

## EDUCATION

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<b>Stanford University</b>	2021 – Present
Ph.D. in Mathematics Advisor: Kannan Soundararajan	
<b>Princeton University</b>	2017 – 2021
A.B. in Mathematics, <i>summa cum laude</i> Advisor: Peter Sarnak	

## PREPRINTS AND PUBLICATIONS

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6. Covering integers by binary quadratic forms  
Joint with K. Soundararajan.  
*In preparation.*
5. Primes of the form  $x^2 + dy^2$  and interactions of class groups  
*Preprint* (2025).
4. Crossing probabilities and random multiplicative functions  
Joint with R. Angelo, M. Aymone, O. Klurman, and M. Xu.  
*Available on request* (2025).
3. Extreme values of class group  $L$ -functions  
*Submitted* (2025).
2. Markoff triples and generating pairs of  $\mathrm{SL}_2(\mathbb{F}_p)$   
*Undergraduate thesis* (2021).
1. On Artin's conjecture for pairs of diagonal forms  
*Int. J. Number Theory* **18** (2022), no.3.

## AWARDS

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<b>Sigma Xi Book Award</b>	2021
Outstanding undergraduate research.	
<b>Phi Beta Kappa Society</b>	2021
Academic honor society.	
<b>Andrew H. Brown Prize</b> , <i>Princeton University</i>	2020
Outstanding juniors in Mathematics.	
<b>Shapiro Prize</b> , <i>Princeton University</i>	2020
Undergraduate academic excellence.	
<b>International Mathematical Olympiad</b>	2015 – 2017
Silver (2016, 2017) and bronze (2015) medals.	

## TALKS

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<i>Quebec-Vermont Number Theory Seminar</i>	
Concordia University – Canada	Nov. 2025

*Stanford Analytic Number Theory Seminar*  
Stanford University – US Nov. 2025  
*Maine-Quebec Number Theory Conference*  
University of Maine – US Oct. 2025

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CONFERENCES

*Maine-Quebec Number Theory Conference*  
University of Maine – US Oct. 2025  
*Interactions between Harmonic Analysis, Homogeneous Dynamics, and Number Theory*  
SLMath – US Mar. 2025  
*1st Brazilian Workshop in Analytic Number Theory*  
IMPA – Brazil Oct. 2024  
*Visions in Arithmetic and Beyond: Celebrating Peter Sarnak’s Work and Impact*  
IAS & Princeton University – US June 2024

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SERVICE

**Journal Referee**

Int. Math. Res. Not. (IMRN), Math. Proc. Camb. Philos. Soc..

**Directed Reading Program, Stanford University** 2025  
Undergraduate mentor.

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TEACHING

**Teaching Assistant, Stanford University** 2021 – Present

MATH 155: *Analytic number theory*  
MATH 110: *Number theory for cryptography*  
MATH 62: *Modern Mathematics (discrete methods)*  
MATH 120: *Groups and rings*  
MATH 109: *Groups and symmetry*  
MATH 21: *Calculus*  
MATH 20: *Calculus*

**Olympiad Instructor**

*AwesomeMath Summer Camp*  
Cornell University – US July 2018  
Online – US July 2020  
*International Mathematics Summer Camp*  
BIMSA – China June 2023  
BIMSA – China June 2024

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PERSONAL

Age: 27.  
Citizenship: *Brazilian*.  
Languages: *Portuguese, English, German (beginner)*.