

Andrew Jones

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Experience

Senior Statistician – The University of Queensland	2021 – Present
<ul style="list-style-type: none">– Provided statistical support and advice to research and commercial clients– Developed and led statistical training workshops and seminars	
Sessional Lecturer – The University of Queensland	2024 – Present (part-time)
<ul style="list-style-type: none">– Lectured the course "BSAN3212 - Deep Learning for Business"– Developed and updated course materials and assessment	
Senior Data Analyst – Queensland Health	2019 – 2021
<ul style="list-style-type: none">– Performed data analysis on large linked electronic health record data sets– Developed custom data cleaning and testing frameworks in R– Improved predictive modelling frameworks for health outcomes– Assisted in the design and provision of datasets for research clients	
Data Scientist – Intragrid	2018 – 2019
<ul style="list-style-type: none">– Performed data analysis on large, dirty energy data sets– Produced user interfaces using R and shiny– Designed surveys for collecting user data	
Postdoctoral Research Fellow – The University of Queensland (UQ)	2017 – 2018
<ul style="list-style-type: none">– Performed statistical modelling and statistical technique development– Provided programming support (R, Python, C++) for research projects– Wrote and published several R packages	
Statistical Consultant – Common Capital	2016– 2017 (part-time)
<ul style="list-style-type: none">– Conducted statistical analyses on topics in the area of energy efficiency policy– Wrote reports for stakeholders from both the private and public sectors– Produced high-quality data visualisations and infographics	
Research Assistant – Centre for Advanced Imaging, UQ	2016 (part-time)
<ul style="list-style-type: none">– Provided statistical modelling and programming support for imaging data projects– Performed preliminary analysis and data preparation for part of large clinical study	
Mathematics & Statistics Tutor – University of Queensland	2009 – 2017 (part-time)
<ul style="list-style-type: none">– Developed material for statistics, experimental design and research methods courses– Tutored the above, as well as a variety of applied mathematics and calculus courses– Taught programming in R, MATLAB & Python, as well as the use of other statistical packages	

Skills

I have extensive experience with the following:

Programming:

C++, R, Rcpp, Python, SQL/NoSQL, TensorFlow, git, GCP & AWS, Matlab, SAS, Stata

Statistics:

Machine learning, neural networks, maximum likelihood estimation, population genetics, mixture models, GLMs, experimental design, clinical trials, data linkage

Education

Graduate Certificate of Data Engineering

2020

Australian National University

Doctor of Philosophy – Applied Statistics

2012 – 2016

University of Queensland

- Thesis: *Linkage Disequilibrium Estimates of Genetic Effective Population Size*
- Awarded Smart Futures PhD Scholarship (Queensland Government)
- Postgraduate student representative on the UQ School of Mathematics and Physics teaching and learning committee, 2014
- President of The University of Queensland Mathematics Students Society 2012 & 2013

Bachelor of Arts (Honours) – Mathematics

2004 – 2011

University of Queensland

GPA 6.38, Hons. I

Bachelor of Engineering – Mechatronic

2004 – 2010

University of Queensland

Hons. IIB