

# Alice Fielding-Smith

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My name is Alice, I'm a recent graduate of Macquarie University with a B Science in Biomolecular sciences and a minor in biology. I am about to start a Masters in Biostatistics at Macquarie with the aim of working in a research group and eventually a PhD. I'm currently looking for technical positions to enhance and maintain my laboratory skills as well as the research techniques that I have gained from my studies. I've got an interest in genomics, proteomics and informatics; I am comfortable with lab techniques for both. I'm currently volunteering as a lab assistant in the Nair lab under Julian May. I'm also a volunteer first responder with St John Ambulance as well as being involved with Guides and Scouts Australia.

## Experience

### **Volunteer Lab Assistant, Evolution, Genetics and genomics lab Nov 2014-Current**

Currently assisting PhD student and Masters of Research student with DNA & RNA extraction and analysis from insects, chemical inventory, general lab maintenance, running insect experiments and protocol optimisation.

Referee: Julian May Mail: [julian.may@mq.edu.au](mailto:julian.may@mq.edu.au)

### **Student Researcher, iGEM Competition, Boston MIT**

**Aug – Nov 2014**

The International Genetically Engineered Machine competition (iGEM) is the premiere undergraduate Synthetic Biology competition. Student teams are given a kit of biological parts at the beginning of the summer from the Registry of Standard Biological Parts. Working at their own schools over the summer, they use these parts and new parts of their own design to build biological systems and operate them in living cells. The Macquarie University 2014 team participated and earned a gold medal at the Boston Jamboree for their work on re-creating the chlorophyll biosynthesis pathway.

Referee: Dr Louise Brown Mail: [louise.brown@mq.edu.au](mailto:louise.brown@mq.edu.au)

### **Internship Cancer Bioinformatics, Garvan Institute of Medical Research**

**Jun-Aug 2014**

Interned in the Pancreatic cancer bioinformatics group under Dr Jianmin Wu. Worked with big data using the language R along with a focus on a holistic use of the '-omics' in cellular behaviour. Had own project with potential for further work and possible publication.

Referee: Dr Jianmin Wu Mail: [j.wu@garvan.org.au](mailto:j.wu@garvan.org.au)

### **Volunteer First Responder, St John Ambulance NSW, Macquarie University Division 2010-Present**

Under St John Ambulance NSW protocols I am a qualified first responder. Four years of in-field experience working at major festivals, sporting events and concerts. Assisted my Division with the organizing and running of health care at Conception day 2013 & 2014. Looking at becoming an accredited trainer in 2015.

Referee:

Alexander Cardenas (Divisional Superintendent 2010-2013) Email: [ACARDENAS@ambulance.nsw.gov.au](mailto:ACARDENAS@ambulance.nsw.gov.au)

Ph: +61 423 29 3582

Beau RavanGeekie (Divisional Nursing Officer) Email: [Beau.RavanGeekie@health.nsw.gov.au](mailto:Beau.RavanGeekie@health.nsw.gov.au)

Ph: +61 413 852 206

### **Student Admissions Assistant, Macquarie University**

**Dec 2011- Jan 2013**

Main role was data entry and management under AMIS system. I worked with new student enrolments via face-to-face sessions and on the phone to answer enrolment related questions. As well as the student enrolment I worked as part of a team re-admitting 2000 students to new curriculum and new courses manually.

Referee: Adrian Widjonarko Ph: +61 2 9850 6406

**Volunteer Lab Assistant, APAF Macquarie University**

**July 2012**

I assisted Honours and PhD students in a Colon cancer research group during my winter break. I worked under physical containment level 2 conditions with sampled human cell cultures, growing and harvesting cells, protein harvesting and analysis by gel electrophoresis, western blotting and spectral analysis using immunohistochemistry techniques.

Referee: Mark Baker Mail: [mark.baker@mq.edu.au](mailto:mark.baker@mq.edu.au)

**Science Mentor at Mentors@Macquarie**

**Nov 2011- Nov 2013**

In 2012, as a Science Mentor assisted with the running of Academic Orientation and the supporting of new students via face-to-face interactions and weekly support emails for both first and mid-year intake. In 2013 I was a Faculty Team Leader for Science, Designed and ran mentor training as well as Academic Orientation for 2013 for both beginning and mid-year intake.

Referee: Misha Monstead Mail: [misha.monsted@mq.edu.au](mailto:misha.monsted@mq.edu.au)

**Casual Library Shelver, Ryde Library Services**

**2009 – 2011**

As a Top Ryde City employee I was required to be of assistance for all visitors to the libraries; this included knowledge of the Dewey decimal system as well as other library services. We were required to be prepared to work in multiple branches of Ryde Libraries to cover other employee's shifts if need be at short notice. Within a single shift we had expected volumes of books that were to be processed along with general tidying of the library collections.

Referee: Ryde Library Service Email: [rydelibrary@ryde.nsw.gov.au](mailto:rydelibrary@ryde.nsw.gov.au)

**Education**

**Macquarie University**

**2015 – 2017 (estimate)**

Master of Biostatistics

**Macquarie University**

**GPA 2.5 (4 point scale)**

**2011-2014**

*Bachelor of Science* **Major:** Biomolecular Science

**Studied:** Statistics, Biostatistics & Experimental Design, Mathematics, Organic Chemistry, Biological sciences, Genetics, Microbiology, Biotechnology, Neuroethology, Molecular Biology, Genomics & Proteomics.

**Skills:** DNA & RNA extraction & analysis, Gel Electrophoresis, PCR & RT-PCR, Experimental Design, Spectroscopy (MS, IR, NMR, Maldi TOF), Immunohistochemistry, Aseptic techniques, Plate reading, Plate Cultures, Genome sequencing, metagenomics, microarray analysis, bioinformatics, confocal microscopy, glycolysation, Western Blotting, microbial ecology, SDS-PAGE analysis, Minitab analysis, R and SAS programming, Insect husbandry, Protocol Optimisation, Chemical inventory & disposal, General lab maintenance.

**Gained:** St John Ambulance First Responder (Cert II Health Care); RYLA 2012; Student Leadership Scholarship (2011)

## **Riverside Girls High**

**2009-2010**

Completed HSC, ATAR 86.90

Gained: HSC; Queens Guide Award, Girl Guides Australia; City of Ryde Young Volunteer of the Year; Long Tan Leadership award, ADF (2008)

### **Qualifications & Awards**

- Under St John Ambulance NSW protocols qualified as a first responder (Certificate II Health Care) and looking at becoming an accredited trainer in 2015.
- *Queens Guide Award*: The peak achievement award for youth members of Girl Guides Australia and provides opportunities or extraordinary personal development and self-awareness. All parts of the Queens Guide Award [Gold Endeavour, Interest and Focus] are peer-assessed
- *Long Tan Leadership Award*: The ADF Long Tan Youth Leadership and Teamwork Awards recognise students who demonstrate leadership and teamwork within both the school and the broader community and who display strong values, such as doing one's best, respect for others and "mateship", that are integral to Australian society.