Rhys Shaw M.Inst.P, MSc, BSc Astrophysicist

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The online version is available at https://RhysAlfShaw.github.io/CV

Residence Wales, Uk Homepage

https://RhysAlfShaw.github.io/

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Astrophysics+++		Mathematics+++		Computatior lal++		Python	++++	Fortran	+++	JavaScript +++
				Physics						
CSS	++	HTML	+++	React.js	+++	Node.js	+++			

Hello, I am Rhys. I am a current PhD researcher at the University of Bristol. My research focuses on radio source analysis, using machine learning techniques. I have some experience with web-developement and I have been programming for more than 4 years.

Research Projects

PhD Research: Radio source multipicity and Machine Learning.

Inprogress ~ Due for completion 2026

Developing tools to create true associations between seperated radio sources using morphological, spectral and flux analysis of the source to feed into a neural network to learn characteristics of these associations. This will allow for quick processing of SKA and future radio observational data.

 Python
 Software Engineering
 Machine Learning
 Neural Networks
 Computational Astrophysics
 Radiowave Sources

 Project Files

MSc Project: Studing the effect of Substucture in Star Clusters.

2021

Simulating a planetary system orbiting solar mass stars within a fractally substructured cluster using a dual integrator approach, where the cluster was integrated with NBODY6++ and star positions interpolated for use by the planetary integrator.

 Python
 Linux
 Fortan
 Computational Physics
 Problem Solving

 Project Files

BSc Project: Examining Galaxy Cluster Properties from seperatly selected samples.

2020

Measuring galaxy cluster morphology, with a custom algorithm, and their luminosity-temperature scaling relation with observational data from the Chandra observatory was done to compare two samples of galaxy clusters.

Python Data Analysis Linux Problem Solving
Project Files

Education

Academic

2022-2026 | PhD Physics (Starting in September 2022) -- Research Area: Radiowave Astronomy and Machine Learning. University of Bristol

2020-2021 | MSc Data Intensive Astrophysics, Distinction. Cardiff University 2017-2020 | BSc Physics with Astrophysics (2.1). University of Bristol

Other

2022 | Zero to Mastery Web Development in 2022 online course. Udemy