

Rhys Shaw

PhD Student in Astrophysics

Bristol, UK

[linkedin.com/in/rhysalfshaw](#)

[rhysalfshaw.com](#)

rhysalfshaw@gmail.com

[github.com/RhysAlfShaw](#)

0000-0003-4318-0737



Summary

Experienced Software Engineer specializing in artificial intelligence, machine learning, and robotics. Proficient in C++, Python, and Java, with a knack for developing sentient AI systems capable of complex decision-making. Passionate about ethical AI development and eager to contribute to groundbreaking projects in dynamic environments.

Education

PhD in Astrophysics	2026
<i>University of Bristol, Bristol, England</i>	
Master of Science in Data Intesive Astrophysics	2021
<i>Cardiff University, Cardiff, Wales</i>	
Bachelor of Science in Physics with Astrophysics	2020
<i>University of Bristol, Bristol, England</i>	

Experience

Intern	2024-09-01
<i>Aleph Insights, London, England</i>	

- Worked on building a internal LLM client tool. This interacted with any LLM API, stored all data locally and allowed for attaching relevant documents from local network.

Postgraduate Teaching Assistant	2022-06-01
<i>University of Bristol, Bristol, England</i>	

- Lab demonstration, assinting 2ndyear undergraduates in completing there research projects. this required a detailed working knowledge of anumber of projects. Marking through conducting Interview and marking formal reports.

Publications

Collaboration, E., Zatarain, T. M., Fotopoulou, S., Ricci, F., Bolzonella, M., Franca, F. L., Viitanen, A., Zamorani, G., Taylor, M. B., Mezcua, M., Laloux, B., Bongiorno, A., Jahnke, K., Stevens, G., Shaw, R. A., Bisigello, L., Roster, W., Fu, Y., Margalef-Bentabol, B., ... Soubrie, E. (2025, March). *Euclid Quick Data Release (Q1). The active galaxies of Euclid*. arXiv. <https://doi.org/10.48550/arXiv.2503.15320>

Shaw, R. A., Fotopoulou, S., Birkinshaw, M., Maddox, N., & Stewart, H. (2025). DRUID: source detection and deblending in astronomical images with persistent homology. *RAS Techniques and Instruments*, 4, rzaf6. <https://doi.org/10.1093/rasti/rzaf006>

Skills

Programming languages

Python	JavaScript
LaTeX	Fortran
C++	Rust
Typst	

AI/ML

Pytorch	TensorFlow
HuggingFace	

Tools

Git	Docker
-----	--------