

# Andrew John Tulloch

Trinity College, Cambridge, UK CB2 1TQ  
M +44 754 784 1424 • E [andrew@tullo.ch](mailto:andrew@tullo.ch) • W [tullo.ch](http://tullo.ch)

## EDUCATION

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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

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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

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**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.