Pengcheng Zhang

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EDUCATION

Max Planck Institute for Mathematics Bonn, Germany
Doctoral student, supervised by Don Zagier Jan 2022–present

St John's College, University of Oxford Oxford, UK
Master of Mathematics in Mathematics Oct 2017–Jun 2021

RESEARCH VISIT

The Abdus Salam International Centre for Theoretical Physics Trieste, Italy
Hosted by Vasily Golyshev and Don Zagier Jun 30–Jul 8, 2024

The University of Hong Kong Hong Kong, China
Hosted by Ben Kane Feb 19–23, 2024

SUSTech International Center for Mathematics Shenzhen, China
Hosted by Don Zagier Nov 22–Dec 17, 2021

PUBLICATIONS

[1] B. Bedert, G. Cooper, T. Oliver, and P. Zhang, "Twisting moduli for $GL(2)$", *J. Number Theory*, vol. 217, pp. 142–162, 2020, ISSN: 0022-314X,1096-1658.

RESEARCH TALKS AND PRESENTATIONS

- *Converse theorems for Hilbert modular forms* in the 36th Automorphic Forms Workshop at Oklahoma State University May 23, 2024
- *A converse theorem for Hilbert modular forms* in Oberseminar Anlytic Number Theory and Automorphic Forms at University of Bonn Nov 9, 2023
- *Converse theorems for automorphic forms* in St John's College Mathematics Seminar at St John's College, University of Oxford (with Benjamin Bedert) Mar 5, 2020

OTHER TALKS AND PRESENTATIONS

- *Orthogonal groups and their symmetric spaces* in the Study Group on Rigid Meromorphic Cocycles for Orthogonal Groups at Max Planck Institute for Mathematics Jan 24, 2023
- Several talks in Exponential Sum Learning Seminar at Max Planck Institute for Mathematics Nov 17, Dec 15, 2023, and Jan 12, 2024
- *L-functions and/in Selberg Class* in IMPRS Seminar at Max Planck Institute for Mathematics Jan 24, 2023

Conferences, Workshops, Research Schools Attended

- **New Advances in the Langlands Program: Geometry and Arithmetic** at University of Oxford
  Sep 30–Oct 4, 2024
- **School on Hodge Theory and Shimura Varieties** at University of Duisburg-Essen   Sep 23–27, 2024
- **Conference on Arithmetic Geometry** at Max Planck Institute for Mathematics   Jul 22–26, 2024
- **Modular Forms, L-functions, and Eigenvarieties** at École Normale Supérieure   Jun 18–21, 2024
- **The 36th Automorphic Forms Workshop** at Oklahoma State University   May 20–24, 2024
- **Shanks Conferences on L-functions and Automorphic Forms** at Vanderbilt University   May 13–16, 2024
- **Periods in Physics, Number Theory and Algebraic Geometry** at Hausdorff Research Institute for Mathematics   April 22–26, 2024
- **International Conference on Modular Forms and q-Series** at University of Cologne   March 11–15, 2024
- **Modular Curves and their Arithmetic** at University of Warwick   Dec 6–8, 2023
- **MM(P): Mahler Measures of Polynomials** at Radboud University Nijmegen   Oct 24–27, 2023
- **Modular Forms and Arithmetic Geometry** at TU Darmstadt   Sep 18–22, 2023
- **Young Number Theorists in Bonn** at at Max Planck Institute for Mathematics   Sep 11–15, 2023
- **Arithmetic of automorphic forms** at Laboratoire de Mathématiques d'Orsay   Sep 4–8, 2023
- **Early Number Theory Researchers Workshop 2023** at University of Bielefeld   Aug 23–25, 2023
- **Summer School on the Arithmetic of the Langlands Program** at University of Bonn   May 8–12, 2023
- **Arithmetic Statistics, Automorphic Forms, and Ergodic Methods** at Max Planck Institute for Mathematics
  Apr 24–28, 2023
- **Special values of L-functions** at Paderborn University   Mar 13–17, 2023
- **Conference on Motives and Automorphic Forms** at Max Planck Institute for Mathematics   Mar 6–10, 2023
- **Number theory meets p-adic representations** at University of Münster   Feb 13–17, 2023
- **Luxembourg Number Theory Day 2022** at University of Luxembourg   Dec 16, 2022
- **Early Number Theory Researchers Workshop 2022** at TU Darmstadt   Oct 26–28, 2022

Other Experiences

- Senior Counselor at Ross Mathematics Program (Ross/Asia) in Huangshan, China   Jul 9– Aug 10, 2018
- Junior Counselor at Ross Mathematics Program (Ross/Asia) in Huangshan, China   Jul 10– Aug 11, 2017

Languages

Chinese (native), English (fluent)