

Emlyn Graham

Curriculum Vitae

PERSONAL DETAILS

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EDUCATION

Bachelor of Science (Honours) (Physics) 2019

Australian National University - Department of Nuclear Physics

- H1 (Honours First Class)
- Thesis: Time dependent coupled channels approaches to nuclear collisions

Bachelor of Mathematical Sciences & Bachelor of Science 2014-2018

Australian National University

- GPA: 6.34/7.0
- Majors: Theoretical Physics, Mathematics (High Distinction average)
- Minor: Philosophy and Science
- Technical University of Denmark Exchange, Yonsei University Summer term
- Internship - Australian Academy of Science - STEM Education policy in Australia

WORK EXPERIENCE

Graduate 2020-present

Commonwealth Department of Industry, Science, Energy and Resources

12-month development program comprised of two 6-month rotations within the department, as well as a major project and extensive facilitated training. In my first rotation with Science Agencies - ANSTO and AIMS Section, I am contributing to policy development related to the business of the Australian Nuclear Science and Technology Organisation (ANSTO), including nuclear waste management and nuclear medicine supply. I was temporarily seconded to the APS2000 taskforce in Services Australia to assist with the COVID-19 response.

Casual/Sessional Academic 2019

The Australian National University

Demonstrator for the mathematics courses MATH1013 - Mathematics and Applications 1 and MATH1014 - Mathematics and Applications 2. I guided students through problems in calculus and linear algebra in two workshops per week. I also marked assignments and exams, as well as set and marked in-class quizzes for the 20-30 students per workshop.

Technical Consultant 2018-2019

Widget Brain

I contributed in a technical capacity to projects, including leading data investigation and machine learning pieces, and constructing and testing optimisation algorithms in Python.

Student Ambassador

2018-2019

The Australian National University

I was a student representative for the ANU Central marketing team, leading tours of the university and supporting marketing functions at events such as Open Day.

Science Ambassador

2016-2019

The Australian National University

I acted as a student representative for the Joint Colleges of Science at a large variety of projects and events, including outreach activities and open days. I also supported the marketing team with their activities including calls, and data entry and analysis.

Summer Intern

2017-2018

Quantium

I worked with the Quantium Health Outcomes team on analytics for a federal government department. In this work, I analysed health and housing data in SQL and Excel, delivering data models (predominantly GBMs) made in R. I communicated my findings to government clients through clear visualisation in PowerPoint presentations.

Private Tutor

2015-2017

Self-employed

I tutored students in their chosen areas of study including Mathematics, Science and ESL.

SCHOLARSHIPS & GRANTS

PBSA ANU Partnership - Spotless Scholarship

2019

Spotless

Rural & Regional Enterprise Scholar

2019

Department of Education and Training

Mitsui Educational Foundation Tour of Japan

2015

Mitsui & Co.

Chosen as the Australian National University representative on the 2015 Mitsui Tour of Japan. The three week tour involved meetings with key contributors to Australia-Japan relations, including the Australian Ambassador, Consulate Generals and the CEO of Mitsui & Co.

ANU Travel Grant

2014-2015

Australian National University

SKILLS

Software

PYTHON, R, C++, SQL SERVER, TERADATA, L^AT_EX
WOLFRAM MATHEMATICA, MICROSOFT OFFICE
OPEN OFFICE, GOOGLE DOCS

Certificates

Mental Health First Aid

REFERENCES

Available upon request