

Andrew John Tulloch

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EDUCATION

2013-2014 Trinity College, University of Cambridge — Master of Mathematical Statistics (*Cambridge, UK*)

- Cambridge Commonwealth scholarship holder, deferring PhD in Statistics at UC Berkeley.
- *Coursework includes:* Statistical Theory, Bayesian Statistics, Time Series Analysis.

2008-2011 University of Sydney — Bachelor of Science (First Class Honours and University Medal) in Mathematics (*Sydney, Australia*)

- GPA — 93/100 (4.0/4), Honours GPA — 98/100, GRE — 800Q/700V.
- *Thesis:* “[Intensity Models for Credit Risk](#)” (Supervised by Prof. Marek Rutkowski).
- *Coursework includes:* Artificial Intelligence, Algorithmic Game Theory, Stochastic Processes.

EXPERIENCE

2012-2013 Facebook — Machine Learning Engineer, Ads Optimisation (*San Francisco, CA*)

- Technical leader on Ads Optimisation, successfully envisioning and implementing multiple projects with cumulative impacts of **several hundred million dollars of incremental revenue**.
- Performance reviews of ‘**redefined expectations**’, reserved for the top 2-3% of engineers.
- Selected projects included applying techniques in convex optimisation and stochastic optimal control theory to optimise system utilisation on a per-query basis, and developing a state of the art distributed machine learning framework.

2010-2011 Goldman Sachs — Strategist (Intern/Part Time), FICC/Algorithmic Trading (*Sydney, Australia*)

- Developed machine learning models to improve trading algorithms for the optimal execution of market orders - applying and extending research in several areas of market microstructure.

SELECTED AWARDS

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| 2011 | Awarded the University Medal and the Joye Prize for the highest final year Honours mark (both research and coursework) in the Faculty of Science at the University of Sydney. |
| 2011 | Awarded the Science Achievement prize for the highest undergraduate GPA over three years in the Faculty of Science, out of over 6,000 students. |
| 2007 | Represented Australia at the 39th International Chemistry Olympiad in Moscow. Awarded a silver medal , ranking 42nd in the world and first in the Southern hemisphere. |

SKILLS AND INTERESTS

Research: Distributed machine learning, statistical learning theory, deep learning and computer vision, convex optimisation.

Technical: Strong knowledge of C, C++, Python, R, Haskell, Go, MATLAB, Hive/Hadoop, LATEX, etc.

OTHER ACHIEVEMENTS

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| 2011 | Awarded the Faculty of Science Dean’s Honour List Prize for achieving the highest GPA in third year science. |
| 2011 | Awarded the K.E. Bullen Scholarship for ranking first in Applied Mathematics. |
| 2011 | Awarded the St Andrew’s College Medal and Bill Caldwell Scholarship for the highest undergraduate GPA and academic, sporting, cultural, and leadership pursuits. |
| 2009 | Awarded the Barker Scholarship for ranking first out of over 500 students in first year mathematics. |
| 2007 | Ranked 2nd out of over 10,000 students in Western Australia in TEE (high school final examinations), placing 1st in Physics, and achieving a 99.95 TER. |