

Cheuk Fung (Joshua) Lau

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Education

University of Oxford <i>DPhil in Mathematics</i> Supervisor: James Maynard	United Kingdom 2025–Current
University of Oxford <i>MMath in Mathematics</i>	United Kingdom 2021–2025
Wa Ying College <i>Hong Kong Diploma of Secondary Education (HKDSE)</i>	Hong Kong 2015–2021

Preprints

- [1] Cheuk Fung Lau. Residue class patterns of consecutive primes, 2024.
- [2] Cheuk Fung Lau. Simultaneously small fractional parts of polynomials, 2024.
- [3] Cheuk Fung Lau. Smoothed shifted convolutions of generalised divisor functions, 2025.

Funding, Scholarships and Awards

Finalist's Scholarship Award <i>University College, Oxford</i>	United Kingdom July 2025
Oxford-Croucher Scholarship <i>University of Oxford & Croucher Foundation</i>	United Kingdom & Hong Kong 2025–2028
Gibbs Prize for Best Mathematical Dissertation <i>Mathematical Institute, Oxford</i>	United Kingdom July 2025
Scholarship Award <i>University College, Oxford</i>	United Kingdom October 2024
Scholarship Award <i>University College, Oxford</i>	United Kingdom January 2024
Exhibition Award <i>University College, Oxford</i>	United Kingdom December 2022
Hong Kong Scholarship for Excellence Scheme <i>Education Bureau</i>	Hong Kong 2021–2025

Undergraduate Research Projects

Part C Dissertation <i>University of Oxford</i> Title: Applications of Automorphic Forms in Analytic Number Theory Supervisors: Jori Merikoski and Lasse Grimmelt	United Kingdom 2024–2025
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Summer Research*University of Oxford*

Title: Distribution of Prime Gaps

Supervisor: Jori Merikoski

United Kingdom*Summer 2024***Part B Extended Essay***University of Oxford*

Title: Equidistribution Estimates and Fractional Parts of Polynomials

Supervisor: James Maynard

United Kingdom*2023–2024***Summer Project***University of Oxford*

Title: Geometric Methods for Hyperbolic PDEs

Supervisor: Qian Wang

United Kingdom*Summer 2023***Teaching and Mentorship**

Teaching Assistant*Chinese University of Hong Kong*

Course: Number Theory and Cryptography (EPYMT)

Hong Kong*August 2023, 2024***Mathematical Olympiad Instructor***Wa Ying College***Hong Kong***September 2022***Student Mentor***Access Abroad***Hong Kong***2022–2023*