



# Research Fellow in Astrophysics

<b>Department/Unit</b>	School of Physics and Astronomy
<b>Faculty/Division</b>	Faculty of Science
<b>Classification</b>	Level A
<b>Work location</b>	Clayton campus
<b>Date document created or updated</b>	Nov 2017

## Organisational Context

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at [www.monash.edu](http://www.monash.edu)

**The Faculty of Science** works through frontiers via our research, teaching and our partnerships with industry, government and individual supporters. Our five Schools offer a large and diverse range of disciplines in undergraduate and postgraduate courses. Ten Schools from other university faculties contribute to science teaching at all levels, allowing students to choose their studies from physical, biological, biomedical, behavioural, environmental, mathematical and computer sciences. In terms of research, our respected researchers are at the top of their game. Their work spans the theoretical to the applied, contributes to new knowledge and technologies, and challenges how we interact with the world. For more information about our Faculty, please visit [monash.edu/science](http://monash.edu/science).

**The School of Physics and Astronomy** is a School located within the Faculty of Science. It aims to position itself as one of the top physics and astronomy research and teaching departments in Australia. The School is committed to teaching and research of the highest quality in astronomy, astrophysics, experimental physics, and theoretical physics. We are strongly committed to improving the diversity of our staff and students, and promoting a culture of equality, fairness, respect and openness. In 2015, the School received a Bronze Pleiades Award - Recognising Commitment to Advancing Women in Astronomy. This is an important first step in affirming women within the School, one that we can build upon. For more information about our School, please visit: [physics.monash.edu](http://physics.monash.edu).

## Position purpose

A Level A research-only academic is expected to contribute towards the research effort of the university and to develop her/his research expertise through the pursuit of defined projects relevant to the particular field of research.

The Level A academic will conduct research in astronomy and astrophysics relating to the modelling or observations of protoplanetary discs, or more broadly in the areas of star and planet formation. The position is funded by an Australian Research Council project grant DP180104235 "Gaps, rings and holes in protoplanetary discs - signs of newborn planets?", in collaboration with Associate Professor Daniel Price and Dr Christophe Pinte at Monash and Professor Giuseppe Lodato in Milan, Italy. We are looking for a candidate who will complement our existing expertise in this area in either observations or modelling of discs, with freedom for the appointee to set their own research direction within the broad goals of the project.

**Reporting line:** The position reports to Associate Professor Daniel Price

**Supervisory responsibilities:** Not applicable

**Financial delegation and/or budget responsibilities:** Not applicable

## Key responsibilities

Specific duties required of a Level A research-only academic will include:

1. Conducting research in modelling or observations of protoplanetary discs, or more broadly in the areas of star and planet formation, under limited supervision, both as a member of the team and independently
2. The production or contribution to the production of peer-reviewed scientific articles from that research
3. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
4. Limited administrative functions primarily connected with the area of research of the academic (e.g., the preparation of competitive grants)
5. Development of a limited amount of research-related material for teaching or other purposes with appropriate guidance from other staff
6. Co-supervision of PhD and honours (masters-level) students
7. Occasional contributions to supervision/teaching in relation to her/his research project(s)
8. Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at School and/or Faculty meetings and/or membership of a limited number of committees

## Key selection criteria

### Education/Qualifications

1. The incumbent should possess a PhD in astronomy or astrophysics or a related discipline

### Knowledge and Skills

2. A strong background and expertise in modelling or observations of protoplanetary discs, or more broadly in the area of star and planet formation
3. A demonstrable record of high-impact, peer-reviewed publications in the leading astronomy journals
4. High level organisational skills, with demonstrated capacity to establish and achieve goals
5. Excellent written and oral communication skills
6. Ability to work both independently and as part of a team
7. Willingness and ability to supervise students

## **Other job related information**

- Travel, both domestic and international, may be required
- Shift work, overtime and out of hours work (including evenings, weekends and public holidays) may be required

## **Legal compliance**

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.