

ALEXANDER HAZELTINE

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EDUCATION

Ph.D. Mathematics, Purdue University August 2016 - May 2023
Advisors: Prof. Baiying Liu and Prof. Freydoon Shahidi
Thesis: On intersections of local Arthur packets for classical groups

B.S. Mathematics, North Carolina State University August 2012 - May 2016
Budapest Semesters in Mathematics January 2015 - May 2015

EMPLOYMENT

Postdoctoral Assistant Professor, University of Michigan August 2023 - Present

PUBLICATIONS

1. Alexander Hazeltine, Dihua Jiang, Baiying Liu, Chi-Heng Lo, and Qing Zhang, On unitary representations of Arthur type for classical groups. Preprint, 101 pages. 2024. arxiv:2410.11806.
2. Alexander Hazeltine, Baiying Liu, and Chi-Heng Lo, On the enhanced Shahidi conjecture and global applications. Submitted, 28 pages. 2024. arXiv:2404.05773.
3. Alexander Hazeltine, The Adams conjecture and intersections of local Arthur packets. Submitted, 41 pages. 2024. arXiv:2403.17867.
4. Alexander Hazeltine, Baiying Liu, Chi-Heng Lo, and Freydoon Shahidi, On the upper bound of wavefront sets of representations of p -adic groups. Submitted, 43 pages. 2024. arXiv:2403.11976.
5. Alexander Hazeltine, A converse theorem for quasi-split SO_{2l} over finite fields. Preprint, 2024.
6. Alexander Hazeltine, On the local converse theorem for quasi-split SO_{2l} . Preprint, 2024.
7. Alexander Hazeltine and Baiying Liu, A converse theorem for split SO_{2l} over finite fields. *Acta Math. Sin. (Engl. Ser.)* **40** (2024), no. 3, 731-771.
8. Alexander Hazeltine and Baiying Liu, On the local converse theorem for split SO_{2l} . In revision, 35 pages. 2024. arXiv:2301.13092.
9. Alexander Hazeltine, Baiying Liu, and Chi-Heng Lo, On the intersection of local Arthur packets for classical groups. Submitted, 125 pages. 2022. arXiv:2201.10539.
10. Alexander Hazeltine, Baiying Liu, Chi-Heng Lo, and Qing Zhang, The closure ordering conjecture on local L -parameters in local Arthur packets of classical groups. Submitted, 67 pages. 2022. arXiv:2209.03816.

AWARDS

Purdue University T. T. Moh Graduate Scholarship April 2022
Purdue University Excellence in Teaching Award April 2022
Purdue University Teaching Academy Graduate Teaching Award April 2022
Ross-Lynn Research Scholars Grant 2021–2022
Purdue University Teaching Assistant Certificate of Merit April 2021
Purdue University Teaching Assistant Certificate of Merit April 2020
AMS Graduate Student Travel Grant December 2018

PRESENTATIONS

Mathematics Colloquia, University of Michigan Dearborn	February 17, 2025
CMS Winter Meeting, Kwantlen Polytechnic University	November 30, 2024
Number Theory Seminar, John Hopkins University	October 2, 2024
Representation Theory / Number Theory Seminar, University of Utah	September 18, 2024
24 Hours of Theta, University of Utah	September 10, 2024
SIU Conference, Southern Illinois University	May 17, 2024
AMS Sectional Meeting, Howard University	April 6, 2024
Junior Number Theory Days, John Hopkins University	December 3-4, 2022
Algebra and Number Theory Seminar, University of Arizona	September 20, 2022
Automorphic Forms and Representation Theory Seminar, Purdue University	September 8, 2022
AMS Sectional Meeting, Purdue University	March 26-27, 2022
Midwest Representation Theory Conference, University of Michigan	March 11-13, 2022
Automorphic Forms and Representation Theory Seminar, Purdue University	February 10, 2022
Automorphic Forms and Representation Theory Seminar, Purdue University	April 8, 2021

SERVICE AND OUTREACH

REU at the University of Michigan	Summer 2025
Purdue AWM Mentor/Mentee Program Mentor	Spring 2017 - Spring 2023
<i>The Purdue AWM Mentor/Mentee Program matches incoming graduate students with current graduate students in order to provide guidance in their transition from undergraduate to graduate students.</i>	
(Organizer) Purdue seminar on the generalized doubling method for graduate students	Summer 2019
(Organizer) Purdue seminar on the theta correspondence for graduate students	Fall 2018
TRIO Student Supportive Services (SSS) Tutor at North Carolina State University	Spring 2016
<i>The TRIO SSS program is a part of a federal program to serve and assist under-resourced students.</i>	

Professional Memberships

American Mathematical Society (AMS)