

International Centre for Radio Astronomy Research

Stargirls+: Helping Girls+ Reach for the Stars

Presented by: Leah Kalimeris

(she/her)

Tim Young

(he/they)

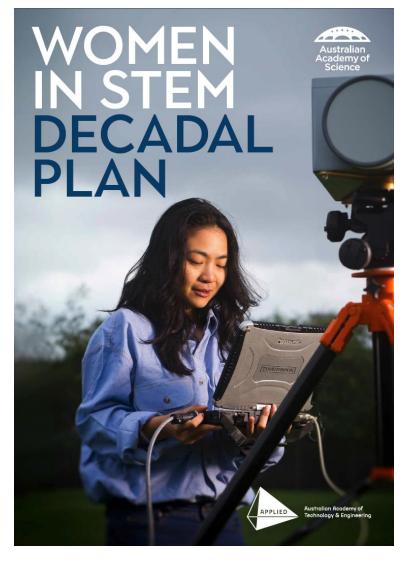




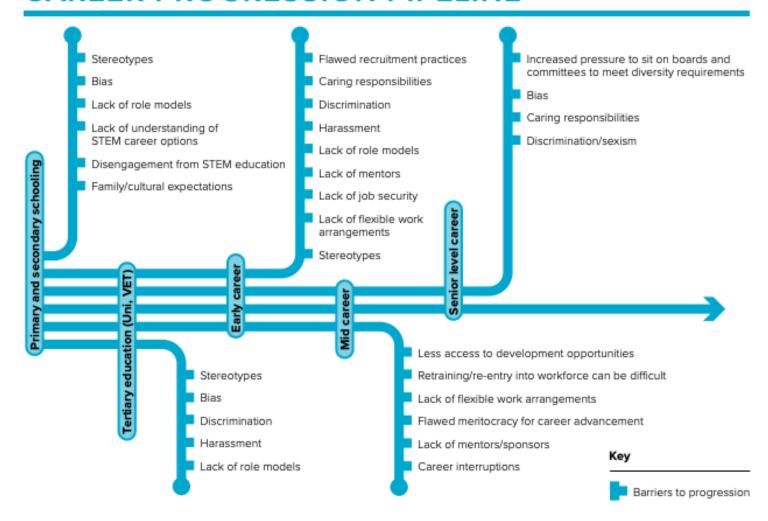




Women in STEM & the Leaky Pipeline



CAREER PROGRESSION PIPELINE





Stargirls+ STEM Camp – An ICRAR Initiative

Key objectives of the program:

- Provide opportunities for young women & non-binary students to practice STEM.
- Present role models of women at different career stages in a STEM field.
- Encourage more women & non-binary students into further
 STEM education and careers.
- Raise the profiles of the SKA, astronomical research, and related career paths in WA.





What the program involves



Hands on skill workshops





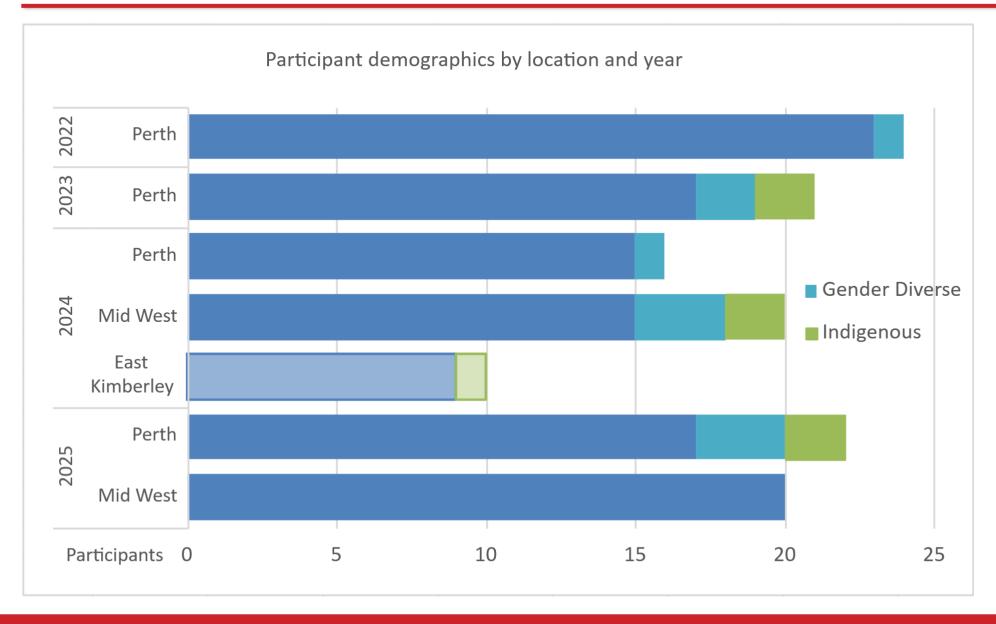


Family stargazing night



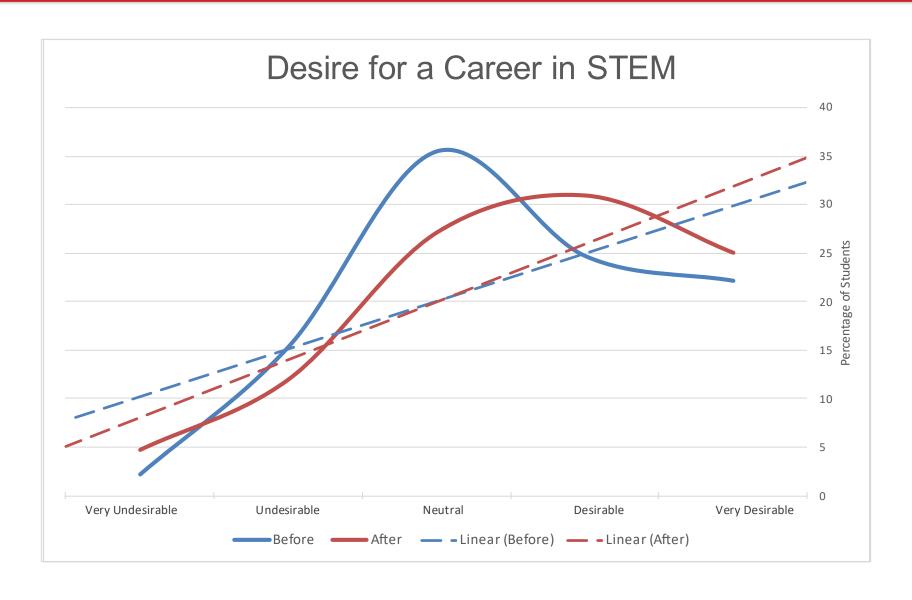


Stargirls+ by the numbers





Impact on career aspiration





Impact on overall change



31% Increase in scientific literacy



44% Increase in university intention



80% Increase in confidence



Stargirls+ lasting impressions





What left the greatest impact?

- Talks from professionals
- Speed networking session
- SPIRIT sessions
- Watching 'Beyond the Milky Way'
- Meeting like-minded students











Case Study

- Among first Work Experience cohort (model that would influence Stargirls+ design)
- Established ongoing relationship with ICRAR
- Returned to ICRAR for Masters
- Won Astronomical Society of Australia (ASA) prize for Best Masters Dissertation
- PhD candidate at Australian National University (ANU)
- Awarded 2024 Hubble Postdoctoral Fellowship



Longitudinal analysis

Surveys & one-on-one interviews:

 "...had never heard about diversity programs"

- "I didn't think someone like me could go to university"
- "[surprised at] how many career pathways there were"





What the results are telling us



Positives

- Program has value
- Done at a critical juncture of their career path
- Long term effect on confidence



What the results are telling us



What more can be done?

- Students need ongoing contact to maintain support
- How do we ensure scaffolding can exist throughout their career journey?



What can we all do?

Alumni programs – bringing the students back together

Needs to be more than a "disconnected program"

What can you do – get involved!





David Newry

Dino Spagnoli

Dylan Collard

Drew Devoreux

To everyone who has helped us out over the years

Adelle Goodwin Elisabete da Cunha Leonie Boddington Sarah Bruzzese Alana Dooley Elliott Fourie Lisa Smith Sarah Pearce Allan Wilkes Liz Williams Shane Walsh Florence Ly Amelia Fraser-McKelvie Gabrielle Herring Manasvee Saraf Shivani Bhandari **Amy Attwater** Gina Pearse Maria Kovaleva Simon Ellingsen Andrew Battisti **Greg Rowbotham** Matthew Frosst Stephen Moggach Angela Teale Hugh Roxburgh Melissa Van Dam Susmita Sett Jaiden Cook Mia Walker Tom Cox Angie Waszewski Barbara Catinella Jen Hardwick Michelle Oldham Venus Chico Mohamed Manoufali **Brent Groves** Jennylyn Hamlett Cathryn Trott Jess Broderick Nadia Steyn Plus: Clancy James Jia Yuan Zhu Natasha Hurley-Walker Nicole Thomas Jimi Green **CSIRO** Claudia Lagos Connor Bottrell Julian Carrivick Renu Sharma David Gozzard

Kat Ross

Kate Harborne

Kathleen Councillor Kirsten Fredericksen

Karen Lee-Waddell

Girls+ in Engineering

Rob Howes Pawsey Supercomputing

Robin Cook Research Centre **Ruby Wright** SKA Observatory Ryan Bunney UWA Data Institute

Sabine Bellstedt White Spark

You have changed the lives of our Stargirls+ students.

