

Stephen Harmon Newman

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EDUCATION

Princeton University

Ph.D. Computer Science (expected)

August 2022 - May 2027

Yale University

M.S., Mathematics; B.S., Mathematics; B.S., Computer Science; awarded magna cum laude

August 2018 - May 2022

AWARDS

- Princeton Exemplar Mentor Award (2024)
- Phi Beta Kappa (2022)

PAPERS

- With Mark Braverman: “Sublinear-Overhead Secure Linear Algebra on a Dishonest Server.” *In submission.*
- “Decentralization Cheapens Corruptive Majority Attacks.” *AFT 2023.*
- With Y. Jennifer Sun and Elad Hazan: “Optimal Rates for Bandit Nonstochastic Control.” *NeurIPS 2023.*
- With Charles Johnson and Ilya Spitkovsky: “New Views of the Doubly Stochastic Single Eigenvalue Problem.” *Linear and Multilinear Algebra.*

FORTHCOMING PAPERS

- With Anna C. Gilbert, Eli P. Fenichel, and Roy R. Lederman: “Contact Network Spectra Predict Infectious Disease Spread.”

MISCELLANEOUS EXPERIENCE AND SERVICE

Graduate Teaching Fellow

Princeton – McGraw Center for Teaching and Learning

2024-2025

- Prepared and gave introductory pedagogy sessions for first-time graduate student TAs.

GradConnect Mentor Fellow

Princeton – Center for Career Development

2024

- Prepared and presented advisory material for undergraduate students interested in graduate school.
- Advised a group of the same students through the pre-application and application process.

Journal and Conference Refereeing/Reviewing

- Management Science (2025)
- ITCS (2024)
- Journal of Number Theory (2018-2019)