

## Postdoctoral Researchers in Galactic Archaeology (2 positions)

The School of Mathematical and Physical Sciences, Macquarie University and the Sydney Institute for Astronomy at the University of Sydney are each seeking a Postdoctoral Research Associate in Galactic Archaeology, to work with data from the international [Southern Stellar Stream Spectroscopic Survey \(S5\)](#) collaboration.

The position at Macquarie University, working with [Professor Daniel Zucker](#), is focused on the analysis and interpretation of the large (and expanding) body of spectroscopic data on stellar streams in the Southern Hemisphere, as well as the exploitation of ancillary data sets. The objective is to understand the properties of these streams and their progenitors, in order to trace the accretion history of the Milky Way and the properties of its stellar halo.

The position at the University of Sydney, working with [Professor Geraint Lewis](#), will be to undertake numerical modelling of the tidal streams, with the goal of determining the dynamical history of the tidal streams and the properties of the dark matter halo of the Milky Way. Both researchers will also have the opportunity to take part in the ongoing S5 observational program.

The [School of Mathematical and Physical Sciences](#) is located on the Wallumattagal Campus of Macquarie University in the leafy suburb of North Ryde, less than 30 minutes by train from the Sydney Central Business District, and bordering on the picturesque Lane Cove National Park. The Sydney Institute for Astronomy is part of the [School of Physics](#) and is situated on the main Camperdown Campus of the University of Sydney, just minutes from the heart of the city. Sydney itself was ranked the world's third most liveable city by the Economist in 2019, and generally ranks in the top 10 of cities with the highest quality of living.

### **Macquarie Position**

- Salary Package: Level A step 6-8 (PhD) from A\$97,621 to A\$104,622 plus 17% employer's superannuation and annual leave loading.
- Appointment Type: Full-time, fixed term for 2 years with a possibility of further extension subject to funding.

### Essential criteria:

- A PhD in astrophysics, physics, or a closely related field
- Ability to undertake original research, as evidenced by impactful and high-quality outputs
- Ability to foster a nurturing environment for research students, including the provision of research student supervision
- Demonstrated capacity to work independently and as part of a team
- Excellent oral and written communication skills, with an ability to engage with staff and students across discipline boundaries
- Strong analytical thinking and independent problem-solving skills

### Desirable criteria:

- Experience in astronomical observations
- Familiarity with the interpretation of astronomical spectra

**To apply, please go to:**

[https://mq.wd3.myworkdayjobs.com/CareersatMQ/job/Wallumattagal-Campus-North-Ryde/Postdoctoral-Research-Fellow\\_R000012825](https://mq.wd3.myworkdayjobs.com/CareersatMQ/job/Wallumattagal-Campus-North-Ryde/Postdoctoral-Research-Fellow_R000012825)

Macquarie University's goal is to increase the proportion of women, Aboriginal and Torres Strait Islander peoples, and diverse peoples of all backgrounds in Science, Technology, Engineering, Mathematics and Medicine (STEMM) roles. **Applications are considered holistically, and candidates are encouraged to apply even if they may not feel strong on every individual selection criterion.** For more information, please visit our Equity, Diversity and Inclusion page <https://staff.mq.edu.au/work/diversity-inclusion>.

Enquiries: Professor Daniel Zucker at [daniel.zucker@mq.edu.au](mailto:daniel.zucker@mq.edu.au)

Applications close: **Thursday 14 September 2023 at AEST 11:59PM**

### **University of Sydney Position:**

- Full time, two years fixed term with the possibility of a further extension dependent upon funding. Located on the Camperdown Campus at the School of Physics
- Base Salary, Level A, A\$100K - A\$107K p.a. + 17% superannuation

The University values courage and creativity; openness and engagement; inclusion and diversity; and respect and integrity. As such, we see the importance of recruiting talent aligned to these values and are looking for a Postdoctoral Research Associate who has:

- A PhD in physics/astrophysics
- Expertise in numerical modelling of galactic-scale interactions
- Expertise in high-performance computing
- Expertise in Bayesian approaches is desirable
- Experience in observational astronomy is desirable

**To apply, please go to:**

[https://usyd.wd3.myworkdayjobs.com/USYD\\_EXTERNAL\\_CAREER\\_SITE/job/Other-Facilities/Postdoctoral-Researcher-in-Galactic-Archaeology\\_0106297-1](https://usyd.wd3.myworkdayjobs.com/USYD_EXTERNAL_CAREER_SITE/job/Other-Facilities/Postdoctoral-Researcher-in-Galactic-Archaeology_0106297-1)

At the University of Sydney, our shared values include diversity and inclusion and we strive to be a place where everyone can thrive. We are committed to creating a University community which reflects the wider community that we serve. We deliver on this commitment through our people and culture programs, as well as key strategies to increase participation and support the careers of Aboriginal and Torres Strait Islander People, women, people living with a disability, people from culturally and linguistically diverse backgrounds, and those who identify as LGBTIQ. We welcome applications from candidates from all backgrounds.

Enquiries: Professor Geraint Lewis at [geraint.lewis@sydney.edu.au](mailto:geraint.lewis@sydney.edu.au)

Applications close: **Thursday 14 September 2023 at AEST 11:59 PM**