

# ADRIANO POCI

## PERSONAL INFORMATION

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<i>address</i>	OCW201, Centre for Extragalactic Astronomy, Durham University

## GOAL

To use my skills and knowledge acquired through university to continue to study the Universe as a full-time career.

## PUBLICATIONS

*Metrics* *h*-index: 8 · [NASA/ADS Link](#)

- Lead*
- Poci, A., McDermid, R. M., Lyubenova, M., Martín-Navarro, I., et al. (2022). *Monthly Notices of the Royal Astronomical Society* 514(3), pages 3660–3669. ISSN: 0035-8711. DOI: [10.1093/mnras/stac1514](https://doi.org/10.1093/mnras/stac1514)
- Poci, A. and Smith, R. J. (2022). *Monthly Notices of the Royal Astronomical Society* 512(4), pages 5298–5310. ISSN: 0035-8711. DOI: [10.1093/mnras/stac776](https://doi.org/10.1093/mnras/stac776)
- Poci, A., McDermid, R. M., Lyubenova, M., Zhu, L., et al. (2021). *Astronomy & Astrophysics* 647, A145. ISSN: 0004-6361, 1432-0746. DOI: [10.1051/0004-6361/202039644](https://doi.org/10.1051/0004-6361/202039644)
- Poci, A., McDermid, R. M., Zhu, L., and van de Ven, G. (2019). *Monthly Notices of the Royal Astronomical Society* 487(3), pages 3776–3796. ISSN: 0035-8711. DOI: [10.1093/mnras/stz1154](https://doi.org/10.1093/mnras/stz1154)
- Poci, A., Cappellari, M., and McDermid, R. M. (2017). *Monthly Notices of the Royal Astronomical Society* 467(2), pages 1397–1413. ISSN: 0035-8711. DOI: [10.1093/mnras/stx101](https://doi.org/10.1093/mnras/stx101)
- Poci, A., Kuehn, K., Abbott, T., Abdalla, F. B., et al. (2016). *Publications of the Astronomical Society of Australia* 33, e049. ISSN: 1323-3580, 1448-6083. DOI: [10.1017/pasa.2016.42](https://doi.org/10.1017/pasa.2016.42)

*Contributor* [Co-Author Subset](#)

## ACADEMIC POSTS

*2021-present* Durham University, United Kingdom

*Post-Doctoral  
Research Assistant*

Primarily research position studying the stellar Initial Mass function in external galaxies, using a broad variety of techniques. These include direct modelling of the stellar light via their spectra, the modelling of the galaxy mass via strong gravitational lensing, and the combined modelling of the stellar content via sophisticated dynamical models. The position also includes teaching duties of undergraduate students, organising group meetings, and assistance in the supervision of research students.

## EDUCATION

*2016-2021* Macquarie University, Sydney

*Doctorate of  
Philosophy*

School: Astronomy and Astrophysics

Description: The Doctorate of Philosophy program, which is a full-time research position, where I developed sophisticated modelling techniques combining stellar population and stellar dynamical measurements in a robust way for the first time. Other duties included applying for telescope time, organising group meetings, supervising undergraduate laboratories, and presenting my work at conferences. The outcome of degree was a series of papers, collated into a [thesis](#).

*2015* Macquarie University, Sydney

*Master of Research*

Grade: 82% · School: Astronomy and Astrophysics

Description: The second year of the Master of Research program is devoted entirely to research. I constructed dynamical models of galaxies to constraint the Initial Mass Function. This year involved international collaborations, conference attendance, and writing journal articles, in addition to the research and Thesis writing. The outcome of degree was a paper, and formal [thesis](#).

2014

Macquarie University, Sydney

*Bachelor of Philosophy*

GPA: 3.750 (4-pt. scale) · School: Astronomy and Astrophysics

Description: As the first year of the Master of Research program, this course extended on the content of the Bachelor of Science, with emphasis on real-world physics and applications to real research. In addition, it dealt with more advanced content, including magnetohydrodynamics, Bell's Inequality, and thermodynamics.

2011–2013

Macquarie University, Sydney

*Bachelor of Science*

GPA: 3.545 (4-pt. scale) · School: Astronomy and Astrophysics

Description: Extensively covered advanced topics in quantum physics, solid-state and particle physics, astronomy instrumentations, and astrophysical theories. I took additional non-compulsory mathematics courses.

2009–2010

Bossley Park High School, Sydney

*Higher School Certificate*

ATAR: 89.35 (99.95-pt. scale)

## ACADEMIC EXPERIENCE AND AWARDS

*Awards*

2018 · European Southern Observatory (ESO) Studentship Programme

2014 · Australian Institute of Physics Prize for the Masters of Research Program in Physics

2014 · Invitation to join, and acceptance into, the Golden Key International Honour Society

2014 · Macquarie University Summer Vacation Scholarship

2013 · Macquarie University Summer Vacation Scholarship

*Research/External Experience*

2019 · Scientific Assistant on the Observing Programmes Committee (OPC) at ESO

2019 · 12 months full-time research at ESO (Garching)

2018 · Working visit to ESO (Garching)

2018 · Working visit to MPIA (Heidelberg)

2017 · Participation in [ASA IDEA Diversity in Astronomy Workshop](#)

2017 · Working visit to MPIA (Heidelberg) and ESO (Garching)

2015 · Working visit to Oxford University

*Observing Time*

ESO VLT P109 · 6hr MUSE (PI)

*Journal Referee*[Publons Profile](#)

2022 onwards · PASA

2017 onwards · MNRAS

*Invited Talks*2022 · [Bridging Gaps Between Dynamical Probes of Galaxies Lorentz Centre Workshop](#)

2021 · MPIA Heidelberg Galaxy Coffee Seminar

2020 · [Dynamical Reconstruction of Galaxies Lorentz Centre Workshop](#)

2017 · MPIA Heidelberg Galaxy Coffee Seminar

2016 · [The Universal Problem of the Non-Universal IMF Lorentz Centre Workshop](#)*Contributed Talks*2021 · [NAM2021 - Beyond 1D](#)

- 2021 · [NAM2021 - DM Lensing](#)
- 2021 · [GalSpec2021](#)
- 2020 · [Linking the Galactic and Extragalactic](#)
- 2019 · Fornax3D Collaboration Meeting Heidelberg
- 2019 · ESO Wine and Cheese Seminar
- 2019 · Universitäts-Sternwarte München Computational Astrophysics Group Meeting
- 2019 · [The Life and Death of Star-Forming Galaxies](#)
- 2018 · Fornax3D Collaboration Meeting Padova
- 2018 · [Astronomical Society of Australia's \(ASA\) Annual Scientific Meeting](#)
- 2017 · [Astronomical Society of Australia's \(ASA\) Annual Scientific Meeting](#)

*Contributed  
Posters*

#### COMPUTER SKILLS

*Advanced*

- Physical Hardware builds
- Wolfram MATHEMATICA
- BASH
- Mathworks MATLAB
- Microsoft WINDOWS and OFFICE
- SQL
- PYTHON
- Ventana Systems UK VENSIM
- Exelis IDL
- QSUB and SLURM queue software

*Intermediate*

- L<sup>A</sup>T<sub>E</sub>X
- FORTRAN
- XML
- HTML

#### OTHER INFORMATION

*Languages*

ENGLISH · Mothertongue  
 ITALIAN · Good  
 GERMAN · A.1.1

*Interests*

Drums · Music · Running · Football · Backyard Astronomy · Reading · Programming

July 4, 2022