UWA Master of Physics (Astronomy and Astrophysics)

Intro session to 2022 degree

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International Centre for Radio Astronomy Research

UWA PHYSICS

THE UNIVERSITY OF WESTERN AUSTRALIA

Government of Western Australia
Department of the Premier and Cabinet
Office of Science

ICRAR

International Centre for Radio Astronomy Research

UWA PHYSICS

Kaya! Hello! Welcome!

Wandjoo!

We acknowledge that Aboriginal and Torres Strait Islander people are Australia's first astronomers.

We acknowledge their long-standing systems of knowledge on which we continue to build and we acknowledge the Traditional Custodians of the unceded lands on which we are meeting today.

We are on Wajuk Noongar boodja, Wajuk Noongar country, and we pay our respects to their Elders past and present, and extend that respect to all First Peoples joining us here today.

We acknowledge the Wajarri Yamatji as the traditional owners of the Murchison Radio-astronomy Observatory site.

Welcome to the University of Western Australia

Housekeeping

Hybrid format: face-to-face and webinar simultaneously

On-line participants

Make sure you are muted

Post questions using Q&A function at any time

In person participants

Feel free to ask questions at any time

Presenters

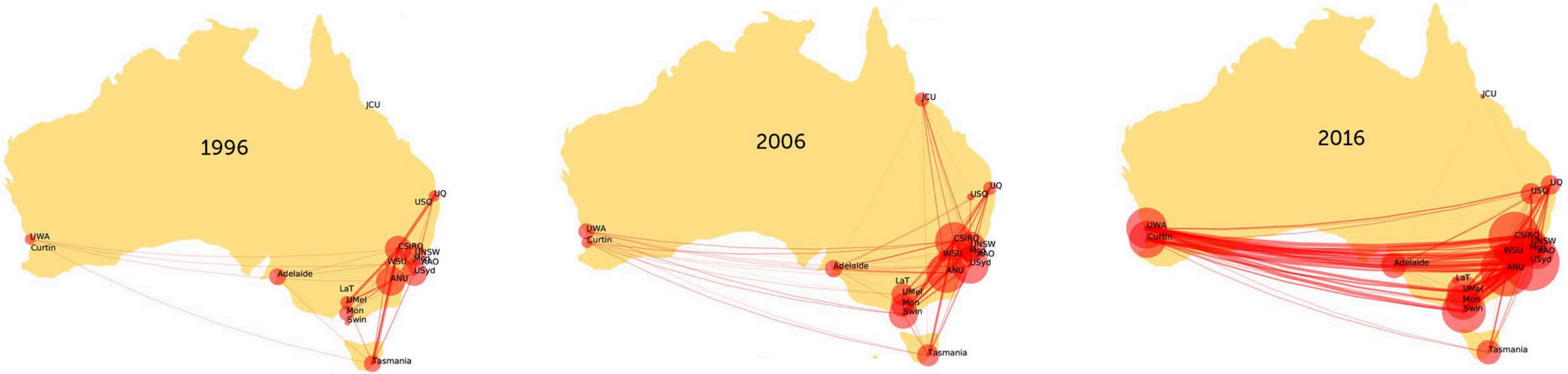
Stay close to the computer

Please repeat questions from the audience

This session is being recorded

Unanswered questions will be addressed via email after the event

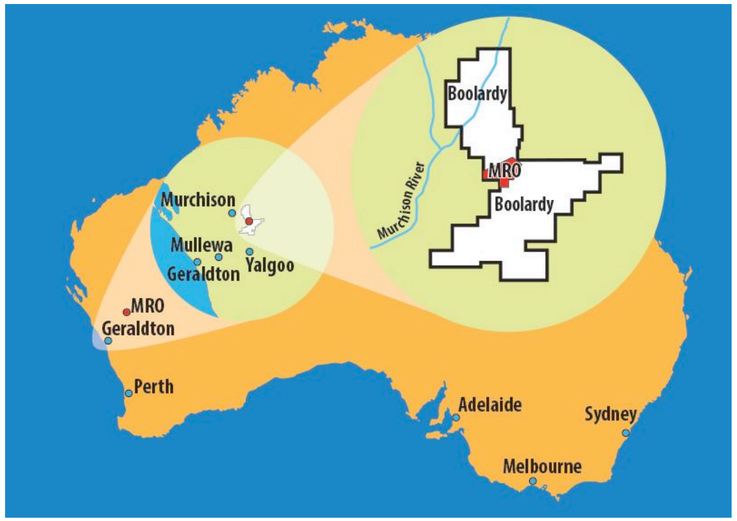
Astronomy & Astrophysics in Western Australia



Significant growth (investment and people!) in the astronomy sector in WA in the last ~15 years

Roughly one third of the Australian astronomy community is now based in WA

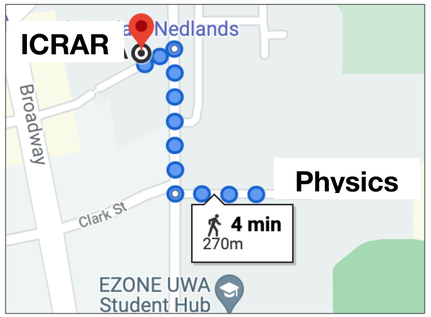
The Square Kilometre Array



Astronomy & Astrophysics at UWA

The International Centre for Radio Astronomy Research

Department of Physics



Well above world standard!

Australian Government
Australian Research Council
ERA2018

0201 Astronomical and Space Sciences

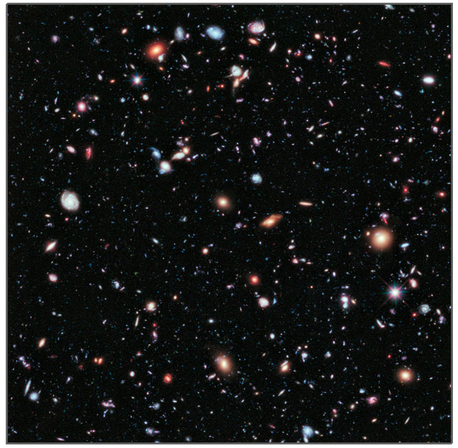
ASTRO 3D
ARC CENTRE OF EXCELLENCE FOR ALL SKY ASTROPHYSICS IN 3 DIMENSIONS

OzGrav
ARC Centre of Excellence for Gravitational Wave Discovery

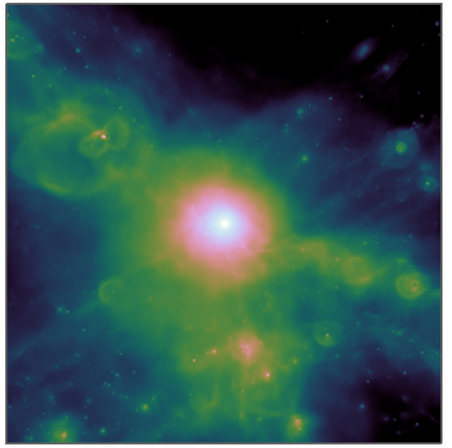
>$60M investment in Astronomy

The gas cycle of galaxies in the local Universe

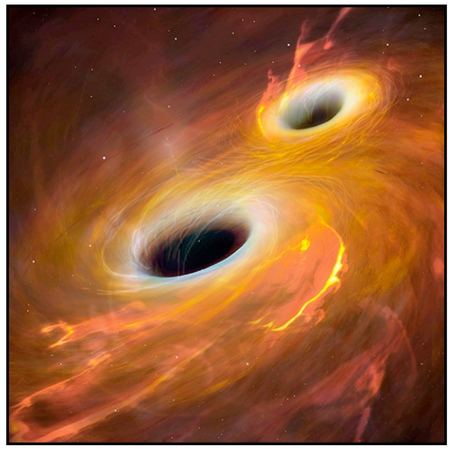
The evolution of mass and structure across time



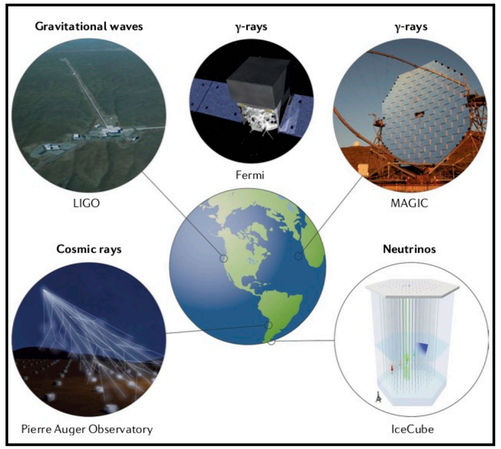
Cosmological Theory



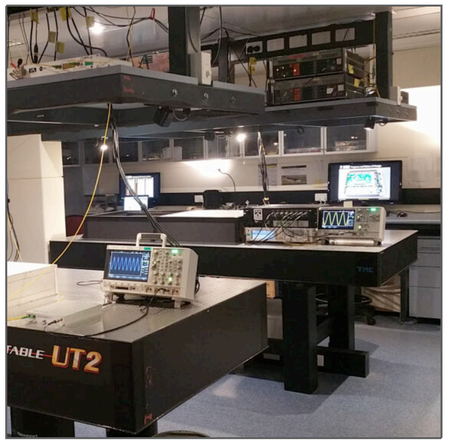
Gravitational Wave Astronomy



Multimessenger Astronomy



Astrophotonics



Master of Physics (Astronomy and Astrophysics)

Advanced Coursework Units

Galaxies and Galactic Dynamics

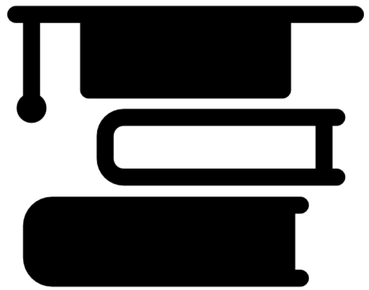
Radio Astronomy and the Interstellar Medium

Gravitational Wave and Multi-messenger Astronomy

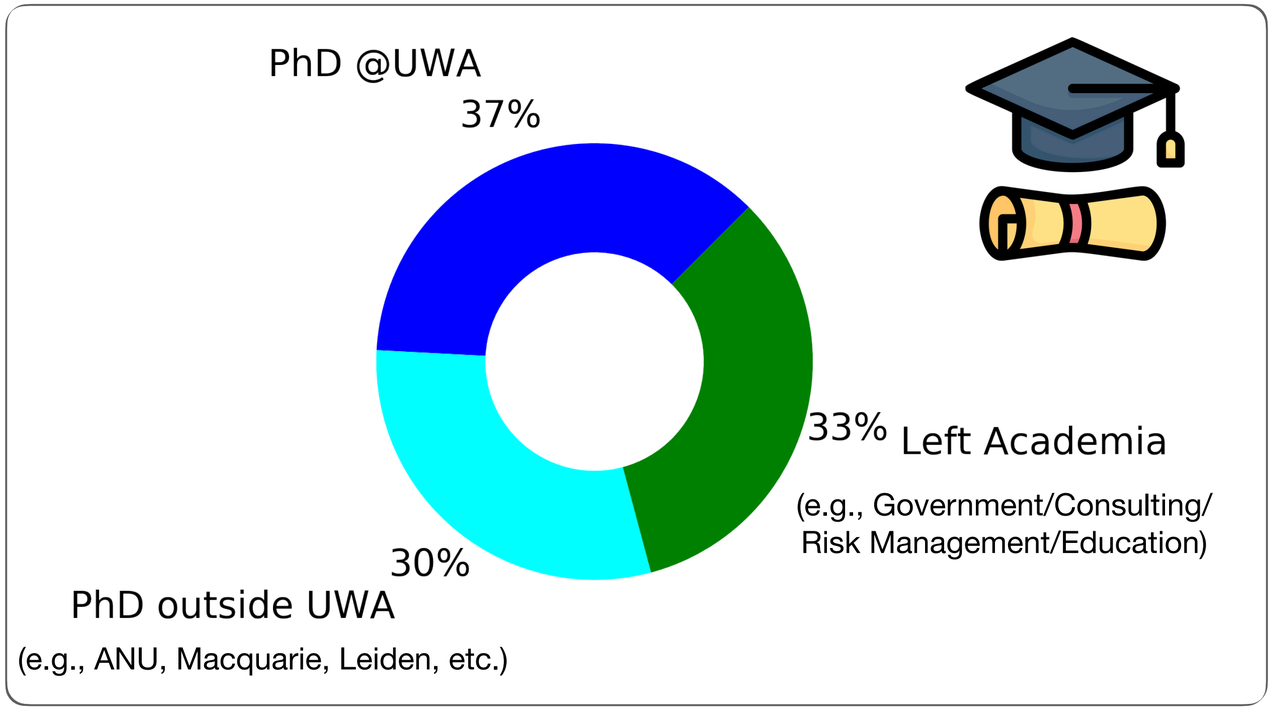
Cosmological Physics

Computational Statistics for Physics

and more…!



Transferrable skills!



Focus on student experience!

Make the most of what UWA offers to postgraduate students!

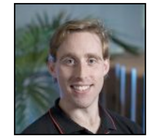
Research/Coursework

- **Desk/Desktop**
  Your place where to study, do research and interact with staff and students
- **Research group meetings**
  Discuss with your supervisor
- **Seminars/Journal Club**
  Hear the latest about the research work done
  At UWA and/or world-wide
- **Student's Plot of the Week**
  Students-only event to discuss research and socialise

Training/Support Network

- **Mentors**
  PhD student/ECR/Staff to provide one-on-one support and expand network
- **Development, Equity and Inclusion Initiatives**
  Training (Mental Health, Resilience, Writing workshops, etc)
  Wards - support network in case of confidential issues
  Anonymous feedback (on-line form or pigeon-hole)

One of the most supportive environments in Australia!

The program for today

10:10-10:30	**Enrolment and Coursework**	Matthew Young
10:30-11:00	**Break**	Ryan Turner Jennifer Hardwick
11:00-11:10	**A chat with former M(Phys) students**	Fiona Panther
11:10-12:10	**An overview of UWA's research areas**	Bruce Gendre
	Gravitational Wave Astronomy	Barbara Catinella
	Multi-messenger Astronomy	Elisabete da Cunha
	The gas cycle in the local Universe	Chris Power
	The evolution of mass and structure across time	David Gozzard
	Cosmological Theory	
	Astrophotonics	
12:10ish	**End -** light lunch for those attending in person