

# Noam Scully

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## Education

**The Perimeter Institute for Theoretical Physics and the 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.

**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 lexicographically-least 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>.

## Service, Teaching, and Awards

**Perimeter Institute PhD Residency Program Award** *2025–2030*  
Supports PhD research advised by faculty at the Perimeter Institute.

**Yale Grace Hopper College Daniel Seigel Award** *2025*  
Recognizes 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 student body to help improve the math 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.