

Gabriel Dennis

DATA ANALYST

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Summary

Current Data Analyst working at CSIRO. Enjoys Mathematics, Statistics, Machine Learning, Programming, Linux and both Vim and Emacs. Interested in devising a better problem-solving method for challenging tasks as well as learning new technologies and tools if the need arises.

Work Experience

Commonwealth Scientific Industrial Organization (CSIRO)

Brisbane, Australia

DATA ANALYST IN THE AGRICULTURE AND FOOD DIVISION

Jul. 2021 - Present

- Calculating and modelling climate indicators, using Python and R, from historical and projected geospatial climate data using several high performance computing cluster, including on the CSIRO HPC system and the National Computational Infrastructure (NCI).
- Containerizing and deploying various different process and simulation based scientific models into production.
- Creating numerous dashboards and applications using R and Python to communicate climate insights and reports to internal teams and external commercial clients.
- Working on a team to develop a sustainability SAS platform using Go and Typescript for an internal CSIRO startup.
- Creating Data Analysis R packages for reproducible research.

Veitch Lister Consulting

Brisbane, Australia

INTERN

Nov. 2019 - Feb. 2020

- Agent Based Modelling of Dynamic Traffic Assignment (DTA) using the open source traffic model MATSIM, as well as Java and Python.
- Creating visualisations of scenarios obtained from various traffic models using Java and Python.

Commonwealth Scientific Industrial Organization (CSIRO)

Brisbane, Australia

RESEARCH ASSISTANT

Feb. 2019 - Dec. 2019

- Visualising economic data using R.
- Clustering and classification of economic data using statistical and machine learning techniques.
- Web scraping text data from household surveys using R.

The University of Queensland (UQ)

Brisbane, Australia

CASUAL ACADEMIC

Feb. 2019 - June. 2021

- Tutored courses on Calculus, Linear Algebra, Differential Equations and Programming.

Commonwealth Scientific Industrial Organization (CSIRO)

Brisbane, Australia

RESEARCH STUDENT

Nov. 2018 - Feb. 2019

- Extraction, cleaning, and analysis of different forms of economic survey data using R.
- Clustering and classification of economic survey data for Bayesian Cross Entropy modelling.
- Building Rshiny apps to visualise economic indicators of global sustainability.

Education

UQ (The University of Queensland)

Brisbane, Australia

BACHELOR OF MATHEMATICS (HONOURS)

July. 2020 - June. 2021

- Honours Class I
- Thesis: *Semiparametric Vector Generalized Linear Models: Computation and Estimation*
- Deans Commendation for Academic Excellence (Semester 2, 2020)

UQ (The University of Queensland)

Brisbane, Australia

BACHELOR OF MATHEMATICS

July. 2017 - June. 2020

- GPA of 6.95/7
- Deans Commendation for Academic Excellence (Semester 1,2 (2018), 1,2 (2019), 1 (2020))

QUT (Queensland University of Technology)

Brisbane, Australia

BACHELOR OF ENGINEERING (HONOURS)

July. 2016 - June. 2017

- GPA of 7.0/7
- Not complete.