

# Noam Scully

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## Education

**Yale University** *Pursuing Intensive B.S. in Mathematics.* GPA: 3.78/4.0 *New Haven, CT, Class of 2025*

*Math courses:* linear algebra, real & complex analysis, vector analysis and manifolds, group theory, Lie theory, measure theory and fourier series, representation theory, Galois theory, commutative algebra, category theory

*Other selected courses:* quantum mechanics I & II, quantum information and computation, quantum error correction and fault tolerance, introductory mechanics and electricity & magnetism, algorithms

**Brookline High School** GPA: 4.0/4.0 *Brookline, MA, Class of 2020*

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## Research

**Visiting Scholar at Boston University Condensed Matter Theory** *Summer 2024*

Theoretical condensed matter physics research on using the Wigner-Weyl transform for semiclassical approximations. Mentored by Dr. Anatoli Polkovnikov at Boston University.

**Final Research Project for Independent Study in Category Theory** *Spring 2024*

Studied category theory with Dr. Pablo Boixeda Alvarez of Yale University, concluding with an original research project establishing a category-theoretic generalization of measures and integration.

**Summer Undergraduate Math Research at Yale (SUMRY REU)** *Summer 2023*

Geometry and dynamics research, studying saddle connections on translation surfaces with Dr. Taylor McAdam of Pomona College and Dr. Fernando Al Assal of the Max Planck Institute. Paper in preparation.

**Yale College First-Year Summer Research Fellowship in the Sciences & Engineering** *Summer 2022*

Astrophysics research on how feedback affects dark matter halos with Dr. Daisuke Nagai at Yale University.

**Polymath Jr. Research Experience for Undergraduates** *Summer 2021*

Combinatorics research on lexicographically-least infinite square-free words, mentored by Dr. Eric Rowland of Hofstra University. Published in The Electronic Journal of Combinatorics: <https://doi.org/10.37236/11659>.

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## Teaching

**Yale Poorvu Center for Teaching and Learning – ULA and Private Tutor** *2023–*

Undergraduate Learning Assistant (ULA) for linear algebra and real analysis, holding office hours and running proof workshops. Private tutor in linear algebra and group theory.

**Art of Problem Solving – Online Staff Member** *2020-21*

Classroom assistant, message board moderator, and grader for online math classes.

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## Extracurriculars, Skills, and Service

### Coding Experience

Familiar with Python, Haskell,  $\text{\LaTeX}$ , HTML/CSS, and Mathematica.

**Yale Math Department Student Advisory Committee (SAC)** *2024–*

Volunteer with the Yale Math Department to improve the math major and foster community.

**The Purple Crayon of Yale Improv Comedy** *2021–*

Served as director, treasurer, and tour organizer.

**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.