

## Education

MSci Mathematics, *University College London*

Sep 2022 – Jun 2026

- **Predicted classification:** First Class Honours — following achievement in years 1 and 2
- **Notable topics:** Measure Theory, Differential Forms and Manifolds, Metric and Topological Spaces, Galois' Theory

International Baccalaureate Diploma, *Dwight School London*

Sep 2020 – Jun 2022

- **43/45:** 7/7 — Mathematics AA HL, Physics HL, Economics HL, English A LL SL, French B SL; 6/7 — Philosophy SL (self-taught); 2/3 — TOK and Extended Essay
- **Gifted and Talented Programme member:** attended enrichment opportunities, mentored juniors

## Projects

University College London Year 2 Research Project — **Analysis**

May 2024 –

- Studied linear maps on normed spaces, researched so-called quasinormed spaces. Awarded, through a top-ranked presentation, participation in a UCL Main Campus poster exhibition. Poster now displayed in UCL Mathematics

University College London Year 1 Group Research Project

May 2023 – Jun 2023

- Explored some tiling puzzles through Graph Theory, presented results to peers and professors

Extended Essay on Mathematics Pedagogy

Sep 2021 – Dec 2021

- Examined the extent to which processes of mathematics are actually held within high school pedagogy

Problems in elementary combinatorics

Sep 2020 – Jul 2021

- Collected and developed some problems, suitable for exposition to high school students

## Work Experience

Hong Kong Applied Science and Technology Research Institute — **Intern**, *Hong Kong*

Jun 2024 – Aug 2024

- **Projects in healthcare AI:** used python to assist in creating synthetic training data for an object recognition model, collected and processed training data for a skeleton-based action recognition model, increasing accuracy by 10%

Xperitus Insurance Brokers — **Intern**, *Mumbai and London*

Aug 2023 – Oct 2023

- **Developed an understanding of insurance and reinsurance:** produced a report for the Mumbai company, identifying suitable potential partner brokers and syndicates in London

University College London — **Transition Mentor**, *London*

Sep 2023 – Dec 2023

- Mentored 9 incoming 1<sup>st</sup> year mathematics students, providing pastoral care and academic support

**Tutor**

Sep 2020 –

- Privately tutoring students in university, A-Level, IB, GCSE, and aged 10-14; volunteering time to guide differently abled or struggling students towards realising their potential

Kundakala C.I.C. — **Trustee**, *London*

Dec 2020 –

- Designing strategies for the delivery of skills, and employability services to ethnic minority women in the UK

## Activities

- **Languages:** Python, Lean,  $\text{\LaTeX}$ ; English; French (B2); Marathi and Hindi (conversational); Mandarin (beginner)
- **Former National Swimmer:** 2-time British National Finalist, Kenyan National Champion, England East Region Champion, 2-time England East Region Bronze Medallist, Hertfordshire County Champion
- **Interests:** guitars, cricket, Manchester United, Central Asian geography

References on request. Materials related to my research projects may be found on my website.