

Noam Scully

nscully@uwaterloo.ca • <https://noamscully.github.io>

Education

Perimeter Institute for Theoretical Physics & University of Waterloo Waterloo, ON, 2025–
PhD, Physics (Quantum Information). Thesis advisors: Professor Sisi Zhou and Professor David Gosset.

Yale University New Haven, CT, 2021–25
B.S., Mathematics

Brookline High School Brookline, MA, 2016–20

Research Experiences

Visiting Scholar at Boston Univeristy Condensed Matter Theory Summer 2024
Theoretical condensed matter physics research on using the Wigner-Weyl transform for semiclassical approximations. Mentored by Professor Anatoli Polkovnikov.

Final Research Project for Independent Study in Category Theory Spring 2024
Studied category theory at Yale advised by Professor Pablo Boixeda Alvarez, concluding with an original research project establishing a category-theoretic generalization of measures and integration.

Summer Undergraduate Math Research at Yale (SUMRY) Summer 2023
Geometry and dynamics research on translation surfaces. Mentored by Professor Taylor McAdam and Dr. Fernando Al Assal. Submitted paper for publication. Preprint: <https://arxiv.org/abs/2508.19252>.

Yale College First-Year Summer Research Fellowship in the Sciences & Engineering Summer 2022
Astrophysics research on how feedback affects dark matter halos. Mentored by Professor Daisuke Nagai.

Polymath Jr Research Experience for Undergraduates Summer 2021
Combinatorics research on infinite square-free words, mentored by Professor Eric Rowland of Hofstra University. Published in The Electronic Journal of Combinatorics: <https://doi.org/10.37236/11659>.

Leadership, Teaching, and Awards

Perimeter Institute PhD Residency Program Award 2025–2030
Supports my PhD research at the Perimeter Institute.

Yale Grace Hopper College Daniel Seigel Award 2025
For a student who exemplifies a love of learning, a spirit of integrity, and a commitment to kindness.

Yale Math Department Student Advisory Committee 2024–25
Elected by the math major student body to improve the major and foster community.

Grace Hopper Search Advisory Committee for Next Head of College 2024
Student representative on the search committee for hiring the next Head of Grace Hopper College at Yale.

Yale Poorvu Center for Teaching and Learning 2023–25
Undergraduate Learning Assistant for linear algebra and real analysis courses, holding office hours and running proof workshops. Private tutor in linear algebra and group theory.

The Purple Crayon of Yale Improv Comedy 2021–25
Performed in comedy shows and served as director, treasurer, and tour organizer.

Online Staff Member at Art of Problem Solving 2020–21
Worked as a classroom assistant, message board moderator, and grader for virtual math classes.