Pengcheng Zhang

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Vivatsgasse 7
53111 Bonn
Germany

EDUCATION

Max Planck Institute for Mathematics

Doctoral student, supervised by Don Zagier

Oxford, UK

St John's College, University of Oxford

Master of Mathematics in Mathematics

Oct 2017–Jun 2021

Bonn, Germany

Jan 2022-present

Research Visit

The Abdus Salam International Centre for Theoretical Physics

Hosted by Vasily Golyshev and Don Zagier

Trieste, Italy 30 Jun-8 Jul, 2024

The University of Hong Kong

Hosted by Ben Kane

Hong Kong, China 19–23 Feb, 2024

SUSTech International Center for Mathematics

Hosted by Don Zagier

Shenzhen, China 22 Nov-17 Dec, 2021

Publications and Preprints

- [1] Pengcheng Zhang. The 2-complexity of even positive integers. to appear in Integers.
- [2] Benjamin Bedert, George Cooper, Thomas Oliver, and Pengcheng Zhang. Twisting moduli for GL(2). J. Number Theory, 217:142–162, 2020.
- [3] Pengcheng Zhang. On converse theorems for Hilbert modular forms assuming unramified twists. preprint.

Talks in research seminars/conferences

- Elliptic curves and coefficients of meromorphic modular forms in Oberseminar Anlytic Number Theory and Automorphic Forms at University of Bonn 21 Nov, 2024
- Converse theorems for Hilbert modular forms in the 36th Automorphic Forms Workshop at Oklahoma State
 University
 23 May, 2024
- A converse theorem for Hilbert modular forms in Oberseminar Anlytic Number Theory and Automorphic Forms at University of Bonn
 9 Nov, 2023
- Converse theorems for automorphic forms in St John's College Mathematics Seminar at St John's College, University of Oxford (with Benjamin Bedert)

 5 Mar, 2020

Talks in learning seminars/study groups

 Hecke operators on p-adic modular forms in the IMPRS Seminar on modular forms at Max Planck Institute for Mathematics
 19 Nov, 2024

- Orthogonal groups and their symmetric spaces in the Study Group on Rigid Meromorphic Cocycles for Orthogonal Groups at Max Planck Institute for Mathematics 24 Oct, 2024
- Several talks in Exponential Sum Learning Seminar at Max Planck Institute for Mathematics

17 Nov, 15 Dec, 2023, and 12 Jan, 2024

• L-functions and/in Selberg Class in the IMPRS Seminar on L-functions at Max Planck Institute for Mathematics 24 Jan, 2023

Conferences, Workshops, Research Schools Attended

• New Advances in the Langlands Program: Geometry and Arithmetic at University of Oxford						
	30 Sep-4 Oct, 2024					
• School on Hodge Theory and Shimura Varieties at University of Duisburg-Essen	23-27 Sep, 2024					
• Conference on Arithmetic Geometry at Max Planck Institute for Mathematics	$2226~\mathrm{Jul},2024$					
- Modular Forms, L -functions, and Eigenvarieties at École Normale Supérieure	$1821~\mathrm{Jun},2024$					
• The 36th Automorphic Forms Workshop at Oklahoma State University 20–24 May, 20						
\bullet Shanks Conferences on L -functions and Automorphic Forms at Vanderbilt University						
• Periods in Physics, Number Theory and Algebraic Geometry at Hausdorff Research Institute for Mathematics 22–26 Apr, 2024						
$ullet$ International Conference on Modular Forms and $q ext{-}Series$ at University of Cologne	$1115~{\rm Mar},2024$					
• Modular Curves and their Arithmetic at University of Warwick	6-8 Dec, 2023					
• MM(P): Mahler Measures of Polynomials at Radboud University Nijmegen	24-27 Oct, 2023					
• Modular Forms and Arithmetic Geometry at TU Darmstadt	$1822 \ \mathrm{Sep}, \ 2023$					
• Young Number Theorists in Bonn at at Max Planck Institute for Mathematics	11-15 Sep, 2023					
• Arithmetic of automorphic forms at Laboratoire de Mathématiques d'Orsay 4–8 Sep, 2023						
• Early Number Theory Researchers Workshop 2023 at University of Bielefeld	$2325~{\rm Aug},~2023$					
• Summer School on the Arithmetic of the Langlands Program at University of Bonn	8-12 May, 2023					
$ \hbox{\bf Arithmetic Statistics, Automorphic Forms, and Ergodic Methods} \hbox{ at Max Planck Institute for Mathematics} \\ 24-28 \hbox{ Apr, } 2023 $						
• Special values of L-functions at Paderborn University	$1317~{\rm Mar},2023$					
• Conference on Motives and Automorphic Forms at Max Planck Institute for Mathematics	6–10 Mar, 2023					
• Number theory meets p -adic representations at University of Münster	13-17 Feb, 2023					
• Luxembourg Number Theory Day 2022 at University of Luxembourg	16 Dec, 2022					
• Early Number Theory Researchers Workshop 2022 at TU Darmstadt	26-28 Oct, 2022					

OTHER EXPERIENCES

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

LANGUAGES

Chinese (native), English (fluent)