Yu Xin

CONTACT INFORMATION	Department of Mathematics Bar-Ilan University Ramat-Gan, 5290002, Israel	yu.xin@biu.ac.il

EMPLOYMENT

Bar-Ilan University, 2023-current

Postdoctoral Researcher, Mathematics

EDUCATION

Brandeis University, 2017-2023

Ph.D., Mathematics, August 2023

Brandeis University, 2015-2017

Master of Art, Mathematics, May 2017

Tongji University, 2010-2015

Bachelor of Science, Mathematics and Applied Mathematics, July 2015

RESEARCH INTERESTS

Number Theory, Representation Theory, Automorphic Representation, Period Integral, Local Langlands Correspondence

PAPERS

On the Rankin-Selberg gamma factor of simple supercuspidal representations of the unitary group for p-adic local fields, submitted, arXiv:2410.11995
On the Sp_{2n}-distinguished spectrum of U_{2n}, submitted, arXiv:2412.05518

HONORS AND AWARDS

Harold I Levine Endowed Fellowship Prize, 2022
Summer research funding, 2021

SELECTED TALKS

On the Rankin-Selberg gamma factor of simple supercuspidal representations of the unitary group for p-adic local fields, p-adic Lie group representation theory seminar, Beihang University, Nov. 2024

TEACHING EXPERIENCE

Instructor of Math 10a, Techniques of Calculus (a), Spring 2020, Fall 2019, Spring 2019, Brandeis University
Instructor of Math 10b, Techniques of Calculus (b), Summer 2019, Brandeis University
Instructor of Math 15a, Applied Linear Algebra, Fall 2022, Spring 2023, Brandeis University

OTHER EXPERIENCE

Major Exam (October 2021)
- Lecture Topic: On the Casselman-Shalika Formula
- Advisor: Omer Offen

Minor Exam (May 2021)
- Lecture Topic: The Root Datum of a Reductive Group
- Advisor: Jöel Bellaïche

Instructor of Brandeis Graduate Students Prep Camp, Algebra (August 2021, 2022)

MISCELLANIES   Language Proficiency: Chinese(native), English(fluent), Japanese(fluent)