Curriculum Vitae - Dian (Pipit) Triani

Research School of Astronomy & Astrophysics Australian National University, Mount Stromlo Observatory Cotter Road Weston Creek, ACT 2611, Australia | Dian.Triani@anu.edu.au | (+61)-4-52322801 | <a href="mailto:detatable.com/de

Research Interests

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

Professional Employment

2021 – present	Australian National University, Postdoctoral Research Fellow
Jul – Aug 2021	Swinburne University of Technology, Internship AstroMedical innovation: Astronomy-inspired, data-driven approaches for medical imaging and diagnosis

Education

2017 - 2021	Swinburne University of Technology, PhD Astrophysics
	Advisor: Prof. Darren Croton, Dr. Manodeep Sinha, A/Prof. Edward Taylor
	Thesis: Modelling the SED evolution of galaxies throughout cosmic time
2015 - 2016	Institut Teknologi Bandung, Msc Astronomy
	Advisor: A/Prof. Mahasena Putra, Prof. Mariano Mendez
	Thesis: Temporal and spectral X-ray analysis of AGN NGC 4051
	GPA 4.00 of 4.00
2014 - 2015	University of Groningen, Exchange Program
	Advisor: Prof. Mariano Mendez
	Project: Light curve and energy spectra of NGC 4051
2011 - 2015	Institut Teknologi Bandung, BSc Astronomy
	Advisor: A/Prof. Chatief Kunjaya, Prof. Mariano Mendez
	Thesis t: Light curve and energy spectra of NGC 4051
	GPA 3.87 of 4.00

Awards & Scholarship

2019	ASTRO3D travel grant to represent ASTRO 3D at the Inclusive Astronomy
	2 conference, Baltimore.
2018	IAU Travel Grant to attend the IAU Symposium #341, Japan
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

Apr 2021	Dust in Galaxy Evolution, Online Seminar, Sumatera,	Invited seminar
1 2021	Indonesia	T '4 1 4 11
Jan 2021	CANDELS SED Fitting Telecon (Online)	Invited talk
Oct 2020	The Rise of Metals and Dust in Galaxies through	Contributed talk
	Cosmic Time, Marseille, France (Online)	
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	Contributed talk
	Galaxy Modelling with Next Generation Facilities,	
	Osaka, Japan	
Nov 2018	Gas Fuelling of Galaxy Structures Across Cosmic	Contributed talk
	Time, Barossa Valley, Australia	
Jun 2016	International Symposium on Sun, Earth and Life,	Contributed talk
	Bandung, Indonesia	
Jun 2015	New Era of Cosmic Distance Scale, Tokyo, Japan	Contributed talk
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Professional Activities

2020	LOC Member: Harley Wood School for Astronomy (Perth, Australia)
2019 - 2020	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

2019	Swinburne Open Day volunteer for Centre for Astrophysics and
	Supercomputing. 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	AstroTour guide. AstroTours are shows designed to educate and entertain
	audiences about astronomy. The sessions are held for students and the public.
2018	In2Science mentor. In2science is a partnership program that places
	university students as peer mentors in Victorian low socio-economic schools.

Media Appearances

Radio interviews:

- SBS Indonesian, 23/05/2018, "Star Gazer" (Link to the interview)
- SBS Indonesian, 23/07/2019, "Moon to Mars" (Link to interview)
- SBS Indonesian, 08/03/2020, "The discovery of the mini moon shows us just how dynamic our universe is" (Link to interview)
- SBS Indonesian, 04/08/2020, "Have you seen Jupiter, Mars and Venus? Look to the Sky! It's a very good time for gazing at the stars and planets." (Link to interview)
- SBS Indonesian, 08/01/2021, "Building new frontiers in space. Another giant step." (Link to interview)

Video Interview:

 Narasi TV, 14/06/2021, "Peta Dark Matter: Disusun Demi Menguak Misteri Semesta" ("Dark Matter Map: Crafted to Uncover the Mysteries of the Universe"). (Link to interview)

Skills

Operating Advanced knowledge of MAC OS, Microsoft Windows

systems Experience with Linux

Programming Advanced knowledge of Python and C

Advanced knowledge of git version control

Advanced knowledge of LaTeX

Spoken Indonesian: native languages English: fluent

Teaching Assistant

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)

Publications

Refereed:

- **D. P. Triani,** et al., 2021, MNRAS (in prep)
 - "Panchromatic galaxy emission from a galaxy evolution model with a self-consistent dust computing",
- **D. P. Triani,** M. Sinha, D. J. Croton, E. Dwek, C. Pacifici, 2020, MNRAS, 503, 1005. "Exploring the relation between dust mass and galaxy properties using Dusty SAGE". (Link to publication, link to preprint).
- **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". (<u>Link to publication</u>, <u>link to preprint</u>) Citation: 12 (<u>link to citation</u>).

Conference Proceedings:

- **D. Triani**, D. Croton, M. Sinha, 2020, Proceedings IAU Vol. 341, 119 "Mentari: A pipeline to model the galaxy SED using semi analytic models" (refereed)
- (Link to publication, link to prepint)
- **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" (Link to publication)
- **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"

References

Prof. Lisa Kewley
Prof. Darren Croton
Dr. Camilla Pacifici
Dr. Manodeep Sinha
Lisa.kewley@anu.edu.au
dcroton@swin.edu.au
cpacifici@stsci.edu
msinha@swin.edu.au