

# Curriculum Vitae

Michael Cheng

Updated April 23, 2026

## PERSONAL INFORMATION

- Name: Hei Wang Cheng (Michael)
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- Address: Pembroke College, St. Aldates, Oxford, OX1 1DW, UK

## EDUCATION

### University of Oxford

Oct 2025 - Now

*DPhil in Mathematics*

- Advisor: James Newton

### Princeton University

Sep 2021 - May 2025

*Summa cum laude, AB in Mathematics with minor in Philosophy*

- Thesis title: *Non-split Extensions and Hecke L-values of Imaginary Quadratic Fields*
- Advisor: Christopher Skinner

## RESEARCH INTERESTS

- I am mainly interested in arithmetic and  $p$ -adic aspects of the Langland's program, in particular automorphy lifting theorems,  $p$ -adic automorphic forms and completed cohomology,  $p$ -adic representation theory and  $p$ -adic local Langlands
- My current research concerns "big R = big T" theorems for completed cohomology of locally symmetric spaces in positive defect
- I am also broadly interested in other areas of number theory and arithmetic geometry, such as special values of  $L$ -functions, arithmetic statistics,  $p$ -adic geometry,  $p$ -adic Hodge theory, etc.

## AWARDS & FUNDINGS

- Mathematical Institute Scholarship University of Oxford, 2025
- Middleton Miller '29 Prize for best independent work in mathematics Princeton University, 2025
- Andrew H. Brown Prize for outstanding juniors in mathematics Princeton University, 2024
- Shapiro Prize for Academic Excellence Princeton University, 2023
- HKSAF Scholarship HKSAF Scholarship Foundation, 2021
- Lyn-Edinger US Studies Scholarship American Chamber of Commerce, 2021

## TEACHING & ADMIN EXPERIENCE

- Teaching Assistant (Algebraic Number Theory) University of Oxford, 2026
- Tutor (Algebraic Number Theory) Stanford Program in Oxford, 2026
- Course Assistant (Multivariable Calculus and Linear Algebra) Princeton University, 2022 - 2024
- Academic Chair of Undergraduate Math Club Princeton University, 2023 - 2024