intelligence Research (JAIR), Mathematics of Operations Research (MOR), Journal of Mathematical Economics (JME)

Invited Talks

2023   Workshop on adaptive learning and opinion dynamics in social networks (Bar-Ilan), Bray Seminar (Caltech)

References

Prof. Omer Tamuz
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Department of Humanities and Social Sciences
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Prof. Federico Echenique
UC Berkeley
Department of Economics
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Prof. Itai Arieli
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