

# ONYX GAUTAM

onyxg@princeton.edu

## EDUCATION

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<b>PhD in Mathematics</b> , Princeton University	Fall 2023–present
<b>B.S. in Mathematics with honors</b> , Stanford University	Fall 2019–Spring 2023

## PAPERS

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<b>Late-time tails and mass inflation for the spherically symmetric Einstein–Maxwell–scalar field system</b> (2024)
arXiv:2412.17927

## TALKS

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Singularities and Cosmic Censorship from Vacuum to Matter, Fields Institute	May 2026
Elaine Hubbard PDE Seminar, Georgia Tech	January 2026
Extremal Black Holes and the Third Law of Black Hole Thermodynamics, ICERM	January 2026

## TEACHING AND GRADING

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<b>Teaching Assistant</b>	Fall 2025
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*Princeton University Math Department*

Teach two precepts per week for MAT 203: Advanced Vector Calculus.

<b>Grader</b>	April 2020–December 2022
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*Stanford University Math Department*

Graded classes in complex analysis (Math 116), abstract algebra (Math 120), and representation theory (Math 122), as well as honors sequence in analysis and linear algebra (Math 61CM, 62CM, 63CM).

<b>Teaching Assistant</b>	March 2020–December 2022
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*Euler Circle*

Give one-on-one feedback to high-school students in college-level classes taught by Simon Rubenstein-Salzedo. Classes TAed: complex analysis (20 weeks), abstract algebra (group and Galois theory), introduction to proofs in number theory (twice).

## AWARDS AND HONOURS

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NSF Graduate Research Fellowship	2023
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Centennial Fellowship in the Natural Sciences and Engineering, Princeton University	2023
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Kennedy Thesis Prize, for top undergraduate honors thesis in natural sciences, Stanford University	2023
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J. E. Wallace Sterling Award, for top 25 students in humanities and sciences, Stanford University	2023
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