

Daniel Hu

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Research Interests

Arithmetic geometry, automorphic representation theory, and p -adic Hodge theory.

Education

Harvard University

Ph.D. in Mathematics

Cambridge, MA

Sep 2023 - Present

Princeton University

Bachelor of Arts in Mathematics

Princeton, NJ

Sep 2019 - May 2023

- Highest honors, GPA: 4.0/4.0. Senior thesis advisor: Shou-Wu Zhang.

Publications

- [3] *Modular forms and an explicit Chebotarev variant of the Brun–Titchmarsh theorem* (with H. R. Iyer and A. Shashkov). *Research in Number Theory* 9 (2023) no. 46.
- [2] *On a Mertens-type conjecture for number fields* (with I. Kaneko, S. Martin, and C. Schildkraut). *Mathematical Proceedings of the Cambridge Philosophical Society*, to appear.
- [1] *Order of zeros of Dedekind zeta functions* (with I. Kaneko, S. Martin, and C. Schildkraut). *Proceedings of the American Mathematical Society* 150 (2022), 5111-5120.

Awards

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| Middleton Miller '29 Prize. | <i>May 2023</i> |
| Election to the Sigma Xi chapter at Princeton University. | <i>May 2023</i> |
| Early Election to the Phi Beta Kappa chapter at Princeton University. | <i>Sep 2022</i> |
| Andrew H. Brown Prize. | <i>May 2022</i> |
| Barry M. Goldwater Scholarship. | <i>Mar 2022</i> |
| Shapiro Prize for Academic Excellence. | <i>Sep 2021</i> |
| Shapiro Prize for Academic Excellence. | <i>Sep 2020</i> |