

# Andrew John Tulloch

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## EDUCATION

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- 2008-2011 University of Sydney — Bachelor of Science (First Class Honours and University Medal) in Mathematics** (*Sydney, Australia*)
- GPA — 93/100 (4.0/4), GMAT — 770, GRE — 800Q/700V.
  - Awarded the University Medal for the **highest** Honours mark in the Faculty of Science.
  - Awarded the Science Achievement prize for the **highest** undergraduate GPA over three years in the Faculty of Science (out of over 6,000 students).
  - Thesis: “[Intensity Models for Credit Risk](#)” (Supervised by Prof. Marek Rutkowski).
  - Coursework includes: Artificial Intelligence, Algorithms and Complexity, Algorithmic Game Theory, Stochastic Processes and Advanced Time Series Analysis.

**2000-2007 Christ Church Grammar School** (*Perth, Australia*) — 99.95 TER.

## EXPERIENCE

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- 2011 Goldman Sachs — Analyst (Part Time), Algorithmic Trading** (*Sydney, Australia*) (*Current*)
- Worked as a strategist in the Algorithmic Trading team, focusing on Australian equities.
  - Used statistical and machine-learning methods to develop and enhance trading algorithms for the optimal execution of client orders.
  - Implemented algorithms in Slang, a proprietary object-oriented language.
- 2010-2011 Goldman Sachs — Summer Analyst, FICC** (*Sydney, Australia*)
- Worked on the Macroeconomic Structuring desk as a strategist.
  - Developed statistical and econometric models to devise optimal FX hedging strategies for leading Australian companies.
- 2009-2010 Hope for Children — Overseas Volunteer** (*Addis Ababa, Ethiopia*)
- Volunteered in Ethiopia over summer with the international NGO Hope for Children.
  - Developed the infrastructure and administration of a kindergarten for underprivileged children.
  - Collected data and created profiles of the children for sponsorship purposes.
- 2009-2011 St Andrew’s College — Mathematics and Science Tutor** (*Sydney, Australia*)
- Tutoring in mathematics, chemistry and physics, in both paid and unpaid capacities.

## TECHNICAL SKILLS

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- Programming:** Strong knowledge of Python, SecDB/Slang, MATLAB, R, and LaTeX.  
Basic knowledge of C++, Hadoop, XHTML, Javascript, and SQL.
- Interests:** Auction theory, Big Data statistical techniques, machine learning, and typography.

## ACHIEVEMENTS & SCHOLARSHIPS

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- 2011** Awarded the University Medal for the **highest** Honours mark in the Faculty of Science.
- 2011** Awarded the Science Achievement prize for the **highest** undergraduate GPA over three years in the Faculty of Science.
- 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 for the **highest** undergraduate GPA at St Andrew’s College.

- 2010** Awarded the St Andrew's College Bill Caldwell Scholarship for excellence in academic, sporting, cultural, and leadership pursuits.
- 2010** Awarded the St Andrew's College Gold, Silver and Bronze Thistles for academic performance.
- 2009** Awarded the Barker Scholarship for ranking **first** out of over 500 students in first year mathematics.
- 2009-2011** Placed on the University of Sydney Dean's List of Excellence in Academic Performance.
- 2008-2011** Awarded the University of Sydney Outstanding Achievement and National scholarships.
- 2007** Represented Australia at the 39th International Chemistry Olympiad in Moscow. Awarded a silver medal and ranked **42nd** in the world.
- 2007** Ranked **2nd** in Western Australia in TEE, placing **1st** in Physics, and achieving a 99.95 TER.
- 2007** Awarded the Christ Church Grammar School C.A.S.A award for excellence in academic, sporting, cultural, and leadership pursuits.

## LEADERSHIP

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- 2009-2010** Elected Honorary Treasurer of the St Andrew's College Students' Club. Chosen as one of three members of the Student Executive in a key leadership role, managing over 250 undergraduate students.
- 2007** Vice-Captain of Christ Church Grammar School.
- 2007** School Prefect and House Prefect of Christ Church Grammar School.
- 2007** Captain of Debating and State Grand Finalists at Christ Church Grammar School
- 2007** Captain of Mock Trials and State Grand Final winners at Christ Church Grammar School.

## SPORTING & EXTRACURRICULAR ACTIVITIES

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- 2010** Published author in *The Sydney Globalist*, an international affairs magazine.
- 2008-2010** Represented St Andrew's College in tennis, basketball and soccer.
- 2009-2010** Coach of St Andrew's College women's hockey team.
- 2008-2010** Represented Sydney University in hockey and AFL at the Australian University Games in Melbourne and Perth.
- 2006-2007** Vice-captain of 1st XI hockey team at Christ Church Grammar School.
- 2006-2007** Player in the 1st XI cricket team at Christ Church Grammar School.
- 2004-2007** Middle-distance (400m and 800m) running champion at Christ Church Grammar School.