

# Runze Wang

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<https://mathrunze.github.io>

## Education

Ph.D. Zhejiang University 2021-(2026)  
Advisor: Prof. Fan Gao  
Thesis: L-parameters for genuine principal series representations  
  
B.S. Zhejiang University 2017-2021

## Languages

Conversant in Chinese. Fluent in English.

## Research

### Preprints and Publications

1. The stable wave front set of theta representations  
with Edmund Karasiewicz and Emile Okada, (arXiv:2411.02073)
2. Hecke algebras for tame genuine principal series and local Shimura correspondence  
to appear in Trans. Amer. Math. Soc., (arXiv:2405.06254)
3. Formal degrees of genuine Iwahori-spherical representations  
with Ping Dong and Fan Gao, Q. J. Math. 74 (2023), no.4, 1597-1618. (arXiv:2304.06595)

### In Preparation

1. On the stable wavefront sets of genuine Iwahori-spherical representations  
with Fan Gao
2. Stable wavefront sets for GL-covers of Kazhdan–Patterson or Savin types  
with Fan Gao and Jiandi Zou
3. On the restriction problems of genuine Iwahori-spherical representations

### PhD thesis

L-parameters for genuine principal series representations

## Awards

China National Scholarship, ZJU, 2025  
Lingjun Leading Scholarship, ZJU, 2022-2023

## Teaching

Representation theory of groups and algebras (Teaching Assistant)	2024 Fall	ZJU
Algebra II (Teaching Assistant)	2023 Spring	ZJU

## Conferences

Recent Progress on Representation Theory of Reductive Groups and Quantum Theory	2025.7	Tianjin, China
Conference on Solvable Lattice Models, Number Theory and Combinatorics	2024.6	Dublin, Ireland
National Conference on Algebra	2023.11	Quanzhou, China
Workshop on L-functions and Related Topics	2022.8	Zhangzhou, China

## Talks

1. “On the stable wavefront set of genuine Iwahori-spherical representations”  
at the Chinese University of Hong Kong, Shenzhen 2025.11 Shenzhen, China
2. “Local Langlands correspondence for genuine principal series representations”  
The 3rd Conference on Frontiers in Mathematics for PhD Students, at Peking University 2025.11 Beijing, China
3. “Type theory for genuine principal series representations”  
Joint FDU-NUS-ZJU PhD Forum in Mathematics, at National University of Singapore 2025.6 Singapore