Skye Owen-Lloyd-Walters They/She

MPhys MInstP FRAS

Contact

skye@lloydwaltersj.co.uk

Havant, Hampshire, United Kingdom

Platforms

lloydwaltersj.com

jack-skye-owen-lloyd-walters

sk1y101

0000-0003-2186-1582

Languages

- **English** — Native
- **Japanese** — Beginner

Programming

- **Python** — Expert
- **LaTeX** — Advanced
- **Markdown** — Advanced
- **Groovy** — Advanced
- **HTML/CSS** — Intermediate
- **Javascript** — Intermediate
- **Kerboscript** — Intermediate
- **Go** — Intermediate
- **Terraform HCL** — Intermediate
- **SQL** — Mediocre
- **Bash** — Mediocre

Hobbies and Interests

Space & Spaceflight

Natural or artificial, if it's found outside of earth's atmosphere, I probably like it. Exoplanets and space-probes are my favourite though.

Gaming

I Love Factorio, Stellaris, modded Minecraft, and Kerbal Space Program.

Programming

I build watch faces for my FitBit Versa, occasionally work on my custom programming language, and am slowly building a flight computer for Kerbal Space Program.

Experience

Canonical

Present – 2023-05 — Software Engineer I — *Canonical MAAS (Metal-As-A-Service)*

Primarily handling internal automation resources, including our Jenkins CI, image promotion workflows, and spike into automated point releases and bug backporting. Implementing Ancillary MAAS products for automating bootstrapping and lifecycle of your MAAS cluster

2023-05 – 2022-06 — Associate Software Engineer — *Canonical MAAS (Metal-As-A-Service)*

Joined as part of the graduate fast track programme as a python backend developer.

B&M

2019-10 – 2017-10 — Floor Staff

Primarily worked on Fast Moving Customer Goods, Unloading deliveries, and Warehouse organisation

Education

University of Portsmouth

2022-05 – 2018-09 — MPhys Physics, Astronomy, and Cosmology — *First Class Honours*

- First year mean grade of 76.7%, Final year mean grade of 79.2%
- Masters thesis combining computational modelling, first hand observation, and supplemental data to measure exoplanet transits. Developed analytical models of transit timing variation to investigate the orbital properties of non-transiting planets. Results were summarised with a 6000 word dissertation, 10 minute presentation/discussion, and scientific poster.
- Bachelors thesis utilising computational modelling and signal processing to identify and model glitch events within the LIGO data set. Results were summarised with a 5000 word dissertation, 10 minute presentation/discussion, and LaTeX Compatible result list.

AiCore

2022-06 – 2022-01 — Ai and Data Engineering — *Certified in the practical application of AI and Data Engineering*

Peter Symonds College

2018-06 – 2016-09 — A-Level — *Physics (A), EPQ (A), Maths (B), Further Maths (D), AS-Chemistry (A)*

City of Portsmouth Boys' School

2016-05 – 2011-09 — GCSE — *9 GCSE's A* to B Including Science, Computer Science, Maths, and English*

Memberships

British Astonomical Association

Present – 2022 — Member

Institute of Physics

Present – 2022 — Member — *Granted the use of the post-nomen 'MInstP'*

2022 – 2018 — Associate Member

European Astronomical Society

Present – 2020 — Member

Royal Astronomical Society

Present – 2020 — Fellow — *Granted the use of post-nomen 'FRAS'*

Awards

2022-05 — Graham Bryant Prize for Best Observatory Project — *University of Portsmouth*

First recipient of the award to honour the late Graham Bryant for my Masters thesis

Projects and Publications

2025-11 — Exoclock Data Release IV — *ExoClock*

ExoClock Project IV: A homogeneous catalogue of 620 updated exoplanet ephemerides

Ongoing — Terraform MAAS bootstrap — *Canonical*

Infrastructure as code to bootstrap a MAAS instance

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Ongoing	MAAS Terraform provider Infrastructure as code for your running MAAS instance	*Canonical*
Ongoing	Go MAAS Client Go client wrapper around the MAAS API	*Canonical*
Ongoing	MAAS Anvil Charm based bootstrapping for your MAAS topology	*Canonical*
Ongoing	MAAS Charms Charmed MAAS	*Canonical*
Ongoing	MAAS Internal CI Manages our Jenkins instance and acts as primary point of knowledge.	*Canonical*
Ongoing	Packer-MAAS Custom images for your MAAS deployment	*Canonical*
Ongoing	Metal As A Service	*Canonical*
2025-11	VisualNovel Template A lightweight web-based Visual Novel engine template, supporting many effects, branching stories, and variations to ensure every playthrough feels amazing.	
2024-06	AutoBreezeBeats Web interface to play youtube video audio over a bluetooth connected device. Designed with a home "radio station" in mind	
2024-03	Season Clock Fitbit Clock face showing the seasons on your wrist	
2023-09	'Variations on an Exoplanet theme' webinar Computational Modelling of Transit Timing Variations	*British Astronomical Association*
2023-03	MAAS Ansible Playbooks	*Canonical*
2022-05	Lloyd-Walters et al. 2022 Masters: 'Determining The Parameters of Exoplanetary Candidates From Transit Timing Variations.'	*University of Portsmouth*
2022-05	Data Science Project Combined Data science and AI Pipeline for outcome prediction	*AiCore*
2022-03	Data Collection Pipeline Industry grade data collection pipeline on AWS using Docker, Selenium4, Prometheus, and Grafana.	*AiCore*
2022-02	Fitbit Pokétch A Fitbit clock-face in the style of the Pokémon Generation IV Pokétch.	
2022-02	Computer Vision Rock-Paper-Scissors TensorFlow based model to play Rock-Paper-Scissors in real time with a webcam and openCV	*AiCore*
2021-05	Lloyd-Walters et al. 2021 Bachelors: 'Distinguishing Intermediate Mass Black Hole Mergers From Short Duration Glitches.'	*University of Portsmouth*
2017-12	Lloyd-Walters J. 2017 Extended Project: 'Is There A Possibility of Extrasolar Habitation?'	*Peter Symonds College*