

# Harrison Button

He/Him

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🐙 github.com/ignorant-fool

## EDUCATION

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- **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

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- **Rio Tinto Exploration**

Geodata Scientist

Aug. 2021 - Present

- Provide data science support to the regional exploration teams for ore-body knowledge and target generation.
- Implement machine learning models and create interactive visualizations using both Python and R.
- Experience using Amazon Sagemaker, RStudio Connect and Git.
- Provide training on R, 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.

## SKILLS

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- **Programming:** Experienced in Python, R, Fortran,  $\text{\LaTeX}$ . 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

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

## HOBBIES

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