

Benjamin Ellis-Bloor

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EDUCATION

Australian National University

Canberra, Australia

Bachelor of Philosophy (Honours) - Science

2017 – 2020

- GPA: 7.0/7.0
- ANU National Merit Scholarship
- Honours in pure mathematics, with thesis titled *The Klein four homotopy Mackey functor structure of $H\mathbf{F}_2$* supervised by Dr. Vignér Angeltveit

Moriah College

Sydney, Australia

Higher School Certificate

2012 – 2016

- Achieved an ATAR of 99.70, therefore placing in the top 0.3% of graduating students in New South Wales
- Prizes for first in Mathematics Extension 2, Mathematics Extension 1, Physics and Chemistry
- UNSW School of Mathematics and Statistics Prize for Best Student in Mathematics

ACADEMIC AWARDS

Chancellor's Letter of Commendation

2019

- A letter of commendation from the Chancellor, the Honourable Julie Bishop, of the Australian National University awarded for achieving a Grade Point Average of 7.0 over the academic year of 2019

Dean's Science Education Commendation

Semester 2, 2019

- Awarded for achieving a High Distinction at the level of 90 percent or greater in all courses undertaken in Semester 2 of 2019

Hanna Neumann Prize for Second Year Mathematics

2018

- Awarded for achieving the highest aggregate score in 12 units of Honours Pathway Mathematics courses or Advanced Studies Mathematics Courses at the 2000 level or above in 2018

Chancellor's Letter of Commendation

2018

- A letter of commendation from the Chancellor, Professor the Honourable Gareth Evans AC QC, of the Australian National University awarded for achieving a Grade Point Average of 7.0 over the academic year of 2018

Dean's Science Education Commendation

Semester 1, 2018

- Awarded for achieving a High Distinction at the level of 90 percent or greater in all courses undertaken in Semester 1 of 2018

Chancellor's Letter of Commendation

2017

- A letter of commendation from the Chancellor, Professor the Honourable Gareth Evans AC QC, of the Australian National University awarded for achieving a Grade Point Average of 7.0 over the academic year of 2017

Bruce Hall Academic Award

2017-2019

- A prize awarded each semester to a top student at Bruce Hall from each academic college at the Australian National University
- I received this award four times, namely for Semester 1 2017, Semester 2 2017, Semester 1 2018 and Semester 2 2019

Premier's Award for All-round Excellence in the NSW Higher School Certificate

2016

- Awarded to students in NSW who achieved a Band 6 (an overall mark of 90 or above) in 10 or more units of study in the 2016 Higher School Certificate

ACADEMIC EXPERIENCE

UNSW Science Vacation Research Scholarship

Summer, 2018-2019

University of New South Wales

- Undertook a summer research project in mathematics under the supervision of Dr. Mircea Voineagu at the University of New South Wales, in the area of equivariant homotopy theory

Selected Advanced Courses

2018-2020

Australian National University

- | | |
|---|-------------------------|
| • Algebraic Number Theory | <i>Semester 2, 2018</i> |
| • Conformal Field Theory and Vertex Operator Algebras | <i>Semester 1, 2019</i> |
| • Equivariant Stable Homotopy Theory | <i>Semester 1, 2019</i> |
| • Operator Algebras | <i>Semester 2, 2019</i> |
| • Yang-Mills Theory on Riemann Surfaces | <i>Semester 2, 2019</i> |
| • Classical Algebraic Geometry | <i>Semester 2, 2019</i> |
| • Vector Bundles and K-theory | <i>Semester 1, 2020</i> |
| • Perverse Sheaves and Deligne-Lusztig Theory | <i>Semester 1, 2020</i> |
| • Gauge Theory | <i>Semester 1, 2020</i> |
| • Foundations of Algebraic Geometry | <i>Semester 2, 2020</i> |

TEACHING EXPERIENCE

Casual Sessional Academic

2019-2020

Australian National University

- Demonstrator for MATH1005/6005 (Discrete Mathematical Models) in Semester 1, 2019 and Semester 1, 2020
- Demonstrator for MATH1113 (Mathematical Foundations for Actuarial Studies) in Semester 2, 2020
- Demonstrator for the intensive summer courses Mathematical Analysis 1 and Mathematical Analysis 2 run by the Australian National University for students at Shandong University in November, 2020

Each of these roles involve delivering regular two-hour workshops, as well as marking assignments and/or examinations.

OTHER

- Bruce Hall Academic Mentor (2018)
- Assistant Principal Cellist in the NSW Youth Orchestra (2016), and Cellist in the North Sydney Youth Symphony (2014-2015) and the SBS Radio and Television Youth Orchestra (2013)
- Duke of Edinburgh Award - Bronze (2015)
- Associate Diploma in Music, Australia (AMusA) in Piano, with Distinction (2014)