

Adam Batten

SWINBURNE UNIVERSITY OF TECHNOLOGY · CENTRE FOR ASTROPHYSICS & SUPERCOMPUTING

☎ +613 9214 8746 | 🌐 github.com/abatten | ✉ abatten@swin.edu.au | 🏠 abatten.github.io

EDUCATION

Doctor of Philosophy (Ph.D.) Swinburne University of Technology, Centre of Astronomy and Supercomputing	2018 - Present
Graduate Certificate of Research and Innovation Management Swinburne University of Technology, Centre of Astronomy and Supercomputing	2018 - Present
Masters of Research (Astronomy & Astrophysics) Macquarie University, Department of Physics and Astronomy	2016 - 2017
Bachelor of Advanced Science (Major: Astronomy & Astrophysics) Macquarie University, Department of Physics and Astronomy	2013 - 2015

RESEARCH EXPERIENCE

Doctoral Research - Swinburne University of Technology SUPERVISORS: A/PROF. ALAN DUFFY AND A/PROF. EMMA RYAN-WEBER	2018 - Present
Masters Research - Macquarie University SUPERVISOR: PROF. ORSOLA DE MARCO Thesis Title: <i>Too Close, Yet Too Far: Common Envelope Interaction of Triple Systems</i>	2017
Undergraduate Research - Macquarie University SUPERVISOR: DR. RICHARD MCDERMID (6 week summer project) – Stellar properties of massive galaxies from MUSE integral field spectroscopy	2015 - 2016
Undergraduate Research - Macquarie University SUPERVISOR: PROF. ORSOLA DE MARCO (5 week summer project) – Determining the binary fraction in planetary nebulae	2014 - 2015

AWARDS AND HONOURS

2018 - ASTRO3D ARC Centre of Excellence PhD Scholarship
2017 - Masters of Research 2nd Year Stipend Scholarship
2016 - Masters of Research 1st Year Session 2 Coursework Scholarship
2016 - Masters of Research 1st Year Session 1 Coursework Scholarship
2015 - Judyth Sachs PACE Prize (3rd year undergraduate capstone project prize)
2015 - J. C. Ward, FRS, Physics Prize (Top Student 3rd year undergraduate physics)
2014 - Dick Makinson Physics Prize (Top Student 2nd year undergraduate physics)

TALKS AND POSTERS

• Astronomical Society of Australia Meeting (Talk)	27th June 2018
• Mount Stromlo Observatory Student Seminars (Talk)	1st December 2017
• Macquarie University Research Frontiers Poster Session (Talk & Poster)	27th July 2017
• Macquarie University Astronomy Open Night (Public Talk)	20th May 2017

SKILLS

Languages: *Proficient:* Python, Bash
Some Experience: HTML, CSS, Markdown, Java, SQL, R
Software & Tools: UNIX, L^AT_EX, Vi/Vim, Git/Github, Jupyter Lab, Microsoft Office
Operating Systems: GNU/Linux, OSX/macOS, Windows
Astronomy Software: ENZO, MESA, YT, EsoRex, Pynbody, Matplotlib,

OUTREACH

Hawthorn Town Hall Gallery 2018

- Speaker and guide for the Astronomy and Stargazing event.
- Created a model of the JWST for the “*Deeper Darker Brighter*” exhibition.

Macquarie University Events Presenter 2015 - 2017

- Speaker and guide for the Astronomy Open Night.
- Physics and astronomy presenter for University Experience Day.
- Observatory tour guide.

Australian Astronomical Observatory (AAO) 2015

- Worked with Dr Amanda Bauer
- Created science & history posters for the Anglo-Australian Telescope visitor centre.
- Designed and created content for the AAO public website.
- world record stargazing event

Public Talks

- Macquarie University Open Night (May 2017)

TEACHING EXPERIENCE

Teaching Assistant - Astrophysics Computer Labs (3rd year undergraduate) 2017

Assignment Marking - Introductory Astronomy (1st year undergraduate) 2017

Private Physics Tutor (Year 12 Students) 2016

MEMBERSHIPS

ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions (ASTRO3D) 2018 - Present

Astronomical Society of Australia (ASA) 2017 - Present

Australian National Institute for Theoretical Astrophysics (ANITA) 2017 - Present

Macquarie University Physics and Astronomy Society (Admin and Public Outreach Officer) 2016

Macquarie University Physics and Astronomy Society (General Member) 2013-2015

CONFERENCES, SCHOOLS AND WORKSHOPS

ASA Annual Scientific Meeting (*Swinburne Uni. of Tech.*) 25th - 29th Jun 2018

Harley Wood School of Astronomy (*Swinburne Uni. of Tech.*) 21st - 24th June 2018

ASTRO3D Science Meeting (*Australian National Uni.*) 30th May - 1st June 2018

NVIDIA CUDA/OpenACC Workshop (*Swinburne Uni. of Tech.*) 27th Apr 2018

Software Carpentry Workshop - R/Git/Shell (*Macquarie Uni.*) 12th - 13th Dec 2017

Mount Stromlo Student Seminars (*Australian National Uni.*) 30th Nov - 1st Dec 2017

ASA IDEA Diversity in Astronomy Workshop (*Macquarie Uni.*) 28th - 29th Sep 2017

ASA Annual Scientific Meeting (*Australian National Uni.*) 10th - 14th Jul 2017

Harley Wood School of Astronomy (*Australian National Uni.*) 6th - 9th Jul 2017

ANITA Theory Workshop (*Uni. of Tasmania*) 9th - 10th Feb 2017

ANITA Programming School and Hackfest (*Uni. of Tasmania*) 6th - 8th Feb 2017

Mount Stromlo Student Seminars (*Australian National Uni.*) 1st - 2nd Dec 2016