





# Patrick Armstrong

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## EDUCATION

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### Doctor of Philosophy (Astronomy & Astrophysics)

*February 2020 – Present*

Australian National University

### Bachelor of Science (Adv.) (Hon.)

*February 2016 – October 2019*

Australian National University

## EXPERIENCE

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### DES Builder

*July 2023 – Present*

Dark Energy Survey

- Develop & maintain the Pippin pipeline
- Internal review of DES papers
- Organise & host meetings

### MSATT Student Mentor

*February 2020 – Present*

MSATT

- Provide guidance and mentorship for highschool students completing astronomical projects

### Astronomical Tutor

*July 2019 – October 2022*

Australian National University

- Sole tutor for *Galaxies and Cosmology (ASTR3002)*

### Student Seminar Planning Committee Member

*February 2021 – October 2022*

Australian National University

- [2022]: Senior planning committee member
- [2021]: Planning committee member

### Mt. Stromlo Outreach Officer

*January 2018 – December 2022*

Australian National University

- Deliver high quality outreach experience for school groups and families

### Astronomical Consultant

*October 2018 – December 2020*

- [2020] Research for Questacon's *Australia in Space* exhibition
- [2019] Research for Penguin Random House's *Stargazer* publication
- [2018] Research and preparation for ABC's Stargazing Live 2018
- [2018] Building backend code and moderation for the Skymapper Citizen Science Project: Supernova Sighting

### Questacon Staff

*January 2015 – December 2020*

Questacon

- [2019 – 2020] Learning Programs Presenter (APS 4)
- [2016 – 2019] Questacon Assistant (APS 2)
- [2015 – 2019] Gallery Assistant (APS 1)

## AWARDS & SCHOLARSHIPS

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### Alex Rodgers Travelling Scholarship

ANU College of Science

2022

- Travel to DES Collaboration Meeting 2022

### Commendation for Excellence in Tutoring or Demonstrating

ANU College of Science

2022

- Tutoring *Galaxies and Cosmology (ASTR3002)*

### Australian Government Research Training Program

Australian National University

2020 – Present

- PhD Scholarship

### RSAA Supplementary Scholarship

Australian National University

2020 – Present

- PhD Scholarship

### ANU Science, Health, and Medicine Honours Scholarship

Australian National University

2019

- Honours Scholarship

### ANU Summer Research Scholarship

Australian National University

2016

- Develop a TNS Bulk Report API for the SkyMapper Transient Survey

### Boyapti Computer Science and Mathematics prize for first year

Australian National University

2016

- Top grades in mathematics and computing

## CONFERENCE

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### DES Collaboration Meeting

Invited Speaker

2020, 2021, 2022, 2023

*DES 5 year supernova analysis*

### ASA Annual Science Meeting

Speaker

2020, 2021, 2022, 2023

*DES 5 year supernova analysis*

### Kepler K2 Extragalactic Data Analysis Meeting

Attendee

2018

*Investigating transients in Kepler's K2 survey*

## COMMUNICATION

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### SN2017jgh: a high-cadence complete shock cooling light curve of a SN I Ib with the Kepler telescope

Over 180 items in print, radio, and online, across Australia and internationally

2021

- **Highlights:**
- Al Jazeera
- National Geographic Indonesia
- Radio Canada
- De Morgen
- ABC Science online
- The Guardian
- Space Australia
- Sky News Australia
- 2GB and on the AAP wires

## PUBLICATIONS

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### FIRST AUTHOR

### CO-AUTHOR

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