

# Mark Schachner

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## EDUCATION

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

## AWARDS AND FELLOWSHIPS

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<b>NSF Graduate Research Fellowship</b> <i>\$138,000</i>	August 2021 — Present
<b>Graduate Research Assistantships</b> <i>\$18,547</i>	May — August 2023, May — August 2024

## EXPERIENCE

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<b>Teaching Assistant / Counselor</b> <i>Bridge to Enter Advanced Mathematics</i>	July 2020 — August 2021 <i>Los Angeles, CA</i>
<ul style="list-style-type: none"><li>• Summer outreach program to help underserved students enter advanced study in mathematics</li><li>• Responsibilities included supervising problem sessions and program activities, as well as working directly with students to develop critical thinking and creative problem-solving skills</li></ul>	

## TEACHING

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<b>Recitation Teaching Assistant, MATH 1910</b> <i>Cornell Mathematics Department</i>	September 2022 — December 2022 <i>Ithaca, NY</i>
<ul style="list-style-type: none"><li>• Teaching assistant for MATH 1910 Calculus for Engineers</li><li>• Gave weekly recitations to students using active learning techniques</li></ul>	
<b>Recitation Teaching Assistant, MATH 2210</b> <i>Cornell Mathematics Department</i>	January 2023 — June 2023 <i>Ithaca, NY</i>
<ul style="list-style-type: none"><li>• Teaching assistant for MATH 2210 Linear Algebra</li><li>• Gave weekly recitations to students using active learning techniques</li></ul>	
<b>Recitation Teaching Assistant, MATH 2940</b> <i>Cornell Mathematics Department</i>	September 2023 — December 2023 <i>Ithaca, NY</i>
<ul style="list-style-type: none"><li>• Teaching assistant for MATH 2210 Linear Algebra</li><li>• Gave weekly recitations to students using active learning techniques</li></ul>	
<b>Instructional Teaching Assistant, MATH 1120</b> <i>Cornell Mathematics Department</i>	January 2024 — Present <i>Ithaca, NY</i>
<ul style="list-style-type: none"><li>• Instructor of record for MATH 1120 Calculus II</li></ul>	

## RESEARCH & EXPOSITORY TALKS

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<b>Nonstandard Analysis: the Calculus You Won't Be Taught</b> <i>Cornell Olivetti Seminar</i>	29 March 2022
<b>One Diagonal Theorem to Rule Them All</b> <i>Cornell Homotopy Student Seminar</i>	9 May 2022
<b>A Birdwatcher's Guide to Combinatory Logic</b> <i>Cornell Olivetti Seminar</i>	13 September 2022
<b>The Effective Topos and You</b> <i>Cornell Homotopy Student Seminar</i>	2 December 2022
<b>Test-giving &amp; Test-taking</b> <i>Cornell Teaching Seminar</i>	22 March 2023
<b>Ordinals as Spaces / Ordinals as Categories</b> <i>Cornell Teaching Seminar</i>	13/20 September 2022
<b>Condensed Mathematics</b> <i>Cornell Teaching Seminar</i>	13 November 2023
<b>Toward an Accessible Mathematics Classroom</b> <i>Cornell Teaching Seminar</i>	29 November 2023

## SERVICE AND OUTREACH

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### **Organizer / Participant, 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

### **Professional Development Organizer, Association for Women in Mathematics**

September 2023 – Present

*Cornell University Mathematics Department*

*Ithaca, NY*

- With Prairie Wentworth-Nice and Raina Okonogi-Neth, organized seminars and panels in mathematics research

## TECHNICAL SKILLS

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**Languages:** C, JavaScript, Haskell, Python