

Reuben Omolu

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EDUCATION

University College London (UCL), Faculty of Mathematical and Physical Sciences Sept 2016 – June 2020 (*Expected*)

MSci Mathematics with a Study Abroad Year

Degree Class: 1st Class Honours (Expected), 1st Year Mark: 86%, 2nd Year Mark 85%.

University of Toronto, Faculty of Arts and Sciences.

Sept 2018 – June 2019

International Study Abroad Program, Study Abroad Year Mark: 83%.

Richard Hale School, Hertford.

Sept 2009 – July 2016

*A-Level (2014-2016): A*A*AA (Mathematics, Further Mathematics, Physics, Chemistry).*

GCSE Level (2013-2014): 11A's, 2A's.*

KEY MODULES

Year 3: Polynomial Equations and Fields; Groups, Rings and Fields; Linear Partial Differential Equations, Topology.

Year 4 (currently taking): Lie Algebras and Lie Groups; Algebraic Geometry; Algebraic Number Theory; Elliptic Curves, Representation Theory.

RESEARCH EXPERIENCE

Final Year Research Project (The inverse Galois problem for p-adic fields)

2019 - Present

Supervised by Dr Christopher Birkbeck. Project Objectives: Given a p-adic field k , there are only finitely many algebraic extensions of given degree, up to isomorphism. This means the number of Galois extensions of k that has a corresponding Galois Group G is finite. My project aims to enumerate these extensions explicitly.

Summer Research Project (Penrose Tiling)

2018

Supervised by Prof. Michael Singer. Project Objectives: To showcase a 10-minute presentation, demonstrating the mechanisms behind why a Penrose tiling works and also its appearances in nature. We reconstructed the formal construction of the Penrose tiling and went on to discover related tilings using subsets of the Penrose.

EXPERIENCE

Student Ambassador at University College London

2016 - Present

- Responsible for leading groups of students that meet the Access and Widening Participation scheme including those from under-represented groups at university.
- Effectively dealt with any behavioural and pastoral concerns shown by students.

Teaching Assistant MAT186 (Calculus I) at University of Toronto

2018 - 2019

- Responsible for teaching weekly tutorials, setting weekly problem sets and marking homework and project tasks.
- Learnt the structure and organisation of teaching within the Mathematics/Engineering department.
- Helped students who had previously failed the module to pass and continue into their next year of study.

Mentor at Debate Mate, London

2017-2018

- Supported young people from underprivileged backgrounds by teaching debating and communication skills whilst simultaneously demonstrating my responsibility, reliability and punctuality.
- Trained new graduates at the Deloitte Academy on how to effectively communicate and its fundamental importance in a working environment.

AWARDS AND ACHIEVEMENTS

- **Awards:** House Captain; Mathematics Prize & Chemistry Prize (for highest marks in my college),
- **Societies:** UCL Economics and Finance, UCL Mathematics Society, UCL Basketball 1st Team, UCL ACS.
- **Sporting Excellence:** Represented the County and Region in Decathlon and Discus for South England at the English Schools Athletics where I attained a bronze medal. Senior Colours Award (Basketball & Athletics).
- **Production:** Performed in over 12 drama productions and uncountable music performances.
- **Public Speaking:** I had the pleasure to deliver speeches to over 400 people about the Lessons from Auschwitz project of which I recalled and reflected upon my experiences on the government-sponsored trip to Oświęcim.

KEY SOFTWARE AND LANGUAGE SKILLS

- **Advanced:** Logic Pro X, Final Cut X, Microsoft Office. **Intermediate:** Python, French. **Beginner:** R, German.