

Matthew Green

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I am completing a Bachelor of Mathematics/Bachelor of Science and am seeking a graduate position where I can further explore my passion for space science. My objective is to develop professional and technical skills while making a meaningful contribution to an organisation that provides an exciting and challenging work environment.

EDUCATION

2016 – present

Bachelor of Mathematics/Bachelor of Science

University of Newcastle (Callaghan)

- Due for completion: December 2020
- Majors: Pure Mathematics/Physics
- Current grade point average: 5.5/7
- Member of The University of Newcastle Physics Society

2015

Higher School Certificate

St Louis College, Hornsby

- Mathematics and Physics: Band 6

UNIVERSITY PROJECT

2020

Honours Project

University of Newcastle

Thesis: The Solar Dynamo: Impact of solar flares on Earth

- Exposed to data collected by NASA's Solar Dynamics Observatory on space weather
- Observed the use of and then processed data to form simulation weather patterns
- Used plasma physics equations to determine solar flare velocity
- Interpreted data generated by velocity changes
- Wrote a report and presented it to peers
- Assisted in drafting a grant proposal

Aug – Nov 2019

Third Year Research Placement (70 hours)

The Centre for Space Physics

University of Newcastle, Callaghan, NSW

- Read journal articles on core concepts, theories and approaches to solving problems in composites and device materials
- Preparation of the experiment, including processing of materials for semiconductor devices
- Wrote a scientific report on the relationships between materials structures, properties and processes
- Communicated using correct terminology when giving a presentation to peers and research group members

- Worked collaboratively and independently with a diverse team of 4 people to develop and complete the project

KEY CAPABILITIES

- Thorough understanding of the scientific method
- Strong critical-thinking abilities
- Able to solve problems through analysing large quantities of data
- Ability to apply deductive and inductive reasoning when problem-solving
- Experience using laboratory tools such as calipers, vernier scales, and oscilloscope
- Information Technology: Python (Numpy, Pandas, Scikit-learn, Keras, Flask) SQL

CUSTOMER SERVICE EXPERIENCE

2015 – 2019

Waiter

Rustica, Newcastle Beach

- Provided excellent customer service when greeting a diverse range of customers in the dining room
- Communicated in a professional manner when presenting menu options
- Worked both collaboratively and independently within a team of 8 wait staff
- Trained and supervised staff in telephone and personal customer service

INTERESTS

- Strong interest in nuclear and atomic physics
- Played football at National Premier league level; current member of the University team
- Enjoy international travel – have visited several Asian countries including China and Japan

REFEREES

Dr John Holdsworth, Ph.D.

Associate Professor,
School of Mathematical and Physical Sciences
University of Newcastle
Ph. (02) 4921 5436

Mark Smith

Restaurant Owner
Rustica, Newcastle Beach
Ph: (02) 49293333