

# Curriculum Vitae - Dian (Pipit) Triani

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Centre for Astrophysics & Supercomputing, Swinburne University of Technology, Hawthorn,  
VIC 3122, Australia | [dtriani@swin.edu.au](mailto:dtriani@swin.edu.au) | (+61)-4-52322801 | [dptriani.github.io](https://github.com/dptriani)

## Research Interests

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Galaxy formation and evolution; large scale structure; numerical simulations; dust; stellar population models; spectral energy distributions of galaxies; ISM; galactic chemical evolution; stellar cluster formation and dynamics

## Education and experience

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2017 - Current	Swinburne University of Technology, PhD Astrophysics Advisor: Prof. Darren Croton, Dr. Manodeep Sinha, Dr. Edward Taylor Project: <i>Modelling the SED evolution of galaxies throughout cosmic time</i>
2015 - 2016	Institut Teknologi Bandung, Msc Astronomy Advisor: Dr. Mahasena Putra, Prof. Mariano Mendez Project: <i>Temporal and spectral X-ray analysis of AGN NGC 4051</i> GPA 4.00 of 4.00
2014 - 2015	University of Groningen, Exchange Program Advisor: Prof. Mariano Mendez Project: <i>Light curve and energy spectra of NGC 4051</i>
2011 – 2015	Institut Teknologi Bandung, BSc Astronomy Advisor: Dr. Chatief Kunjaya, Prof. Mariano Mendez Project: <i>Light curve and energy spectra of NGC 4051</i> GPA 3.87 of 4.00

## Awards & Scholarship

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2018	IAU Travel Grant to attend the IAU Symposium #341
2017	Swinburne University Postgraduate Research Award
2015	Institut Teknologi Bandung Voucher Scholarship
2014	Erasmus Plus Scholarship
2013	Ganesha Prize Finalist, Institut Teknologi Bandung
2012	National Champion Scholarship Tanoto Foundation

## Academic presentations

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Sep 2019	Institut Teknologi Bandung, Bandung, Indonesia	Colloquia
May 2019	Astro3D Science Meeting, Sydney, Australia	Contributed talk
Nov 2018	IAU Symposium #341, Challenges in Panchromatic Galaxy Modelling with Next Generation Facilities, Osaka, Japan	Contributed talk
Nov 2018	Gas Fuelling of Galaxy Structures Across Cosmic Time, Barossa Valley, Australia	Contributed talk
Jun 2016	International Symposium on Sun, Earth and Life, Bandung, Indonesia	Contributed talk
Nov 2015	National Seminar on Science and Space, Bandung, Indonesia	Poster
Jun 2015	New Era of Cosmic Distance Scale, Tokyo, Japan	Contributed talk

## Professional Activities

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2020 – present	LOC Member: Harley Wood School for Astronomy (Perth, Australia)
2019 – present	ASTRO3D Equity, Diversity and Inclusion committee member
2019	SOC and LOC member: ASTRO3D Student Retreat
2018	SOC Member: ASTRO3D Annual Science Retreat (Perth, Australia)

## Outreach Activities

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2019	<i>Swinburne Open Day volunteer for Centre for Astrophysics and Supercomputing.</i> The role of the volunteer is to introduce our centre and the research that we are doing for our new and future students.
2018 - 2019	<i>AstroTour guide.</i> AstroTours are shows designed to educate and entertain audiences about astronomy. The sessions are held for students and the public.
2018	<i>In2Science mentor.</i> In2science is a partnership program that places university students as peer mentors in Victorian low socio-economic schools.

## Skills

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Operating systems	Advanced knowledge of MAC OS, Microsoft Windows Experience with Linux
Programming	Advanced knowledge of Python and C Advanced knowledge of git version control Advanced knowledge of LaTeX
Spoken languages	Indonesian: native English: fluent

## Teaching Assistant

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2018-20	Introduction to Physics (Swinburne University)
2018-19	Introduction to e-Science (Swinburne University)
2018	Discovering the Universe (Swinburne University)
2015	Introduction to Cosmology (Institut Teknologi Bandung)
2015	Astrophysics Process 1 (Institut Teknologi Bandung)
2013-15	Mathematical Methods in Astronomy (Institut Teknologi Bandung)
2012	Nature and Universe (Institut Teknologi Bandung)

## Publications

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- D. P. Triani**, M. Sinha, D. J. Croton, C. Pacifici, E. Dwek, 2020, MNRAS, 493, 2490  
*The origin of dust in galaxies across cosmic time*
- D. Triani**, D. Croton, M. Sinha, 2018, Proceedings IAU No. 341, accepted  
*Mentari: A pipeline to model the galaxy SED using semi analytic models*
- D. P. Triani**, M. I. Arifyanto, 2016, *J. Phys.: Conf. Ser.* **771** 012032  
*Search for streams in thick disk and halo of the Milky Way*
- D. P. Triani**, M. I. Arifyanto, 2016, Prosiding Seminar Sains Antariksa, 2015, 200 ISBN: 978-602-6465-01-6  
*Stellar cluster modeling using Monte Carlo method to determine initial mass function*