George Bateman

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OVERVIEW

- $4^{t}h$ 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 & 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, LaTeX, Excel, JypterLabs, Obsidain
- Being able to type maths assignments at full speed into Latex by taking advantage of self-coded snippets.