Rui CHEN

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Education

National University of Singapore — Singapore
Doctor of Philosophy — *08/2016 - 05/2021*
- **Supervisor:** Prof. Wee Teck Gan

University of Science and Technology of China — Hefei, China
Bachelors of Science in Mathematics — *09/2012 - 06/2016*

Experience

School of Mathematical Sciences, Zhejiang University — Hangzhou, China
Assistant professor — *01/2025 - now*

Institute for Advanced Study in Mathematics, Zhejiang University — Hangzhou, China
Post-doctoral — *01/2022 - 12/2024*
- **Mentor:** Prof. Yifeng Liu

National University of Singapore — Singapore
Research Assistant — *02/2021 - 11/2021*

Publications

Big theta equals small theta generically — 09/2023
- joint with: Jialiang Zou

Acta Mathematica Sinica, English Series link

Twisted Gan-Gross-Prasad conjecture for certain tempered L-packets — 05/2022
- joint with: Wee Teck Gan

Journal of the Institute of Mathematics of Jussieu link

Arthur's multiplicity formula for even orthogonal and unitary groups — 03/2021
- joint with: Jialiang Zou

Journal of the European Mathematical Society link

Local Langlands correspondence for even orthogonal groups via theta lifts — 08/2020
- joint with: Jialiang Zou

Selecta Mathematica, New Series link

Local Langlands correspondence for unitary groups via theta lifts — 08/2020
- joint with: Jialiang Zou

Representation Theory link

Preprints

Godement–Jacquet L-function and homological theta lifting — 07/2025
- joint with: Yufeng Li, Xiaohuan Long, Chenhao Tang, Jialiang Zou

preprint arXiv:2507.07531

Non-tempered Gan–Gross–Prasad conjecture for Archimedean general linear groups — 07/2025
- joint with: Cheng Chen

preprint arXiv:2507.04355

Ext-analogues of Gan–Gross–Prasad models vanish for tempered representations — 03/2023

preprint arXiv:2303.12619

Unitary Friedberg-Jacquet periods   **08/2021**
- joint with: Wee Teck Gan

preprint arXiv:2108.04064, *submitted to Kudla's volume*

Theta correspondence and Arthur packets   **04/2021**
- joint with: Jialiang Zou

preprint arXiv:2104.12354

Talks

On non-tempered GGP problem   **08/2025**
- Conference on relative langlands program

Homological theta lifting and applications   **09/2024**
- 24 Hours of Theta Conference

Homological aspects of theta correspondence   **07/2024**
- Conference on Real Reductive Groups and Theta Correspondence

A refinement of the Adams' conjecture on theta correspondence   **04/2024**
- SCMS Number Theory Seminar

Branching laws, Ext-vanishing phenomenon and applications   **02/2024**
- NUS Representation Theory and Number Theory Seminar

Refined Adams conjecture via LIR   **11/2023**
- BIRS Arthur packet workshop

Ext-vanishing result for Gan-Gross-Prasad model   **06/2023**
- PKU/BICMR Number Theory Seminar

On non-tempered Gan-Gross-Prasad conjecture   **12/2022**
- Mini-Workshop on Representation Theory of p-adic Groups

Variations of GGP conjecture: twisted and non-tempered case   **08/2022**
- Fudan-SCMS Two-day workshop on Number Theory

Teaching

Algebra II   **Zhejiang University**
Teaching Assistant   *2024 Spring*

Algebra I   **Zhejiang University**
Teaching Assistant   *2023 fall*

Calculus   **National University of Singapore**
Tutor   *2017 fall*