

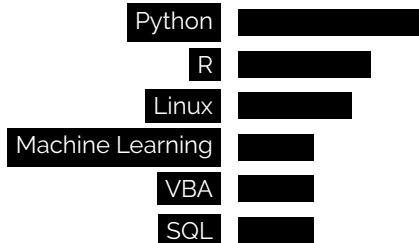
JACK MOON

Data Scientist

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WHO AM I?

I am researcher and data scientist with a particular interest in health and the environment. I have more than five years' experience as a researcher and tutor at The University of Sydney. I have my Bachelor of Science (Advanced Mathematics (Hons)) degree. I am looking for a position where I can apply my research and analytical skills in new and more challenging ways.



EXPERIENCE

2014 - 2021
casual

Lecturer and Tutor

University of Sydney

Since 2014, I have been employed by The University of Sydney as a mathematics tutor. During this time, I have had the opportunity to learn from and partner with a diverse student cohort. This diversity includes a range of disciplinary backgrounds and mathematical knowledge, varying age groups, as well as culturally and linguistically diverse backgrounds. Tutoring has both grown my own knowledge as well as my communication skills, especially in the area of conveying complex subjects in accessible ways. As a tutor, I received excellent feedback from my students specifically regarding my approachability and ability to explain material. I have taught a variety of subjects including Vector Calculus, Differential Equations, Linear Algebra, Integral Calculus, Statistics and Mathematical Modelling.

TeX / Matlab / Linux

2020 - 2021
part-time

Teaching Support Officer

University of Sydney

Providing technical and learning management support to a senior lecturer at The University of Sydney. Roles involved writing/developing course material and learning outcomes, writing research grant applications and learning management systems maintenance and support.

2020 - 2021
part time

Data Analyst - Academic Paper

University of Sydney

Collaboration with two other academics I researched and developed new analysis and prediction methods for mid term climate forecasting. Key roles involved developing data acquisition pipelines, automated data-health tools, report generation, liaising with data custodians regarding technical specifications, feature selection and the application of a number of different machine learning models.

Python / scikit-learn / R

2020 - 2021
part time

Web Development/Data Analyst

UNSW

Development of academic conference website for bioinformatics seminar series. Developed interactive data visualisation in JavaScript for water pollutants.

R / Python / JS / SQLite

2013 - 2014
part time

Business Systems Developer

Macmillan Publishing Australia

This role involved developing the database used to record clients, products and financial information. The database was developed in Microsoft Office and was customised for the specific requirements of Macmillan using the programming language Visual Basic.

VBA / Excel / SQL Server

EDUCATION

2014 - 2019
part time

PhD candidate in Mathematics (Discontinued)

University of Sydney

Throughout this time I was working part time as a PhD candidate researching Geometric Analysis and Harmonic Maps into Symmetric Spaces, which is in an area of pure mathematics looking at a mathematical systems which are energy minimising.

2009 - 2013

B.Sc (Advanced Mathematics and Physics) — First Class Honours

University of Sydney

I have a first class honours degree in pure mathematics and a double major in mathematics and physics