

Education

- **Scuola Normale Superiore** Pisa, Tuscany, IT  
*PhD in Logic & Philosophy of Mathematics* 2024 - 2028
  - HuME (The Human Mind and its Explanations) scholarship, joint with University of Milan and IUSS Pavia
  - Advisors: Mario Piazza, Gabriele Pulcini
- **Princeton University** Princeton, NJ, USA  
*A.B. in Mathematics* 2018 - 2023
  - Thesis Title: *p-adic Hodge Theory and derived-Hodge-to-de-Rham spectral sequences*
  - Advisor: Bhargav Bhatt

Awards, Grants & Honors

HuME PhD scholarship, Scuola Normale Superiore . . . . .	2024
Sigma Xi Honors Society, Princeton University . . . . .	2023
Undergraduate research grant, Princeton University . . . . .	2022
NSF REU grant, Tufts University . . . . .	2021
NSF REU grant, Georgia Institute of Technology . . . . .	2020
NSF RTG grant, University of Notre Dame . . . . .	2019
Stone Edge Observatory grant, University of Chicago . . . . .	2018

Publications & Professional Activity

- **Concordances of sums of alternating torus knots and their mirrors to L-space knots**, Accepted, to appear in *Knot Theory and its Ramifications*, [arXiv:2210.08055](#). and [poster](#).
- *Geometric Techniques in Topological Data Analysis: Toward Persistent Hodge Theory* ([slides](#)). Arete, Northridge, CA, September 2023.
- **p-adic Hodge Theory and derived-Hodge-to-de-Rham spectral sequences**, Princeton Senior thesis, ([link](#)).
- **Classifying Brieskorn Varieties and Brieskorn Manifolds**, Princeton Junior thesis, ([link](#)).
- *Concordances of linear combinations of Torus knots to L-space knots*. ([link](#)), Joint Mathematics Meeting, AMS. April 2022
- *Classifying Finitely Presented Infinite Groups*. ([link](#)), Joint Mathematics Meeting, AMS. April 2022
- *Geometric Aspects of Growth of Finitely Generated Groups* ([video](#)). REU Vir(tu)al Conference 2021, University of Connecticut, August 2021.