

# RUI CHEN

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## Education

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### National University of Singapore

*Doctor of Philosophy*

- **Supervisor:** Prof. Wee Teck Gan

Singapore

08/2016 - 05/2021

### University of Science and Technology of China

*Bachelors of Science in Mathematics*

Hefei, China

09/2012 - 06/2016

## Experience

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### School of Mathematical Sciences, Zhejiang University

*Assistant professor*

Hangzhou, China

04/2025 - now

### Institute for Advanced Study in Mathematics, Zhejiang University

*Post-doctoral researcher*

Hangzhou, China

01/2022 - 12/2024

- **Mentor:** Prof. Yifeng Liu

### National University of Singapore

*Research Assistant*

Singapore

02/2021 - 11/2021

## Publications

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### 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

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### 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](#)

<b>Unitary Friedberg-Jacquet periods</b>	<b>08/2021</b>
• joint with: Wee Teck Gan	
<i>preprint</i> <a href="https://arxiv.org/abs/2108.04064">arXiv:2108.04064</a> , <i>submitted to Kudla's volume</i>	
<b>Theta correspondence and Arthur packets</b>	<b>04/2021</b>
• joint with: Jialiang Zou	
<i>preprint</i> <a href="https://arxiv.org/abs/2104.12354">arXiv:2104.12354</a>	
<b>Talks</b>	
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<b>On non-tempered GGP problem</b>	<b>08/2025</b>
• Conference on relative langlands program	
<b>Homological theta lifting and applications</b>	<b>09/2024</b>
• 24 Hours of Theta Conference	
<b>Homological aspects of theta correspondence</b>	<b>07/2024</b>
• Conference on Real Reductive Groups and Theta Correspondence	
<b>A refinement of the Adams' conjecture on theta correspondence</b>	<b>04/2024</b>
• SCMS Number Theory Seminar	
<b>Branching laws, Ext-vanishing phenomenon and applications</b>	<b>02/2024</b>
• NUS Representation Theory and Number Theory Seminar	
<b>Refined Adams conjecture via LIR</b>	<b>11/2023</b>
• BIRS Arthur packet workshop	
<b>Ext-vanishing result for Gan-Gross-Prasad model</b>	<b>06/2023</b>
• PKU/BICMR Number Theory Seminar	
<b>On non-tempered Gan-Gross-Prasad conjecture</b>	<b>12/2022</b>
• Mini-Workshop on Representation Theory of $p$ -adic Groups	
<b>Variations of GGP conjecture: twisted and non-tempered case</b>	<b>08/2022</b>
• Fudan-SCMS Two-day workshop on Number Theory	

## Teaching

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<b>Algebra II</b>	<b>Zhejiang University</b>
<i>Teaching Assistant</i>	<i>2024 Spring</i>
<b>Algebra I</b>	<b>Zhejiang University</b>
<i>Teaching Assistant</i>	<i>2023 fall</i>
<b>Calculus</b>	<b>National University of Singapore</b>
<i>Tutor</i>	<i>2017 fall</i>