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

RESEARCH

· Operator learning for hyperbolic partial differential equations (with A. Townsend), submitted. Preprint `arXiv:2312.17489`, 2023.

· Independence and conditional independence in discrete-time dynamic allocation problems, submitted. Preprint `arXiv:2312.09350`, 2023.

· Extensions of true skewness for unimodal distributions (with Y. Kovchegov, A. Negrón, C. Pertel), to appear in *Math. Methods Stat.*, 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

TEACHING

Columbia University

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

TALKS

· *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

· *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
· *Extensions of true skewness for unimodal distributions* (poster) — 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

Outreach Co-chair for the Cornell Association for Women in Mathematics — Fall 2022–Spring 2024
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.

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
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: Python, Javascript, Java, C, SQL, Wolfram, LaTeX