Yifu Zhang

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# education

| 2022 - Present | Master of Mathematics (MMath), University of Oxford  First Class in all three years, Elected First Year Representative of Undergraduate Committee. |
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| 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** |
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| * 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. |
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| 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). |
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