

CHRISTOPHER Y. WANG

INFORMATION

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EDUCATION

Cornell University Ph.D. Mathematics, in progress Advisor: Alex Townsend	Ithaca, NY August 2022–present
Columbia University B.A. Mathematics, summa cum laude with departmental honors Advisor: Ioannis Karatzas Thesis: <i>Independence and conditional independence in discrete-time dynamic allocation problems</i>	New York, NY September 2018–May 2022

PUBLICATIONS & 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). *Math. Methods Stat.* 33.3 (2024), 239–258. [\[arXiv:2209.11139\]](#)

GRANTS & AWARDS

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

TALKS & PRESENTATIONS

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| · <i>Exact distribution functions for randomized subspace iteration</i> (poster)
Householder Symposium XXII | June 2025
Ithaca, NY |
| · <i>Operator learning for hyperbolic PDEs</i> (poster)
SIAM Conference on Mathematics of Data Science | October 2024
Atlanta, GA |
| · <i>PDE learning (beyond neural nets)</i>
APMA Graduate Student Seminar, Brown University | April 2024
Providence, RI |
| · <i>Operator learning for hyperbolic PDEs</i> (poster)
ICERM Workshop: Numerical Analysis of Multiphysics Problems | February 2024
Providence, RI |
| · <i>Extensions of true skewness for unimodal distributions</i> (poster)
Pi Mu Epsilon Student Poster Session, Joint Mathematics Meeting | April 2022
(virtual) |

TEACHING

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

Outreach Co-chair for Cornell Association for Women in Mathematics Fall 2022–Spring 2025

Planned several AWM outreach events, notably the 2023, 2024, and 2025 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 organized the math workshop at Cornell’s 2025 Expanding Your Horizons event for middle school girls, as well as the 2024–2025 AWM ZigZag mentoring program.

Directed Reading Program Mentor Fall 2022–Spring 2023, Fall 2024

Mentored three undergraduate students at Cornell in directed reading in differential topology, partial differential equations, and probability theory.

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.

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