

# CHRISTOPHER Y. WANG

## INFORMATION

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## EDUCATION

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**Cornell University**  
M.S. Mathematics  
Ph.D. Mathematics, in progress  
Advisor: Alex Townsend

Ithaca, NY  
May 2025  
August 2022–present

**Columbia University**  
B.A. Mathematics, summa cum laude with departmental honors  
Advisor: Ioannis Karatzas  
Thesis: *Independence and conditional independence in discrete-time dynamic allocation problems*

New York, NY  
May 2022

## PUBLICATIONS & PREPRINTS

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- Operator learning for hyperbolic partial differential equations (with Alex Townsend). *J. Mach. Learn. Res.*, to appear. [\[arXiv:2312.17489\]](#)
- Extensions of true skewness for unimodal distributions (with Yevgeniy Kovchegov, Alex Negrón, and Clarice Pertel). *Math. Methods Stat.* 33.3 (2024), 239–258. [\[arXiv:2209.11139\]](#)
- Independence and conditional independence in discrete-time dynamic allocation problems, in revision. [\[arXiv:2312.09350\]](#)

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

## TEACHING

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### **Cornell University**

· Teaching Assistant, MATH 2310: Linear Algebra for Data Science Fall 2025

### **Columbia University**

· Undergraduate Teaching Assistant, MATH 4061: Intro to Modern Analysis I Spring 2022

· Undergraduate Teaching Assistant, MATH 1011: Calculus I Fall 2021

## SERVICE

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**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

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