

Shilin Lai

Contact Information

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Personal Information

Year of Birth: 1996 Citizenship: Canadian

Research Interests

Iwasawa theory, automorphic forms, p -adic L -functions

Employment

2022 — Now Instructor with Bing Postdoctoral Fellowship, **University of Texas at Austin**

Education

2017 — 2022 Ph.D. in Mathematics, **Princeton University**
Advisor: Christopher Skinner

2016 — 2017 M.Math. (Part III) **Churchill College, University of Cambridge**

2013 — 2016 B.A. in Mathematics **Churchill College, University of Cambridge**

Research Talks

Aug 2022 ICTS Elliptic curves and special values of L -functions
Jul 2022 CMND Thematic Program in p -adic L -functions and Eigenvarieties
Apr 2022 Columbia automorphic forms and arithmetics seminar
Oct 2021 UCSB seminar on geometry and arithmetics
Caltech number theory seminar

Expository Talks

Sep 2019 *Hilbert's tenth problem*, Princeton graduate student seminar
May 2019 *Two variable Iwasawa main conjecture*, PU/IAS number theory working seminar
Feb 2019 *Class groups and Galois cohomology*, PU/IAS number theory working seminar
Oct 2018 *Preparations for the Iwasawa main conjecture*, PU/IAS number theory working seminar
Feb 2018 *Norms of singular moduli*, Princeton graduate student seminar

Teaching Experience

Fall 2022 Lecturer, Calculus I
Fall 2021 Preceptor, Calculus II
Spring 2020 Lecturer, Linear Algebra

Honors and Awards

2017 — 2021 Centennial Fellowship, Princeton University
2016 Edwyn Charles Hart Memorial Prize, Churchill College
Christine and Hermann Bondi Prize, Churchill College
Tout Tristram Prizes for Mathematics, Churchill College
2015 Christine and Hermann Bondi Prize, Churchill College
Tout Tristram Prizes for Mathematics, Churchill College

Other Experiences

Spring 2022 Co-organizer: Mathy physics for mathematicians seminar
Fall 2020 Co-organizer: Learning seminar on p -adic automorphic forms
Fall 2019 Co-organizer: Learning seminar on theta correspondences
2018 — 2019 Co-organizer: Princeton graduate student seminar
2015 — 2016 Served on the curriculum committee at University of Cambridge

Relevant Skills

Languages: – Fluent: Mandarin, English
– Reading: French, German
Programming: – Competent: Python, C++, Java
– Usable: Magma, Sage, Mathematica, Lean

(Last updated 2022 SEP 27)