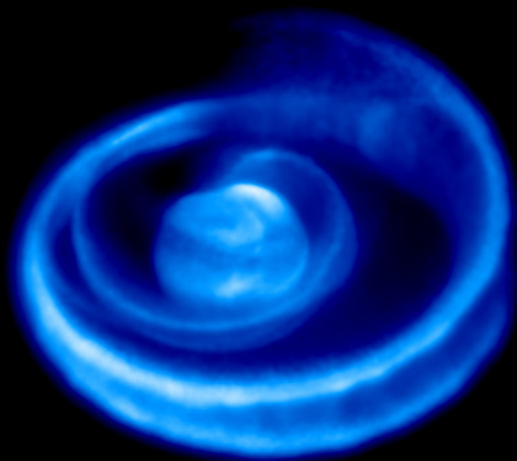


# Astronomy and Astrophysics Postgraduate Degrees

Macquarie University



Miguel Gonzalez

Do your postgraduate degree at Macquarie University Astronomy, Astrophysics and Astrophotonics Research Centre, one of Australia's top ranked astronomy groups located in Sydney's leafy northern suburbs.

Observe, model and understand the Universe with leading researchers at top-rated facilities; use, design and build world-class instrumentation; become part of a friendly, inclusive and welcoming group.

## ASTRONOMY AT MACQUARIE

Macquarie's astronomy and astrophysics research group ranks among the best in Australia. We offer higher research degrees, such as the Master of Research and the Doctor of Philosophy, on topics ranging from exoplanets to distant galaxies, star formation to stellar death, the evolution and origin of the Milky Way to the design and fabrication of astronomical instrumentation.

As a postgraduate student at Macquarie, you will have access to world-class optical and radio observatories, state-of-the-art instrumentation labs and supercomputers. We collaborate closely with Australian Astronomical Optics (AAO), a world-leading instrumentation lab, and with CSIRO Space and Astronomy, which operates Australia's national radio astronomical observatories. Many of our students are jointly supervised by AAO and CSIRO S&A researchers.

As a Macquarie astronomer, you will join a large, diverse and international group of researchers and students. We strive to create an equitable, inclusive and welcoming environment for all people who work and study with us.

Our main campus, 30-minutes drive or train ride from the city of Sydney, is set on 126 hectares of peaceful parklands.

## OUR RESEARCH PROJECTS

As a higher degree research student, you will work on exciting research projects in astronomy and astrophysics such as:

1. Ultra-faint imaging of galaxies with the Huntsman Telephoto array
2. Modelling stellar collisions with high performance computing
3. Seeking the Milky Way's hidden gas with Australia's radio telescopes



Amir Ebadati Bazkiaei

For our full list of projects visit: [goto.mq/a0](http://goto.mq/a0)

## TRAINING AND EMPLOYABILITY

Our postgraduate students go on to high-level jobs all over the world at universities and observatories or in the commercial and scientific sectors – and undertake careers in astronomy, data science, scientific modelling, science communication and more. In addition to world-class training in astronomy and instrumentation research, you will have access to training and development opportunities designed to increase your employability in areas beyond academia. These include coding and statistics classes, writing and speaking workshops, one-on-one sessions with industry mentors and industry-facing pitch sessions.

## DOCTOR OF PHILOSOPHY

The Doctor of Philosophy (PhD) consists of three years full-time (or six years part-time) extensive independent research followed by the submission of a thesis. You must have already completed a master degree with a significant research component.

## MASTER OF RESEARCH

For more thorough grounding in research techniques and concepts before commencing a PhD, we offer a two-year Master of Research (MRes), consisting of one year of taught coursework (including a research training component) followed by a 10-month research project. If you have completed Australian honours or a coursework master degree, you can enter from the second year of the MRes program.

## HIGHER DEGREE RESEARCH SCHOLARSHIPS

For current domestic and international scholarship opportunities and application dates visit: [mq.edu.au/research-scholarships](http://mq.edu.au/research-scholarships)

## HOW TO APPLY

Email [astrohdrinfo@mq.edu.au](mailto:astrohdrinfo@mq.edu.au) with undergraduate and master-level transcripts, your resume and some information about yourself and any projects you might be interested in. You will be connected with relevant supervisors who will mentor you through the application process. Visit the website for entry and English language requirements, and follow the six-step application process. Applications for candidature will be considered at any time.

[mq.edu.au/information-about/how-to-apply](http://mq.edu.au/information-about/how-to-apply)

## FIND OUT MORE

E: [astrohdrinfo@mq.edu.au](mailto:astrohdrinfo@mq.edu.au)  
[astronomy.mq.edu.au](http://astronomy.mq.edu.au)

Chris Stacey

