

Yu Xin

CONTACT INFORMATION	Department of Mathematics Bar-Ilan University Ramat-Gan, 200092, Israel yu.xin@biu.ac.il
EMPLOYMENT	Bar-Ilan University , Oct. 2023 – Current Postdoc in Mathematics Mentor: Eyal Kaplan
EDUCATION	Brandeis University , Aug. 2017 – Aug. 2023 Ph.D., Mathematics, August 2023 <ul style="list-style-type: none">• Dissertation Title: <i>On the Automorphic distinguished spectrum of the Pair (U_{2n}, Sp_{2n})</i>• Advisor: Omer Offen Brandeis University , Aug. 2015 – May 2017 Master of Art, Mathematics, May 2017 Tongji University , Sep. 2010 – July 2015 Bachelor of Science, Mathematics and Applied Mathematics, July 2015 <ul style="list-style-type: none">• Thesis Title: <i>Some relations of multiple zeta values and their applications</i>• Advisor: Zhonghua Li
RESEARCH INTERESTS	Langlands L -function, period integral, Rankin-Selberg integral, spectral decomposition
PUBLICATIONS & PREPRINTS	– <i>On the Rankin–Selberg gamma factor of simple supercuspidal representations of the unitary group for p-adic local fields</i> (with Philip Barron), <i>Journal of Number Theory</i> 271 (2025), 526–547. – <i>On the Sp_{2n}-distinguished spectrum of U_{2n}</i> (with Kewen Wang), preprint available at arXiv: 2412.05518. – <i>Explicit formulas for the Bessel models: odd general spin groups</i> , preprint available at arXiv: 2509.03278.
HONORS & AWARDS	Harold I Levine Endowed Fellowship Prize, 2022 Summer Research Funding, 2021
SELECTED TALKS	<i>Explicit formulas for Bessel models: odd general spin groups</i> , contributed talk, NSF–CBMS Conference: Representations of p -adic Groups and Noncommutative Geometry, St. John’s College, New York, USA. June 2025 <i>On the Rankin–Selberg gamma factor of simple supercuspidal representations of the unitary group for p-adic local fields</i> , seminar talk, p -adic Lie group representation theory seminar, Beihang University, Beijing, China. November 2024 <i>An Introduction to the Langlands Program</i> , seminar talk, Graduate Student Seminar of Department of Mathematics, Brandeis University, Waltham, MA, USA. November

2021

TEACHING
EXPERIENCE

At Brandeis University:

Spring 2023	Instructor	Math 15a: Applied Linear Algebra
Fall 2022	Instructor	Math 15a: Applied Linear Algebra
Spring 2022	Teaching Assistant	Math 151b: Topology II
Fall 2021	Teaching Assistant	Math 141b: Analysis II
Spring 2021	Teaching Assistant	Math 39a: Combinatorics
Fall 2020	Teaching Assistant	Math 26a: Logic and Proof
Spring 2020	Instructor	Math 10a: Techniques of Calculus (a)
Fall 2019	Instructor	Math 10a: Techniques of Calculus (a)
Summer 2019	Instructor	Math 10b: Techniques of Calculus (b)
Spring 2019	Instructor	Math 10a: Techniques of Calculus (a)
Spring 2018	Teaching Assistant	Math 36b: Statistics
Fall 2017	Teaching Assistant	Math 39a: Combinatorics

CONFERENCES
& WORKSHOPS

NSF-CBMS Conference: Representations of p -adic Groups and Noncommutative Geometry, St. John's College, New York, USA, June 9–13, 2025

Number Theory, Quantum Chaos and Their Interfaces, Research Workshop of the Israel Science Foundation, A Conference in Honor of Zeev Rudnick's 64th Birthday, TAU, Tel Aviv, Israel, May 18–22, 2025

Representation Theory and Algebraic Geometry, Conference on the Occasion of Joseph Bernstein's 80th Birthday, Weizmann Institute, Rehovot, Israel, May 5–8 (May 7–8 on Zoom), 2025

Winter STAR Workshop 2024, Weizmann Institute, Rehovot, Israel, December 24–26, 2024

The 25th Autumn Workshop on Number Theory: Representation Theory of p -adic Groups and Related Topics, Hokkaido University, Sapporo, Japan, October 28 – November 1, 2024

OTHER
EXPERIENCE

Major Exam of Ph.D. program at Brandeis (October 2021)

- Lecture Topic: On the Casselman-Shalika Formula
- Advisor: Omer Offen

Minor Exam of Ph.D. program at Brandeis (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)

LANGUAGE
PROFICIENCY

Chinese(native), English(fluent), Japanese(fluent)