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CONTACT INFORMATION	Centre for Astrophysics and Supercomputing, Swinburne University of Technology H29, PO Box 218 Hawthorn VIC 3122, Australia	Email: rdavies@swin.edu.au
POSITIONS	Swinburne University of Technology Postdoctoral Research Fellow (Level B) <i>2023 - present</i> Postdoctoral Research Associate (Level A) <i>2020 - 2022</i> Max Planck Institute for Extraterrestrial Physics PhD Student <i>2016 - 2020</i> Australian National University Research Assistant <i>Jan - Feb 2013, Jan - Jul 2016</i>	
EDUCATION	Ludwig-Maximilians-Universität München <i>2016 - 2020</i> Dr. rer. nat. (Doctor of Natural Sciences), Faculty of Physics <u>Thesis Title:</u> <i>Feedback in Galaxies During the Peak Epoch of Cosmic Star Formation Activity and Black Hole Growth</i> <u>Thesis Supervisor:</u> Dr. Natascha Förster Schreiber Australian National University <i>2012 - 2015</i> Bachelor of Philosophy (Honours), First Class Honours with the University Medal in Astronomy and Astrophysics <u>Thesis Title:</u> <i>New Perspectives on AGN Host Galaxies From Optical Integral Field Spectroscopy</i> <u>Thesis Supervisor:</u> Prof. Lisa Kewley	
SELECTED GRANTS & PRIZES	ASTRO 3D Conference & Workshop Funding (AUD\$15,000) <i>2022</i> Funding for an international scientific conference to be held near Melbourne in 2023 Gruber Foundation Fellowship (US\$25,000) <i>2021</i> Research grant awarded by to the IAU to “extremely promising early career astrophysicists” Harvard-Smithsonian Center for Astrophysics - US\$500 Travel Grant <i>2020</i> For travel from Munich to Boston to give a CfA Galaxies & Cosmology Seminar University Medal, Australian National University <i>2015</i> For exceptional academic excellence throughout an Honours Degree program Australian Gemini Undergraduate Summer Studentship <i>2013 - 2014</i> 10 week Research Internship at the Gemini South Headquarters in Chile ANU National Merit Scholarship (total value AUD\$26,000) <i>2012 - 2015</i>	
SUPERVISION AND TEACHING	Primary Supervisor: Stephanie Rowlands (Honours, Swinburne) <i>2022 – present</i> Jennifer Shi (Vacation Scholar, Swinburne) <i>Nov 2021 – Feb 2022</i> Co-Supervisor: Alma Sebastian (PhD, Swinburne) <i>2022 – present</i> Peixin Zhu (PhD, ANU) <i>2021 – present</i> Aman Chopra (Honours, ANU) <i>2021</i> <i>Aman’s thesis was awarded a HD and he now works for Geoscience Australia.</i> Member of 3 Swinburne PhD Student Review Panels <i>2021 – present</i> External Masters Thesis Examiner (QUT) <i>2022</i> Attended ASTRO 3D Workshop “Being an Effective Supervisor” <i>2021</i> Private Physics and Mathematics Tutor <i>2012, 2015 – 2016</i>	

OBSERVING PROGRAMS	ANU 2.3m Telescope (as Principal Investigator, 5 nights) <i>An Integral Field Study of Seyfert-LINER and LINER-HII transition objects</i>	
	JWST (Cycle 1, PI: Belli, 46 hours primary and 36 hours parallel) <i>The Stellar and Gas Content of Galaxies at Cosmic Noon</i>	
	ALMA (PI: Herrera-Camus, 153 hours) <i>CRISTAL: a survey of gas, dust and stars on kiloparsec scales in star-forming galaxies at $z \sim 4-5$</i>	
OTHER OBSERVING EXPERIENCE	Very Large Telescope (KMOS and SINFONI): 15 nights	
	ANU 2.3m Telescope (WiFeS): 10 nights	
	Anglo-Australian Telescope (SAMI/AAOmega): 9 nights	
	Gemini South (GeMS/GSAOI): 2 nights	
	Keck (OSIRIS): 1 night	
SERVICE & PROFESSIONAL INVOLVEMENT	<u>Committees and Expert Review</u>	
	External Expert Reviewer for JWST Cycle 2 Proposals	2023
	Distributed Peer Review of Observing Proposals (ALMA, ESO)	2022 – present
	Swinburne Time Allocation Committee for Keck (STACK)	
	Technical Secretary	2023 – present
	Postdoc Member	2021
	Swinburne Keck Room Operations Coordinator (KROC)	2021 – 2023
	Scientific Referee for A&A, ApJ, and MNRAS	2015 – present
	ASTRO 3D Junior Early Career Researcher Committee	2021 – 2022
	MPE IMPRS Student Representative	2016 – 2019
	<u>Conference/Workshop Organization</u>	
	Co-chair of the international conference “New Views on Feedback and the Baryon Cycle of Galaxies” (Healesville VIC, July 17-21 2023)	2022 – present
	Organizing Committee, ASTRO 3D Academic Applications Workshop	2021
	LOC member for the conference “In Situ View of Galaxy Formation”	2016
	SOC member, 2014 Harley Wood Winter School	2013 – 2014
CONFERENCE & SEMINAR TALKS	<u>Professional Organizations</u>	
	Junior Member, International Astronomical Union (IAU)	2022 – present
	Astronomical Society of Australia (ASA)	
	Full member	2022 – present
	Student Member	2013 – 2016
	<u>Department Seminars</u>	
	Australian National University, University of Sydney, University of NSW, and Macquarie University	October 2022
	Invited Colloquium, University of Melbourne	August 2021
	Invited AGN Webinar, IAG, USP (Universidade de Sao Paulo, Brazil)	July 2021
	Invited Colloquium, Osaka University	June 2021
	Invited Galaxies & Cosmology Seminar, Harvard-Smithsonian CfA	February 2020
	International Centre for Radio Astronomy Research (ICRAR)	December 2019
	University of NSW, Macquarie University, Swinburne University of Technology, and Australian National University	February/March 2019
	Australian National University	January 2018
	University of Sydney	December 2017
	Max Planck Institute for Extraterrestrial Physics	November 2015
	University of Cambridge and University of Oxford	July 2014
	Universidad de Concepcion Chile	January 2014

Conference Talks (with links when recorded)

Invited New Views on Feedback and the Baryon Cycle of Galaxies	July 2023
Invited Shedding new light on the first billion year of the Universe	July 2023
First Light - showcasing first results on the early Universe from JWST	June 2023
Invited American Physical Society April Meeting "Quarks to Cosmos"	April 2023
Charting the Metallicity Evolution of the Universe	September 2022
Gas2022: What Matter(s) around Galaxies	September 2022
A Holistic View of Stellar Feedback and Galaxy Evolution	July 2022
Large-Volume Spectroscopic Analyses of Galaxies in the Era of JWST	March 2022
Annual Scientific Meeting of the Astronomical Society of Australia	July 2021
EAS: S10 (Black Hole Accretion) and S7 (Quasars at the EoR)	July 2021
Past, Present and Future of Galaxy Evolution	April 2021
Annual Meeting of the German Astronomical Society	September 2020
Linking Galaxies from the Epoch of Initial Formation to Today	February 2019
Challenges at KMOS 5th Year	December 2018
The Role of Feedback in Galaxy Formation	September 2018
A Star Was Born	April 2018
Sharp Views of Galaxy Formation and Evolution	November 2017
In Situ View of Galaxy Formation	November 2016
Annual Scientific Meeting of the Astronomical Society of Australia	July 2016
A 3D View on Galaxy Evolution: from Statistics to Physics	July 2015
Multi-Wavelength Dissection of Galaxies	May 2015
HECTOR Science Workshop	April 2015
Unveiling the AGN-Galaxy Evolution Connection	March 2015
Multiwavelength Emission from Accreting Black Holes	February 2015
Australasian Conference of Undergraduate Research	September 2014
Annual Scientific Meeting of the Astronomical Society of Australia	July 2014
Annual Meeting of the Astronomical Society of Chile (SOCHIAS)	January 2014
Annual Scientific Meeting of the Astronomical Society of Australia	July 2013
Feeding, Feedback and Fireworks	June 2013
Dissecting Galaxies Using 2D Integral Field Spectroscopy	March 2013

MENTORING,
OUTREACH,
DEI

Swinburne Orientation Week	February 2023
Ran Virtual Reality tours of space for undergraduate students	
ASA "Speed Meet a Mentor"	February 2023
Participated in an online event to connect astronomers in Australia across different career stages, where I engaged as both a mentee and mentor.	
Curious Minds STEM Mentor Program	2020 – 2022
Mentored 3 female high school students from rural areas to undertake personal interest projects in astrophysics and space exploration. This included curating learning materials at an appropriate level for the students.	
School Q&A Session	2021
Engaged with a primary school class (remotely) on the ethics of space travel.	
Outreach, Max Planck Institute for Extraterrestrial Physics	2016 – 2020
- Assisted at public events including <i>Girls Day</i> and <i>Tag der Offenen Tür</i> (Open Day)	
- Ran guided tours for visiting student groups	
Student Ambassador, ANU CPMS	2013-2015
- Helped at academic events such as Science & Engineering Challenge and Maths Day	
- Represented ANU at Open Days and Careers Expos	
- Helped coordinate the ANU World Record Stargazing event in August 2015	
ANU Black Hole Society (1st Year Rep, Secretary, President)	2012 – 2015
- Ran outreach events for National Science Week and the transit of Venus	
- Coordinated a public lecture series and oversaw events planning for the society	

ASTRO 3D Press Release: Tracing 13 billion years of cosmic history by the light of ancient quasars 2023

Also released by *Science in Public*, *INAF* (Italian)

Featured articles in *COSMOS magazine*, *Innovation News Network*, *News Beezer*, *News Trackerz*, *Phys.org*, *Protect and Love Pets*, *Sci News*, *Science Springs*, *Space Daily*, *Researchnews*, *Astronieuws.nl* (Dutch), *allesoversterrenkunde.nl* (Dutch), *astroblogs* (Dutch), *scinexx* (German), *Futura* (French), *free* (French), *Global Science* (Italian), *Meteoweb* (Italian), *msn.com* (Portuguese), *Planeta* (Portuguese), *Cosmo Universitario* (Spanish), *Cronica* (Spanish), *Diario Estrategia* (Spanish), *Europapress* (Spanish), *ferplei.com* (Spanish), *teknomers* (Turkish)

Swinburne Women Astronomers feature: 2021

<https://www.swinburne.edu.au/news/2021/07/swinburne-celebrates-women-astronomers/>

ANU Student Profile: 2015

Article: <https://rsaa.anu.edu.au/study/student-profiles/rebecca-davies-0>

Interview: <https://www.facebook.com/watch/?v=10153659689781294>

AGUSS Studentship: 2014

Refraction media: <https://careerswithstem.com.au/student-exchanges/>

Blog post:

<https://aat.anu.edu.au/science/students/gemini-summer/experiences#rebecca>