# YIFU ZHANG

**Address:** University College, University of Oxford, OX1 4BH, United Kingdom.

**Email:** yifu.zhang@univ.ox.ac.uk  **Mobile:** +44 7778826772

## EDUCATION

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|---|---|
| 2022 - Present | *Master of Mathematics (MMath), University of Oxford* |
| | First Class in all three years, Elected First Year Representative of Undergraduate Committee. |
| 2017 - 2022 | *International Baccalaureate Diploma, Keystone Academy, Beijing* |
| | IB Diploma graduated with 43/45, Awarded Keystone Scholarship, Covers full cost of high school and first year of undergraduate. |

## RESEARCH EXPERIENCES

**Oct 2024 - Present**    **Research Project in Approximation Theory**

· Developed an algorithm for function approximation under heteroskedastic noise, using Chebyshev interpolation.

· Improved time complexity and accuracy; results pending preprint and journal submission in July 2025

· Supervised by Prof. Yuji Nakatsukasa.

**Jul 2023 – Sept 2023**    **Research Project in Analytic Number Theory**

· Conducted study on "Anatomy of integers", generalized a lower bound in Eberhard, Green, Ford (2016) on permutations fixing sets of certain lengths.

· Supervised by Dr. Ofir Gorodetsky.

## INDUSTRY EXPERIENCE

**July - Sept 2023**    **Lenovo (Beijing) Ltd - Department of Vehicle Computing**

*CVIS (Cooperative Vehicle Infrastructure System) Engineer Intern*

· Researched on autonomous vehicle market and produced presentations for working groups.

· Developed (in Python) a novel game theory-based model, by analyzing dataset from real world traffic scenarios and AI-simulated data.

**Summer 2021, 2022**    **Teaching Assistant, APEX Summer Program, Number Theory and Advanced Mathematics Course**

Involved in syllabus design, daily teaching and preparation for this four-week summer program. Invited to return in 2022 due to popularity of the course.

## SKILLS

- Programming: Python, MATLAB.
- Language: English (Fluent), Mandarin (Native), French (B1 equivalent).