Xiaole Zou

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Education

Imperial College London, Mathematics MSci (G103)

Sep 2023 - Present

- Dean's List 2023/24
- Year 1 Total: 91.82 (See Grade Transcript)

Rugby School, Key Stage 4 and Sixth Form

Sep 2018 - Jun 2023

- Awarded Wocester Mathematics Prize (Best Mathematician in Year), Mathematics Prize (Four In A Row)
- Relavent A-Levels: Mathematics (A*), Further Maths (A*), Physics (A*)

Research Experience

Bertrand's Paradox [Tom Rocks Maths Essay Competition] (Shortlisted Essay)

Jul 2023

- Explaining Bertrand's Paradox in an article-like format.
- Entered into essay competition and became one of nineteen to be shortlisted and showcased online.
- "Clearly explains one of the most confusing paradoxes in mathematics, which requires great skill." comment by Dr. Tom Crawford, University of Oxford

From Gossip to Gospel [Individual Research Project] (90/100)

May 2024 - Jun 2024

- Employing an Ising-like model to predict the spread of rumours in a secondary school year group.
- Generated a pseudo-random network of students and applied Monte-Carlo simulations.

Does a Maths Person Really Exist? [Individual Report]

Oct 2022 - Dec 2022

- Investigating the existence of "Mathematical Talent" based on varying physical and mental factors.
- Compiled findings into a four page report for the academic journal of Rugby School.

Bitcoin Price Prediction using Deep Learning [Group Research Project]

Jul 2021

- Using a combination of LSTM and regular nerual networks to predict the price of bitcoin.
- Was awarded "Super Brain" in recognition of contributions to the group project.

Other Experiences

Maths Made Simple [Personal Mathematics Blog]

Jul 2024 - Present

- Publishing bi-weekly articles on varying topics in mathematics on WeChat.
- Example article: A Brief History of 0 (Also published in Felix Imperial Newspaper)

Ritangle Team Maths Challenge [Team Member]

Sep 2022 - Dec 2022

• Working as a team to solve fun mathematical problems of varying difficulty.

Hall Society [President]

Sep 2022 - Mar 2023

• Organizing extracurricular talks for student and staff. Gave the first talk on complex numbers.

Honours and Awards

•	Unique Winner of	f David Greg	ory Prize (L	oyalty and	Concern in Scl	nool Community)

Jun 2023

• Unique Winner of Whitelaw Prize (Recognition for Contributions In House)

Jun 2023

• UKMT SMC Gold (Best in Year)

Nov 2021

Skills, Certifications and Others

Languages: English (IELTS 8.5), Mandarin (Native Speaker)

Interests: Football (IC Chinese Society Football Club), Rubik's Cube (SSZ Certified Officer)

Activities: Volunteering (35km walk in Tianjin for Charity, aiding students with visual impairment)

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