

Harrison Button

He/Him

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🐙 github.com/hbutton

EDUCATION

- **The University of Western Australia**
Master of Data Science July 2022 - Current
- **The University of Queensland**
Bachelor of Science (Honours) in Exploration Geophysics Feb. 2019 - Nov. 2020
 - Thesis Title: Linear inversion of seismic refraction amplitudes for near-surface velocity control.Bachelor of Mathematics / Science in Statistics and Geological Sciences (Extended) Feb. 2014 - Nov. 2018

EXPERIENCE

- **Rio Tinto Exploration**
Geodata Scientist Aug. 2021 - Present
 - Work as part of a global team to provide data science support to the regional and global exploration teams.
 - Use Python and R to develop machine learning models and create interactive visualisations.
 - Experience using Amazon Sagemaker and RStudio Connect.
 - Provide training on R, data science, and statistics to the Australasia team.Vacation Student - Geophysics Nov. 2020 - Aug. 2021
 - Completed routine analysis of geophysical and petrophysical data.
 - Compiled project-wide and state-wide data sets.
 - Supervised both airborne and ground geophysical surveys undertaken by contractors.
 - Implemented data science techniques to analyse geophysical and geochemical data.
- **The University of Queensland**
Tutor, School of Mathematics and Physics Jul. 2017 - Nov. 2020
 - Instructed students in probability and statistics; demonstrated the use of R, Python, and Matlab; marked assessment; aided the development of upper year course material.
 - Tutored a wide range of introductory and advanced courses to specialist and non-specialist students. Select courses include DATA7202 "Statistical Methods for Data Science", STAT3006 "Statistical Learning", and STAT3500 "Problems and Applications in Modern Statistics".
- **Santos**
Vacation Student - Geomechanics Nov. 2017 - Feb. 2018
 - Populated a database with frac pressure data; analysed fracture gradients and created mechanical earth models to identify pore pressure/stress coupling ratios throughout the Cooper Basin.
- **Origin Energy**
Vacation Student - Exploration and New Resources Nov. 2016 - Feb. 2017
 - Populated a new database with petrophysical well log data; performed QAQC of well log data.

SKILLS

- **Programming:** Experienced in Python, R, Fortran, L^AT_EX. Basics in Matlab, VBA, SQL
- **Software:** Microsoft Excel, Linux, Oasis Montaj, ioGas, ModelVision, Geoscience Analyst
- **Technologies:** Amazon Sagemaker, RStudio Connect, Tensorflow, R Shiny, Tidyverse, Git

PROFESSIONAL MEMBERSHIPS

- **Australian Society of Exploration Geophysicists:** Graduate Member
- **Australian Institute of Geoscientists:** Graduate Member

HOBBIES

- Playing and seeing live music; collecting vinyl records; tinkering with computers; stationery.