

Aiden Price

Research Associate, PhD



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Queensland University of Technology, Australia



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About me

I am an early career researcher, graduating from Queensland University of Technology in 2019. I am a research associate in the Queensland University of Technology's Centre for Data Science, working currently as a project manager for the Australian Environmental Health (AusEnHealth) Project, working on spatial and temporal analyses of nation-wide data.

Qualitative strengths:

- Public speaking,
- Problem solving & critical thinking,
- Leadership, and
- Communication skills.

Software Skills

MiniTab, Magma & Java

Python

C++

R, Data Analysis & Visualisation

MATLAB

LaTeX

Education

- 2015-2019 Doctor of Philosophy Queensland University of Technology
Error Control Theory: Low-Density Parity-Check (LDPC) codes.
- 2012-2015 Bachelor of Mathematics (Honours) Queensland University of Technology
Focus on Applied and Computational Mathematics, Statistics.

Awards

- 2015 Australian Postgraduate Award
- 2013 Vacation Research Experience Scheme Scholarship
- 2012 Dean's List Award, Dean's Scholarship, Vice-Chancellor's Scholarship
- 2011 Queen's Award (The Boys' Brigade Australia)

Experience

- 2020- Research Associate Queensland University of Technology
- Currently working as data analyst and project manager on the AusEnHealth Project.
 - Utilising machine learning, virtual reality and statistics techniques to investigate biodiversity in the Moreton Bay Region.
- 2019-2020 Research Engineer AOS Group
- Worked as a C++ programmer in robotic vision, working with machine learning tracking and camera calibration techniques.
 - Worked closely with a team to investigate the use of robotic vision techniques in an existing project.
- 2019-2020 Statistics Consultant DNRME Queensland
- Involved in data wrangling, visualisation and analysis.
 - Lead meetings reporting statistical analysis and consulted with key individuals to produce effective data summaries.
- 2019-2020 Lecturer Queensland University of Technology
- Delivered and coordinated material for four units.
 - Developed learning & teaching material for three units.
- 2012-2019 Sessional Academic Tutor Queensland University of Technology
- Tutored over 50 semesters of various university subjects.
 - Coordinated tutoring teams and handled student queries in three 'tutor-coordinator' roles.

Projects

- 2015-2019 Improved Low-Density Parity-Check Code Constructions (PhD).
- 2014-2015 Analysis of Latin Squares in Cryptography (Honours).
- 2013 Constructions of Format Preserving Hash Functions using Block Ciphers (Vacation Research Experience Scheme).

Publications

- 2021 A. Price, M. Bode. *Negotiations may not deliver win-win outcomes in negotiations between conservation and non-conservation organisations.* (Pending, PLOS One)
- 2019 A. Price, H. Bartlett, and E. Dawson. *QC-LDPC codes from relaxed difference sets.* (Pending, Electronics Letters)
- 2019 Donovan, A. Price, A. Rao, and E. Sule Yazici. *High rate LDPC codes from partially balanced incomplete block designs. Designs, Codes and Cryptography.* (Pending, Designs, Codes and Cryptography)
- 2017 A. Price, J. Hall, and H. Bartlett. *Refining the search space of Alltop functions. Contributions to Discrete Mathematics.* (Pending, Contributions to Discrete Mathematics)
- 2017 A. Price, and J. Hall. *A Survey on Trapping Sets and Stopping Sets.* (ArXiv)