

Mark Schachner

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EDUCATION

Cornell University <i>Ph.D., Mathematics</i>	August 2021 — May 2027 (expected) <i>Ithaca, NY</i>
Cornell University <i>Master of Science, Computer Science</i>	August 2021 — May 2024 <i>Ithaca, NY</i>
The University of Chicago <i>Bachelor of Science with Honors, Mathematics</i>	September 2017 — June 2021 <i>Chicago, IL</i>

PUBLICATIONS AND PREPRINTS

Computational techniques for sheaf cohomology of locally profinite sets <i>Preprint, arXiv:2602.02976</i>	February 2026
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AWARDS AND FELLOWSHIPS

Graduate Student Teaching Award <i>\$750</i>	December 2025
Graduate Research Assistantships <i>\$18,547</i>	May — August 2023, May — August 2024
NSF Graduate Research Fellowship <i>\$138,000</i>	August 2021 — Present

EXPERIENCE

Adjunct Faculty, Cornell Prison Education Program <i>Cayuga Community College</i> - Instructor of record for MATH 112 Contemporary Mathematics - Developed and taught weekly lessons in mathematics to incarcerated students at Cayuga Correctional Facility	January 2026 — May 2026 <i>Auburn, NY</i>
Instructor, Ithaca High School Math Seminar <i>Ithaca High School</i> - Instructor for mathematics seminar - Developed curriculum for high school students grades 10-12 - Will propose and supervise independent student projects in spring 2026	September 2025 — June 2026 <i>Ithaca, NY</i>
Instructor, Cornell Prison Education Program <i>Cornell Mathematics Department</i> - Instructor of record for MATH 112 Contemporary Mathematics - Developed and taught weekly lessons in mathematics to incarcerated students	January 2025 — February 2025 <i>Ithaca, NY</i>
Teaching Assistant / Counselor <i>Bridge to Enter Advanced Mathematics</i> - Summer outreach program to help underserved students enter advanced study in mathematics - Responsibilities included supervising problem sessions and program activities, as well as working directly with students to develop critical thinking and creative problem-solving skills	July 2020 — August 2021 <i>Los Angeles, CA</i>

TEACHING

Instructional Teaching Assistant, MATH 1120 <i>Cornell Mathematics Department</i> Instructor of record for MATH 1120 Calculus II	January 2024 — May 2024 <i>Ithaca, NY</i>
Recitation Teaching Assistant, MATH 2940 <i>Cornell Mathematics Department</i> - Teaching assistant for MATH 2210 Linear Algebra - Gave weekly recitations to students using active learning techniques	September 2023 — December 2023 <i>Ithaca, NY</i>
Recitation Teaching Assistant, MATH 2210 <i>Cornell Mathematics Department</i> - Teaching assistant for MATH 2210 Linear Algebra - Gave weekly recitations to students using active learning techniques	January 2023 — June 2023 <i>Ithaca, NY</i>
Recitation Teaching Assistant, MATH 1910 <i>Cornell Mathematics Department</i> - Teaching assistant for MATH 1910 Calculus for Engineers - Gave weekly recitations to students using active learning techniques	September 2022 — December 2022 <i>Ithaca, NY</i>

SERVICE AND OUTREACH

Outreach Chair, Association for Women in Mathematics

September 2023 – May 2026

Cornell University Mathematics Department

Ithaca, NY

- Planned, organized, and led Julia Robinson Math Festival, a day-long math outreach workshop
- Organized and led Mathematical Puzzles workshop for Cornell's Expanding Your Horizons event

Organizer, Ph.D. Mentoring Program

May 2022 – May 2023

Cornell University Mathematics Department

Ithaca, NY

- Collaborated with Sara Stephens to coordinate department-wide program to match matriculating Ph.D. students with experienced student mentors
- Additionally served as mentor in program

Instructor, Little Circle

January 2023 – May 2023

Cornell University Mathematics Department

Ithaca, NY

- With Alexander Vidinas, developed and presented weekly lessons in departmental outreach program

RESEARCH & EXPOSITORY TALKS

Test-giving & Test-taking

Cornell Teaching Seminar

22 March 2023

Toward an Accessible Mathematics Classroom

Cornell Teaching Seminar

29 November 2023

Toward an Accessible Mathematics Classroom II. Learning Disability

Cornell Teaching Seminar

26 March 2025

Toward an Accessible Mathematics Classroom III. Tools and Rules

Cornell Teaching Seminar

1 October 2025

PROFESSIONAL DEVELOPMENT

Early Graduate Teaching Cohort

Center for Teaching Innovation, Cornell University

10-17 April 2026

Researcher, Computer Assisted Proofs in Applied Mathematics

Simons Laufer Mathematical Sciences Institute (SLMath)

7-18 July 2023

TECHNICAL SKILLS

Languages: C, JavaScript, Haskell, Python, LaTeX, HTML, CSS, MATLAB