

CV - Luke Elliott

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Date This document was last updated on August 2nd 2021

PhD

ArXiv Papers

Paper	Coauthors
Automatic continuity, unique Polish topologies, and Zariski topologies on monoids and clones	J. Jonušas, Z. Mesyan, J. D. Mitchell, M. Morayne, Y. Péresse
Sufficient conditions for a group of homeomorphisms of the Cantor set to be two-generated	Collin Bleak, James Hyde
A Description of $\text{Aut}(dV_n)$ and $\text{Out}(dV_n)$ Using Transducers	None

Education

St Andrews University – MMath (Hons) Mathematics (Fast Track)

Year	Modules	Average Grade
2017/18	Topics in Groups, Independent Study (Algebraic Topology), Real and Abstract Analysis, Semigroups, Dissertation (Infinite Symmetric Groups)	19.1
2016/17	Graph Theory, Measure and Ergodic Theory, Real Analysis, Advanced Symbolic Computation, Galois Theory, Groups, Topics in Geometry and Analysis	19.3
2015/16	Analysis, Complex Analysis, Differential Equations, Finite Mathematics, Linear Mathematics 2, Algebra: Rings and Fields, Mathematical Programming, Number Theory, Statistical Inference, Topology	17.5
2014/15	Mathematics, Combinatorics and Probability, Multivariate Calculus, Topics in Mathematics: Problem-solving techniques, Abstract Algebra, Linear Mathematics, Mathematical Modelling, Vector Calculus	18.5

Stewart's Melville College, Edinburgh

2013/14	Advanced Higher: Pure Mathematics (A), Applied Mathematics (A), Physics (A)
2012/13	Higher: Mathematics (A), Physics (A), Computing (A), Chemistry (A), English (D)

Awards

St Andrews Dean's list 2015, 2016, 2017, 2018
Duke of Edinburgh Bronze and Silver awards,
Scottish Mathematical Council "Maths Challenge" gold awards

Technical Skills

Programming GAP, Python, LaTeX

Work Experience

- 2018-present PhD Student at St Andrews (includes tutoring)
- 2017 Laidlaw Programme, Undergraduate Research and Leadership Programme: Writing algorithms concerning commutative semigroups supervised by Dr James D Mitchell.
- 2016 Charity Shop Assistant (Shelter)
- 2013 Heriot Watt University photonics department work experience: minimising transmission loss of lasers through various mediums using precise equipment set-ups.

Positions of Responsibility

- 2016-present Treasurer of St Andrew's Anime Society

Interests & Activities

Maths, Anime, Japanese, Video/Board games.

Referees

Dr Collin Bleak, My St Andrew's Supervisor, E-mail: cb211@st-andrews.ac.uk
Dr James D Mitchell, My St Andrew's Supervisor, E-mail: jdm3@st-andrews.ac.uk