

# ADRIANO POCI

## PERSONAL INFORMATION

*Born in Australia*, 05 April 1993

*email* [adriano.poci@eso.org](mailto:adriano.poci@eso.org)

*phone* (M) +61 415 058 416  
(M) +49 176 24486764

*ORCID* [0000-0002-5422-7441](https://orcid.org/0000-0002-5422-7441)

*webpage* <https://adriano-poci.github.io>

*address* European Southern Observatory, Office 5.05

## GOAL

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

## PUBLICATIONS

*Metrics* Publications: 6 · Citations: 63 · *h*-index: 3 · [NASA/ADS Link](#)

*Lead* Adriano Poci, Richard M. McDermid, Ling Zhu, and Glenn van de Ven. “Combining Stellar Populations with Orbit-Superposition Dynamical Modelling: The Formation History of the Lenticular Galaxy NGC 3115”. en. *Monthly Notices of the Royal Astronomical Society* 487.3 (Aug. 2019), pp. 3776–3796. ISSN: 0035-8711. DOI: [10.1093/mnras/stz1154](https://doi.org/10.1093/mnras/stz1154)

Adriano Poci, Michele Cappellari, and Richard M. McDermid. “Systematic Trends in Total Mass Profiles from Dynamical Models of Early-Type Galaxies”. en. *Monthly Notices of the Royal Astronomical Society* 467.2 (May 2017), pp. 1397–1413. ISSN: 0035-8711. DOI: [10.1093/mnras/stx101](https://doi.org/10.1093/mnras/stx101)

A. Poci, K. Kuehn, T. Abbott, F. B. Abdalla, et al. “DESAAlert: Enabling Real-Time Transient Follow-Up with Dark Energy Survey Data”. *Publications of the Astronomical Society of Australia* 33 (2016), eo49. ISSN: 1323-3580, 1448-6083. DOI: [10.1017/pasa.2016.42](https://doi.org/10.1017/pasa.2016.42)

*Contributor* Ling Zhu, Glenn van de Ven, Ryan Leaman, Robert J. J. Grand, et al. “Disentangling the Formation History of Galaxies via Population-Orbit Superposition: Method Validation”. en. *Monthly Notices of the Royal Astronomical Society* (2020). DOI: [10.1093/mnras/staa1584](https://doi.org/10.1093/mnras/staa1584)

Sabine Bellstedt, Duncan A. Forbes, Aaron J. Romanowsky, Rhea-Silvia Remus, et al. “The SLUGGS Survey: A Comparison of Total-Mass Profiles of Early-Type Galaxies from Observations and Cosmological Simulations, to  $\sim 4$  Effective Radii”. en. *Monthly Notices of the Royal Astronomical Society* 476.4 (June 2018), pp. 4543–4564. ISSN: 0035-8711. DOI: [10.1093/mnras/sty456](https://doi.org/10.1093/mnras/sty456)

Nicola Pastorello, Duncan A. Forbes, Adriano Poci, Aaron J. Romanowsky, et al. “The SLUGGS Survey: A New Mask Design to Reconstruct the Stellar Populations and Kinematics of Both Inner and Outer Galaxy Regions”. en. *Publications of the Astronomical Society of Australia* 33 (2016/ed). ISSN: 1323-3580, 1448-6083. DOI: [10.1017/pasa.2016.29](https://doi.org/10.1017/pasa.2016.29)

## EDUCATION

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.

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

*Journal Referee*

2017 onwards · MNRAS

*Invited Talks*

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*

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](#)

*Contributed  
Posters*

2017 · [Astronomical Society of Australia's \(ASA\) Annual Scientific Meeting](#)

#### WORK EXPERIENCE

2016–2019 Sales Assistant, EDENSOR LOTTO & POST

*Edensor Lotto &  
Post*

This store is a Newsagent and Post Office combined. It also contains an outlet for national lottery,

which is only accessible to staff after strict “anti-money-laundering” and criminal history checks, and for which I have been granted access. My roles in this position include sales of lottery at the aforementioned outlet; high-volume cash handling from bill/fine payments, lottery winnings, cash withdrawals and deposits, and Western Union; newsagent sales, including all types of stationery, national and international newspapers, and magazines; handling large and/or fragile mail. I created a complete tax invoice generation and management computer program (front- and back-end) for the store, which is necessary for the businesses that hold commercial accounts for their postage.

Reference: Susanna GEORGEES · +61 404 073 344 · [edensorlottopost@gmail.com](mailto:edensorlottopost@gmail.com)

2015–2018 Lab Supervisor/Demonstrator & Marker, MACQUARIE UNIVERSITY

*Macquarie  
University*

Assisted students enrolled in undergraduate astronomy classes while they conducted their weekly experiments. This involved explaining specific astrophysical concepts without the use of jargon; demonstrating how to use the technical equipment, and troubleshooting/repairing them if necessary; marking the subsequent lab reports; providing written feedback and face-to-face consultation to the students. As a supervisor, in addition to the above roles, my additional responsibilities included mediating any issues that arose during a lesson; evenly distributing work-loads to the other demonstrators; ensuring that the lab ran on time, and that the students had safely vacated the room at the appropriate time.

Reference: Adam JOYCE · +61 2 9850 1061 · [adam.joyce@mq.edu.au](mailto:adam.joyce@mq.edu.au)

2009–2012 Labourer, DOMENIC’S VIDEO MAINTENANCE

*Domenic’s Video  
Maintenance*

Assisted in the creation and installation of automated circuits for school bell schedules; assisted in the installation of speakers and control stations for P.A. systems across school grounds; assisted in the installation of touch-type smart boards, including short-throw projectors; assisted in the installation of domestic audio/visual equipment, including external antennae.

Reference: Domenic PAGANO · +61 412 025 250 · [domsvideo@hotmail.com](mailto:domsvideo@hotmail.com)

2008–2011 Sales Assistant, DICK SMITH ELECTRONICS — Bonnyrigg, NSW

*Dick Smith  
Electronics*

Handled cash/banking, and balancing registers at the end of business hours; was responsible for store presentation, including elaborate stock presentations; was responsible for the organisation of the stock store room to maximise efficiency and improve customer service; assisted customers with advice/recommendations, explanations, and sales services. I received numerous commissions for regularly increasing weekly sales figures.

At the time of writing, this company had gone into receivership, and so a reference is not available.

2007–2009 Labourer, RICCIO KITCHENS

*Riccio Kitchens*

Assisted in the construction and installation of large kitchens, including marble and granite bench-tops; Constructed drawer sets, stand-alone cabinets, and shelving projects, including hinges and racks, for domestic and commercial purposes; assisted in the preparation of wood products, such as finishing, applying edges, and sanding.

Reference: Nunzy RICCIO · +61 424 444 800 · [sales@abovealljoinery.com](mailto:sales@abovealljoinery.com)

## COMPUTER SKILLS

*Advanced*

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

*Intermediate*

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

## OTHER INFORMATION

*Languages*

ENGLISH · Mothertongue  
ITALIAN · Good  
GERMAN · A.1.1

*Interests*

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

June 19, 2020