

## OVERVIEW

- 4<sup>th</sup> year Maths student due to complete a masters at Warwick in June 2024. I have a passion for pure maths, in particular Typology and Algebra, achieving **85%** in my 3rd year (which would have put me **top 10** had I not choose to stay on for a masters). I have demonstrated excellent Programming skills, averaging **95%+** in all my Programming modules. In addition I am a team player and strong communicator, having represented Warwick University at squash and part of the University TWP (Team Warwick Performance) Program.

## EDUCATION

## University of Warwick

Coventry, UK

*Bachelor of Science, Mathematics**Oct 2020 – Jun 2023*

- **Year 1 - 3: First**, averaging over **80%** in all modules.
- **Pure Maths modules:** Scoring **97%** in Groups and Representations, **91%** Algebra II: Groups and Rings **90%** in Linear Algebra & Introduction to Abstract algebra and **89%** in Algebraic Number Theory.
- **Programming modules:** **99%** in Differential Equations: Modelling and Numerics (**Python**), **98%** in both Programming for Scientists (**Java**) and Computational Physics (**Python**) , **96%** in Scientific Computing (**C**) and **90%** in Mathematics by Computer (**Python**)
- **Key interests for third year:** Complex Analysis, Linear Algebra, Multivariable Calculus, Topologies, Algebraic Topologies, Algebraic Number Theory, Machine Learning and Data Analytics.

## Claremont Fan Court School and earlier Achievements

Esher, UK

*Sixth Form, Primary and Secondary Education**Oct 2020 – Jun 2020*

- **A Levels:** Mathematics (**A\***), Further Mathematics (**A\***), Physics (**A\***).
- **GCSE's:** Independently learnt the maths GCSE syllabus and sat the exam in **Year 9 (2 years early)**, with a result of **94%** and an **A\***
- **Sports at School:** Awarded a sports scholarship, represented the school for Rugby, Hockey (Captain) and Athletics (100m).

## WORK EXPERIENCE

## University Research Support Scheme

University of Warwick

*Research Grant**July - October*

- Designed an educational website to show concepts of fundamental domains and hyperbolic polygons, aiming to enhance intuition for learners.
- Navigated the challenges of learning and applying **JavaScript**, **React** and front-end development for the first time, demonstrating adaptability and commitment to the project.

## Graduate Teaching Assistance

University of Warwick

*1st Year Supervisor**October - Present*

- Led foundational mathematics courses for first-year students, covering key areas including calculus, analysis, and algebra.
- Acted as the main academic liaison and mentor for students, ensuring clear communication and support throughout their initial university journey.

## Post Quantum

London

*Work Experience**June 2019*

- Developed an understanding of cryptography and the future direction of Encryption given the advancement of quantum computers.

## Garson's Farm

Esher

*Sales Assistance**Dec 2018 - Apr 2019*

- Boosted sales through my engagement with costumers on the shop floor.
- Coordinated with my team to ensure key tasks like stock replenishment were executed efficiently.

## Squash Coach

Surrey &amp; Warwick

*Level 1 Qualified**Dec 2016 - Present*

- Led coaching for both solo and group sessions at Sandown sports and University of Warwick and previous assistant-coach for the Surrey County Squad.
- Coached social players up to advanced top-ranking players.

## INTERESTS

- **Squash:** Ranked **top 60** in the UK as a junior. Represented Surrey at U19, past member of the Southeast England regional squad. Currently play for Warwick University and a member of the Warwick performance sports programme. Played **Division 1** for BUCS (University Sports).
- Enthusiastic sports player beyond just squash, enjoying Powerlifting and Paddle Tennis.
- Problem solving and solution optimisation, demonstrated by a previous obsession with Rubik's cubes (once being consistently sub 25 seconds).

## SKILLS SUMMARY

- Python, C, Java,  $\text{\LaTeX}$ , Excel, JupyterLabs, Obsidain
- Being able to type maths assignments at full speed into Latex by taking advantage of self-coded snippets.