

Sam Vaughan

DATA ANALYST · PHD ASTROPHYSICIST

☎ (+61) 466 678 963 | ✉ samvaughan01@gmail.com | 🌐 www.samvaughan.info | 📱 samvaughan | 🌐 sam-vaughan

I am an analyst and researcher with 9 years of experience leading scientific and data-driven projects. I am looking to apply my skills to new challenges in the public sector. I have a strong background in data analysis, independent problem solving and communicating results and ideas to a diverse range of audiences.

Experience

AE Capital

Melbourne, Australia

QUANTITATIVE ANALYST

April 2024 – Present

- I designed and analysed bespoke datasets and influences business-critical decisions.

Macquarie University

Sydney, Australia

RESEARCH ASSOCIATE IN DATA INTENSIVE ASTRONOMY

October 2022 – March 2024

- I designed, executed and published my own independent research, all of which focused on applying novel statistical and machine-learning methods to astrophysical data.

University of Sydney

Sydney, Australia

RESEARCH ASSOCIATE

June 2019 – October 2022

- I designed and implemented software pipelines crucial to the success of a large, multi-million dollar research project.

Skills

TECHNICAL SKILLS

- Highly-trained in data analysis to derive insights from large volumes of data.
- Strong background in solving problems and making data-driven decisions using **Python**, **R**, **SQL**, Excel and Power BI.
- Proven ability to visualise complex data clearly for a variety of audiences.

LEADERSHIP AND PROJECT MANAGEMENT

- Experience in a key technical leadership role in a multi-million dollar 7-year project.
- Designed and led international research collaborations, typically between 5-10 researchers over 1-3 years.
- Supervised a total of 8 junior colleagues at PhD, Masters and undergraduate level.

COMMUNICATION

- Author of 32 scientific papers in peer-reviewed international scientific journals.
- Regularly presented results to large expert audiences at international conferences.
- Experience teaching scientific and programming concepts to non-expert audiences.

Education

DPhil in Astrophysics

UNIVERSITY OF OXFORD

2015 – 2019

- PhD Thesis: A study of stellar populations in the last 5 billion years using Integral Field Spectroscopy

MPhys in Physics

UNIVERSITY OF OXFORD

2011 – 2015

- First Class Honours

References

Dr. Lyle Pakula

lyle@aecapital.com.au

CHIEF INVESTMENT OFFICER, AE CAPITAL

Prof. Richard McDermid

richard.mcdermid@mq.edu.au

MACQUARIE UNIVERSITY

Prof. Scott Croom

scott.croom@sydney.edu.au

THE UNIVERSITY OF SYDNEY