

CHRISTOPHER Y. WANG

INFORMATION

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EDUCATION

Cornell University	Ithaca, NY
Ph.D. Mathematics, in progress	August 2022–present
Adviser: Alex Townsend	

Columbia University	New York, NY
B.A. Mathematics, summa cum laude with departmental honors	September 2018–May 2022
Adviser: Ioannis Karatzas	
Thesis: <i>Independence and conditional independence in discrete-time dynamic allocation problems</i>	

PUBLICATIONS AND PREPRINTS

- Operator learning for hyperbolic partial differential equations (with Alex Townsend), [arXiv:2312.17489](#).
- Independence and conditional independence in discrete-time dynamic allocation problems, [arXiv:2312.09350](#).
- Extensions of true skewness for unimodal distributions (with Yevgeniy Kovchegov, Alex Negrón, and Clarice Pertel), [arXiv:2209.11139](#).
- To appear: *Mathematical Methods of Statistics*, 2024.

GRANTS & AWARDS

- | | |
|--|-----------|
| · ICERM Travel Grant | 2024 |
| · NSF Graduate Research Fellowship | 2023–2028 |
| · RTG Graduate Fellowship, Cornell University | 2022–2023 |
| · John Dash van Buren, Jr. Prize in Mathematics, Columbia University | 2022 |

PRESENTATIONS

- | | |
|--|----------------|
| · <i>Operator learning for hyperbolic PDEs</i> (poster) | October 2024 |
| SIAM Conference on Mathematics of Data Science | Atlanta, GA |
| · <i>PDE learning (beyond neural nets)</i> | April 2024 |
| APMA Graduate Student Seminar, Brown University | Providence, RI |
| · <i>Operator learning for hyperbolic PDEs</i> (poster) | February 2024 |
| ICERM Workshop: Numerical Analysis of Multiphysics Problems | Providence, RI |
| · <i>Extensions of true skewness for unimodal distributions</i> (poster) | April 2022 |
| Pi Mu Epsilon Student Poster Session, Joint Mathematics Meeting | (virtual) |

TEACHING

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|---|-------------|
| Columbia University | |
| · Undergraduate Teaching Assistant, MATH 4061: Intro to Modern Analysis I | Spring 2022 |
| · Undergraduate Teaching Assistant, MATH 1011: Calculus I | Fall 2021 |

SERVICE

Co-chair for Cornell Association for Women in Mathematics

Fall 2022–Spring 2025

Planned several AWM outreach events, notably the 2023 and 2024 Cornell Julia Robinson Math Festivals for K–12 students, featuring various volunteer-led math activities and a speaker event aimed toward children and general audiences. Also helped plan the 2024–2025 AWM Zigzag undergraduate mentoring program.

Volunteer for Cornell Little Math Circle

Fall 2023

Led several sessions of math activities for kindergarten through 5th grade students.

Volunteer for Cornell Big Red Math Competition

Fall 2023

Proctored and graded exams for a high school math competition hosted by Cornell.

Graduate Assistant for the Cornell Math REU

Summer 2023

Advised four undergraduate students participating in the REU program at Cornell in the area of numerical PDEs. Activities included lectures on background theory and weekly meetings with project teams.

Graduate Mentoring Program Co-organizer

Spring 2023–Fall 2023

Matched matriculating students with peer mentors and organized mentor-mentee social events.

Directed Reading Program Mentor

Fall 2022–Spring 2023, Fall 2024

Mentored two undergraduate students at Cornell independently reading on differential topology and partial differential equations.

Columbia College Odyssey Mentor

Fall 2022–Spring 2023

Mentored two undergraduate students at Columbia on internship options, graduate school applications, and other career and academic topics.

MISCELLANEOUS

- Spoken languages: English (native), Mandarin Chinese (native), Spanish (elementary)
- Programming languages: MATLAB, Python, Javascript, Java, C, SQL