

# Sam Freedman

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Last updated: April 2025

## Research Interests

Translation Surfaces; Teichmüller Dynamics; SageMath Programming

## Employment

September 2025- **Dickson Instructor**, *University of Chicago*, Chicago, IL.

## Education

May 2024 **Ph.D. in Mathematics**, *Brown University*, Providence, RI.  
Advisor: Jeremy Kahn

May 2020 **Sc.M. in Mathematics**, *Brown University*.

May 2018 **B.S. in Mathematics, High Honors**, *University of Michigan*, Ann Arbor, MI.  
Minor in Computer Science

## Publications

Nov 2022 **There are no Primitive Teichmüller Curves in Prym(2,2)**, with J. Boulanger, *C. R. Math.* 362 (2024).

Nov 2022 **Periodic Points of Prym Eigenforms**, *J. Modern Dynamics* 20 (2024).

Dec 2021 **Computing Periodic Points on Veech Surfaces**, with Z. Chowdhury et al., *Geom. Dedicata* 217 (2023).

Feb 2021 **Automorphisms of Tropical Hassett Spaces**, with J. Hlavinka & S. Kannan, *Port. Math.* 79 (2022).

## Preprints

Oct 2023 **Veech Fibrations**, with T. Lucas, Preprint (submitted).

## Selected Talks

Feb 2025 **Dynamics Seminar**, *Northwestern University*.

Sept 2024 **Dynamics Seminar**, *University of Bristol*.

May 2024 **Geometry/Topology Seminar**, *CUNY*.

April 2024 **Geometry/Topology Seminar**, *Indiana University*.

March 2024 **Group Actions Seminar**, *UCSD*.  
 Feb 2024 **Geometry/Topology Seminar**, *Yale*.  
 Sep 2023 **Algebraic Geometry Seminar**, *Boston College*.  
 Jun 2023 **Workshop in Geometric Topology**, *Contributed talk*, Colorado College, CO.

## Teaching

University of Chicago

Spring 2025 **Honors Calculus III (Math 163)**, *Instructor*.  
 Winter 2025 **Honors Calculus II (Math 162)**, *Instructor*.  
 Winter 2025 **Mathematical Methods in the Physical Sciences (Math 184)**, *Instructor*.  
 Fall 2024 **Honors Calculus I (Math 161)**, *Instructor*.

Brown University

Spring 2024 **Linear Algebra (Math 520)**, *Instructor/TA II*.  
 Fall 2023 **Intermediate Calculus (Math 200)**, *Instructor/TA II*.  
 Spring 2023 **Linear Algebra (Math 520)**, *Instructor/TA II*.  
 Fall 2022 **Intermediate Calculus (Math 200)**, *Instructor/TA II*.  
 Fall 2021 **AP Calculus (Math 190)**, *Instructor/TA II*.  
 Winter 2021, **Calculus II (Math 100)**, *TA*.  
 Fall 2019  
 Winter 2020 **Calculus I (Math 90)**, *TA*.

## Honors and Grants

Aug 2022 **Excellence in Teaching Award**, *Brown Univ. Math. Dept.*.  
 Mar 2022 **Junior Scientific Visibility Program Grant**, *Fond. Math. Jacques Hadamard*.

## Service & Mentoring

Fall 2024 Mentor, Morehouse/Spelman DRP  
 2023–24 Organizer, Brown Horizons Seminar  
 2019–24 Organizer & SAO Liaison, Brown Math Circle  
 2020–22 Directed Reading Program mentor (various topics), Brown Univ.  
 Summer 2020 BUMP mentor (Group 5), Brown Univ.

## Professional Activities

**Refereeing**, *Discrete and Continuous Dynamical Systems (DCDS)*, *IMRN*.