

CONTACT INFORMATION	School of Mathematics and Statistics Xi'an Jiaotong University	Email: wei.863@xjtu.edu.cn weizhining.863@gmail.com Webpage: https://weizhining.github.io/
EMPLOYMENT	Xi'an Jiaotong University , Xi'an, Shaanxi, China Assistant Professor Jul 2026 - present Brown University , Providence, RI, USA Tamarkin Assistant Professor Jul 2023 - Jun 2026	
EDUCATION	The Ohio State University , Columbus, OH, USA Ph.D., Mathematics. Advisor: Wenzhi Luo. Aug 2017 - May 2023 Nankai University , Tianjin, China B.S., Mathematics. Sept 2013 - Jun 2017	
RESEARCH INTERESTS	Number Theory and Representation Theory. In particular, I am interested in the analytic theory of automorphic forms and representations.	
PUBLICATIONS & PREPRINTS	<i>First moment of derivatives of L-functions in a nonlinear family</i> (with Tinghao Huang). 2026. <i>Second moment of central values of half-integral weight modular forms and subconvexity</i> (with Steven Creech, Henry Twiss and Peter Zenz). 2025. <i>Low-lying zeros of Hilbert modular L-functions weighted by powers of central L-values</i> (with Liyang Yang and Shifan Zhao). Submitted, 2025. <i>Effective open image theorem and a Linnik type problem for elliptic curves</i>. (with Tian Wang). Submitted, 2025. <i>Relative Trace Formula and Uniform Non-vanishing of Central L-values of Hilbert Modular Forms</i>. (with Liyang Yang and Shifan Zhao). Submitted, 2024. <i>Some remarks on strong multiplicity one for paramodular forms</i>. (with Xiyuan Wang, Pan Yan and Shaoyun Yi). <i>Mathematika</i>, 2026. <i>On distinguishing Siegel cusp forms of degree two</i> (with Shaoyun Yi). To appear in <i>Int. J. Number Theory</i>, 2026. <i>On Möbius functions from automorphic forms and a generalized Sarnak's conjecture</i> (with Shifan Zhao). <i>Q. J. Math.</i>, 2024. <i>Generalizations of the Erdős-Kac Theorem and the Prime Number Theorem</i> (with Biao Wang, Pan Yan and Shaoyun Yi). <i>Communications in Mathematics and Statistics</i>, 2025. <i>Linear Relations of Siegel Poincaré Series and Non-vanishing of the Central Value of Spinor L-functions</i>. <i>Journal de Théorie des Nombres de Bordeaux</i>, 2022. <i>Thesis: Sums of k-th Powers and Fourier Coefficients of Cusp forms</i>. <i>Ramanujan Journal</i>, 2023.	

1. *First moment of derivative L -functions in a nonlinear family* Jun 19, 2026
Xiamen University
2. *First moment of derivative L -functions in a nonlinear family* Jun 12, 2026
Shandong University
3. *Low-lying Zeros of Hilbert Modular L -functions Weighted by Powers of Central L -values* Oct 5, 2025
Maine-Québec Number Theory Conference 2025
4. *Effective open image theorem and a Linnik type problem for elliptic curves* July 4, 2025
ShanghaiTech University
5. *The random matrix theory, the weighted moments and applications* Jun 15, 2025
Zhejiang University
6. *The random matrix theory, the weighted moments and applications* Jun 6, 2025
Shandong University
7. *On the Nonvanishing of Central Values* Oct 24, 2024
9th Qilu Youth Forum at Shandong University (online)
8. *Effective open image theorem for pairs of elliptic curves* May 23, 2024
36th Automorphic Forms Workshop at Oklahoma State University
9. *Lecture on an Introduction to Siegel Modular Forms* May 20, 2024
36th Automorphic Forms Workshop at Oklahoma State University (expository lecture)
10. *Möbius disjointness for automorphic L -functions* May 15, 2024
International conference on L -functions and automorphic forms at Vanderbilt University (lightning talk)
11. *The refined strong multiplicity one for paramodular groups.* Apr 13, 2024
TORA XIII, (speed talk)
12. *Effective Open Image Theorem for pairs of elliptic curves.* Apr 9, 2024
Number Theory Seminar at Texas A&M University
13. *On Möbius functions from automorphic forms and a generalized Sarnak's conjecture.* Oct 2, 2023
Seminar in Theory and Applications of Discrete Math, Linear Algebra and Number Theory, Washington State University (online)
14. *On Möbius functions from automorphic forms and a generalized Sarnak's conjecture.* Oct 2, 2023
Algebra Seminar at Brown University
15. *The Refined Strong Multiplicity One and its Applications.* Jun 20, 2023
Chinese Academy of Sciences
16. *The Refined Strong Multiplicity One and its Applications.* Jun 16, 2023
Shandong University
17. *The Refined Strong Multiplicity One and its Applications.* Jun 9, 2023
Xiamen University
18. *The Zero Density Theorem for Rankin-Selberg L -functions and its applications.* Jan 6, 2023
Joint Mathematics Meetings, Special Session on Analytic Number Theory

19. *Linear Relations of Siegel Poincaré Series and Non-vanishing of the Central Value of Spinor L-functions.* Dec 19, 2022
Copenhagen Number Theory Seminar (online)
20. *On distinguishing Siegel cusp forms of degree two* Sep 24, 2022
Palmetto Number Theory Series 34
21. *Linear Relations of Siegel Poincaré Series and Non-vanishing of the Central Values of Spinor L-functions* Mar 17, 2022
34th Automorphic Forms Workshop at BYU (online)
22. *Linear Relations of Siegel Poincaré Series and Non-vanishing of the Central Values of Spinor L-functions* Nov 23, 2021
Morningside Seminar on Number Theory at Morningside Center of Mathematics (online)
23. *Böcherer's conjecture and the Non-vanishing of Central Values* Nov 22, 2021
HAAR (Harmonic Analysis and Automorphic Representations) Zoominar (online)
24. *Linear Relations of Siegel Poincaré Series and Non-vanishing of the Central Values of Spinor L-functions* Oct 3, 2021
Maine-Québec Number Theory Conference (online)
25. *Linear Relations of Siegel Poincaré Series and Non-vanishing of the Central Values of Spinor L-functions* Sept 26, 2021
PALmetto Joint Arithmetic, Modularity, and Analysis Series III (online)