

# CHRISTOPHER Y. WANG

## INFORMATION

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## EDUCATION

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**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: *Independence and conditional independence in discrete-time dynamic allocation problems*

## GRANTS & AWARDS

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- ICERM Travel Grant (\$6,350) 2024
- NSF Graduate Research Fellowship (\$147,000) 2023–2028
- RTG Graduate Fellowship, Cornell University (\$34,000) 2022–2023
- John Dash van Buren, Jr. Prize in Mathematics, Columbia University (\$4,000) 2022

## 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

## PUBLICATIONS

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- Operator learning for hyperbolic partial differential equations, submitted. Preprint [arXiv:2312.17489](https://arxiv.org/abs/2312.17489).
- Independence and conditional independence in discrete-time dynamic allocation problems, submitted. Preprint [arXiv:2312.09350](https://arxiv.org/abs/2312.09350).
- Extensions of true skewness for unimodal distributions (with Y. Kovchegov, A. Negrón, C. Pertel), submitted. Preprint [arXiv:2209.11139](https://arxiv.org/abs/2209.11139).

## TALKS

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- *Data-driven recovery of hyperbolic PDEs with rank detection* October 2023  
Olivetti Club (graduate student seminar), Cornell University, Ithaca, NY
- *Longest increasing subsequences of random permutations* March 2023  
Olivetti Club (graduate student seminar), Cornell University, Ithaca, NY
- *Multi-armed bandits* April 2022  
Undergraduate Math Research Symposium, Columbia University, New York, NY
- *Randomized SVD for low-rank approximation* April 2022  
Theoretical Computer Science Student Seminar, Columbia University, New York, NY
- *Extensions of true Skewness for unimodal distributions* April 2022  
Pi Mu Epsilon Student Poster Session, Joint Mathematics Meeting (virtual)

- *Extensions of true Skewness for unimodal distributions* December 2021  
Shenandoah Undergraduate Mathematics & Statistics Conference, James Madison University (virtual)
- *Extensions of true Skewness for unimodal distributions* August 2021  
Young Mathematicians Conference, Ohio State University (virtual)
- *Non-Markovian dynamic allocation in discrete time* May 2021  
Topics in Stochastic Analysis, Columbia University (virtual)
- *Optimal stopping in discrete time* March 2021  
Topics in Stochastic Analysis, Columbia University (virtual)

## SERVICE

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**Outreach Co-chair for the Cornell Association for Women in Mathematics** Fall 2022–Spring 2024  
Planned several AWM outreach events, notably a Julia Robinson Math Festival for middle school and high school students featuring various volunteer-led math activities.

**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 include 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  
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

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- Spoken languages: English (native), Mandarin Chinese (native), Spanish (elementary)
- Programming languages: Python, Javascript, Java, C, SQL, Wolfram,  $\text{\LaTeX}$
- Co-organizer of the Cornell Math Department Rock Climbing Club