

Harrison Button

He/Him

☎ 0433 931 043 ✉ harrisonsbutton@gmail.com

🌐 linkedin.com/in/harrisonbutton

🐙 github.com/ignorant-fool

EDUCATION

- **The University of Western Australia**
Graduate Certificate in Data Science Jul. 2022 – Sep. 2023
- **The University of Queensland**
Bachelor of Science (Honours) in Exploration Geophysics Feb. 2019 – Nov. 2020
Bachelor of Mathematics / Science in Statistics and Geological Sciences (Extended) Feb. 2014 – Nov. 2018

EXPERIENCE

- **Rio Tinto Exploration**
Geodata Scientist - Analyst II Jan. 2023 – Present
 - Utilized Docker and AWS cloud computing services to scale-up internal R&D projects, unlocking new capabilities in large-scale geophysical modelling for target generation and prioritization.
 - Contributed to the full stack development of an image similarity application, including custom geoscientific visualizations and automated deployment through GitHub Actions.
 - Helped manage an internal Posit Connect server with over 100 users from the regional exploration teams, and also provided general R expertise to citizen data scientists throughout the entire Rio Tinto company.
Geodata Scientist - Analyst I Aug. 2021 – Dec. 2022
 - Implemented recently published machine learning models for ore-body knowledge and target generation, highlighting new areas of prospective mineralization to the regional exploration teams.
 - Automated GIS workflows and forward-looking economic simulations, saving hours of manual work per month.
 - Collaborated with internal and external partners to produce data science products and applications for a global user base.
Vacation Student - Geophysics Nov. 2020 – Aug. 2021
 - Completed routine analysis of geophysical, geochemical, and petrophysical data for target generation in the Mt Isa (Cu-Au) and Pilbara (Fe ore) regions.
 - Compiled project-wide and state-wide data sets.
 - Supervised both airborne and ground geophysical surveys undertaken by geophysical contractors.
- **The University of Queensland**
Tutor, School of Mathematics and Physics Jul. 2017 – Nov. 2020
 - 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
- **Origin Energy**
Vacation Student - Exploration and New Resources Nov. 2016 – Feb. 2017

SKILLS

- **Programming:** Knowledgeable in Python, R, L^AT_EX. Basics in Fortran, Matlab, VBA, SQL, C.
- **Geoscientific Software:** Oasis Montaj, ioGas, ModelVision, Geoscience Analyst, ArcGIS Pro (including ArcPy).
- **Other:** AWS, Dash, Git, Jira, R Shiny, Posit Connect, Linux, Microsoft Excel.

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; reading manga.