Harrison Button

He/Him

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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 CI/CD 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 methods for ore-body knowledge and target generation in global exploration contexts.
  - 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 and Pilbara regions.
  - Compiled both project and state-wide data sets across Australia.
  - Supervised 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".

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

SKILLS

- **Programming:** Python, R, LaTeX, 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:** Member
- **Australian Institute of Geoscientists:** Graduate Member

HOBBIES

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