

# 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 – Jun. 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

Geodata Scientist - Analyst I

Aug. 2021 – Dec. 2022

- Implement machine learning models and create interactive visualizations for ore-body knowledge and target generation using R and python.
- Automate manual workflows in ArcGIS Pro using ArcPy.
- Collaborate with internal and external partners to improve data management systems and maintain data science products, including managing an R Studio Connect server.
- Provide training on R, python, data science, and statistics to the regional exploration teams.

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 geophysical contractors.
- Implemented data science techniques to analyze geophysical and geochemical data for target generation in the Mt Isa and Pilbara regions.

- **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; analyzed 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; modeling in Petrel.

## SKILLS

---

- **Programming:** Experienced in Python, R, Fortran, L<sup>A</sup>T<sub>E</sub>X. Basics in Matlab, VBA, SQL, C.
- **Software:** Microsoft Excel, Linux, Oasis Montaj, ioGas, ModelVision, Geoscience Analyst, ArcGIS (incl. ArcPy).
- **Technologies:** Amazon Sagemaker, RStudio Connect, Tensorflow, R Shiny, Tidyverse, Git, SimPEG.

## 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.