Isaac Tan Wei-En

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## Education

* + 2015-2018 (current): University of Leeds
* **BSc Meteorology and Climate Science** (1st year Undergraduate)
  + - Semester 1 subjects include:
* SOEE 1301: Intermediate Mathematics for Environmental and Geophysical Scientists – 97/100
* SOEE 1560: Introductory Earth Sciences – 84/100
* SOEE 1110: Sustainable Development: Concepts and Case Studies – 79/100
* SOEE 1034: Natural Hazards – 76/100
* SOEE 1432: Issues in Water Pollution Management – 72/100
* 2013-2014: Australian International School Singapore
* **Australian NSW Higher School Certificate (HSC)**
  + - Subjects include:
* English (Advanced) – 86/100
* Mathematics – 95/100
* Mathematics Extension 1 – 46/50
* Physics – 90/100
* Chemistry – 89/100
  + - Top 2% of New South Wales with an Australian Tertiary Admission Rank (ATAR) of 98.10.
* 2012: Australian International School Singapore
* **IB Middle Years Programme (MYP)**
  + - Subjects include (Grade 1 (very poor) to Grade 7 (excellent)):
* Language A (English) – 6
* Language B (Standard French) – 6
* Extended Mathematics – 7
* Science – 7
* Geography – 7
* Computing studies – 7
* MYP Personal Project – 7

## Work Summary

**Related Work Experience**

* November 2012: Job attachment in Year 10 to a meteorological company, Fugro Geos (Singapore). Employer: Michael Hong Wang. Throughout my work experience, I obtained valuable skills in using spreadsheets to conduct statistical analysis on large meteorological data sets on tropical cyclones at the Great Barrier Reef in Australia. I also wrote a formal report to investigate their impacts. I demonstrated the ability to work independently in an office environment.

**Employment**

* March-September 2015: Self-employed part-time 1-to-1 tutoring for mathematics and chemistry to high-school students.

**Volunteer work and community service**

* March 2015: Volunteer work – building the foundations of a church on a remote Indonesian island organised by International Baptist Church Singapore.
* July: 2015: Volunteer work – leading and teaching military school students in an English programme in Kaohsiung, Taiwan.

## Skills Profile

**Leadership and initiative**

* + - My role as Course Representative enabled me to develop leadership and initiative skills through collecting student feedback to present in Student Staff Forum meetings on behalf of my course mates.
    - As Library Representative, I represent my department on ways to improve the university library, whilst learning more about upcoming projects to be undertaken within the library.

**Teamwork**

* + - My team project in the Issues in Water Pollution Management module and my recent fieldtrip to Blencathra received positive feedback for effective team dynamics. For example, I ensured that accurate and reliable data was obtained for tree and river sampling, and that laboratory work was of high quality regarding the fieldwork.

**Analysing and problem solving**

* + - Regarding the individual report component from my fieldtrip to Blencathra, I demonstrated the ability to effectively analyse large amounts of data using statistical methods, and to make critical scientific analyses. This enabled me to earn a First Class mark for the overall laboratory report.

**IT experience and competence**

* + - Competence in Visual Basic programming – I created a multiple-choice quiz, as well as a virtual vending machine based on an algorithm as part of my Software Design and Development projects.

**Communication**

* + - Through leadership roles in the University of Leeds, I effectively communicated feedback in Student Staff Forum and Library Rep meetings, and also kept my peers updated about the issues and actions taken.
    - I achieved a First Class mark for my 10-minute individual presentation on “Spatial Distribution of Rainfall in Singapore”, demonstrating high competence in academic oral presentations.
    - I achieved a similar mark for my Issues in Water Pollution Management report, also demonstrating high competence in written communication.

**Recent achievements**

* + - I achieved Dux of the Year for school-based examinations in 2013 and 2014, and Principal’s Awards for academic achievement. This includes achieving first place in Physics, Chemistry, Mathematics, Music, and Music Extension.
    - I was the only student selected as soloist to perform two piano concertos with the school orchestra at the school’s Ensemble Evening.
    - I achieved distinctions for the Australian Mathematics Competition (AMC) held at a national level from 2012 to 2014.
    - I achieved Excellence Awards as a piano accompanist in the Secondary Choir and Senior Vocal Ensemble in high school.

## Interests

* Severe weather – data analysis, reading recent severe weather news, and learning about the physical processes behind these weather systems.
* Meteorological data analysis of diurnal, seasonal, and annual trends in rainfall, temperature, and wind; particularly in Australia and Singapore.
* I regularly attend talks held by the Royal Meteorological Society (RMet) at the University of Leeds to keep up to date with current research in this field, and to obtain knowledge on the meteorological situation in the UK and around the world.

## Reference

Dr. Andrew Ross, Personal Tutor

School of Earth and Environment, University of Leeds

Lecturer: Dynamic Meteorology;

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