

# Matthew Kendall

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## EDUCATION

**Stanford University**, Stanford, CA  
Ph.D., Mathematics

starting Sep 2024

**Princeton University**, Princeton, NJ  
Bachelor of Arts, Mathematics

Sep 2019 – May 2024  
High honors, GPA: 3.95/4.0

**Budapest Semesters in Mathematics**, Budapest, Hungary

February 2021 – May 2021

**Stuyvesant High School**, New York, NY

September 2015 – June 2019

## PUBLICATIONS AND PREPRINTS

3. Crossing change maps in filtered grid homology. (2023) arXiv:2303.04227  
*Topology and its Applications*, accepted.
2. Bender–Knuth involutions on linear extensions of posets. (2023) arXiv:2302.12425  
with J. Chiang, A. Hoang, R. Lynch, S. Nguyen, B. Przybocki, and J. Xia.  
*Discrete Mathematics*, 347(9):114068.
1. Quantitative Helly-type theorems via sparse approximation. (2021) arXiv:2108.05745  
with V. Almendra–Hernández and G. Ambrus.  
*Discrete and Computational Geometry*, 70(4):1707–1714.

## AWARDS AND HONORS

Middleton Miller '29 Prize, <i>Department of Mathematics, Princeton University</i>	May 2024
Election to the Sigma Xi chapter, <i>Princeton University</i>	May 2024
Early election to the Phi Beta Kappa chapter, <i>Princeton University</i>	May 2024
Andrew H. Brown Prize, <i>Department of Mathematics, Princeton University</i>	May 2023
Richard B. Geller Memorial Scholarship, <i>Stuyvesant High School</i>	June 2019
Director's Award, <i>New York Youth Symphony Chamber Program</i>	May 2019
Berman–Rockow Award, <i>New York State Math League</i>	May 2019