

Finding Your Niche

A/Professor Alan Duffy
Research Fellow, Centre for Astrophysics and Supercomputing

Life of a Galaxy Maker - Amateur

Ballyclare



Image credit: yellowtom.co.uk

Life of a Galaxy Maker – Student

Manchester



Image credit: ds-lands.com

Life of a Galaxy Maker – Explorer

Superconductors

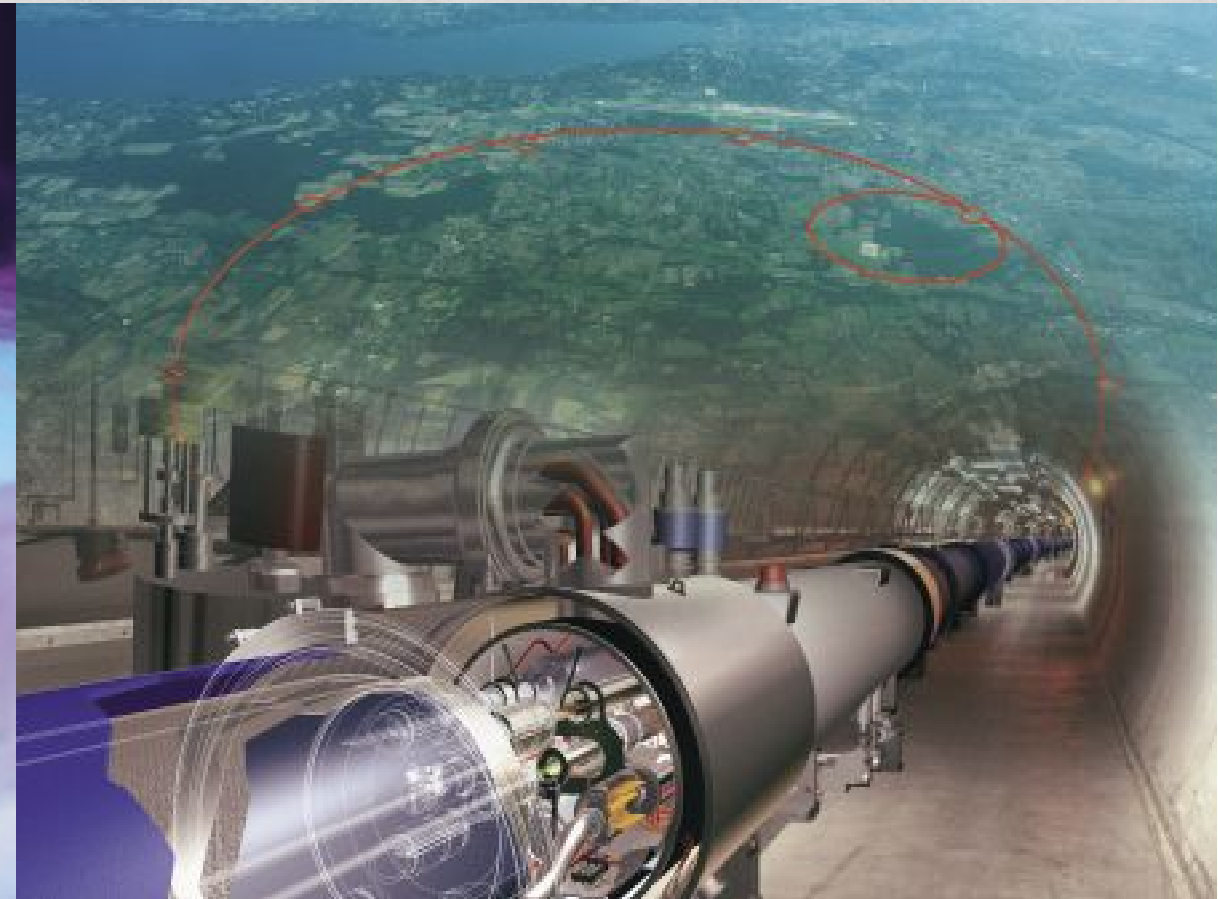
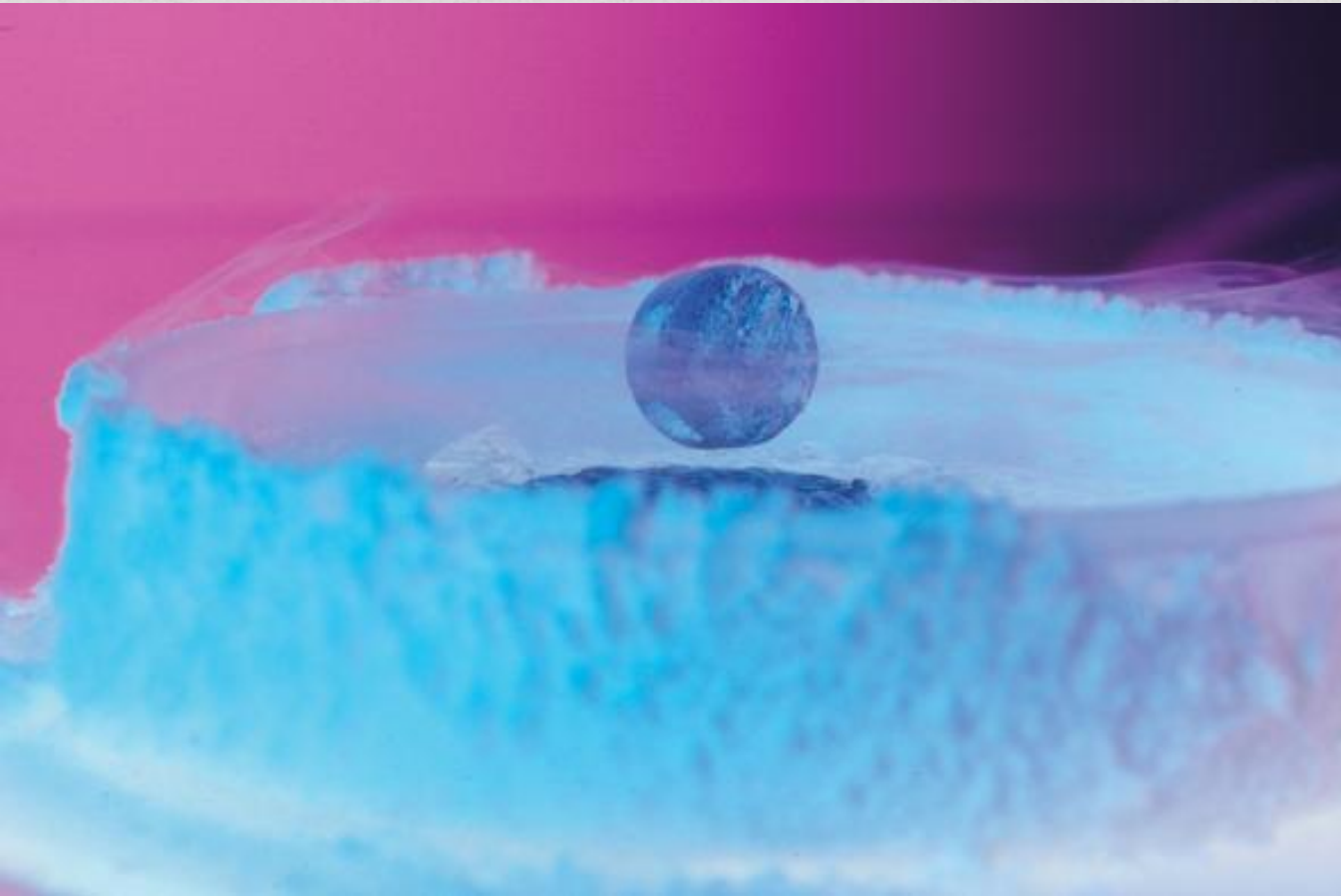


Credit: Science Daily

Life of a Galaxy Maker – Explorer

Superconductors

Particle Physics

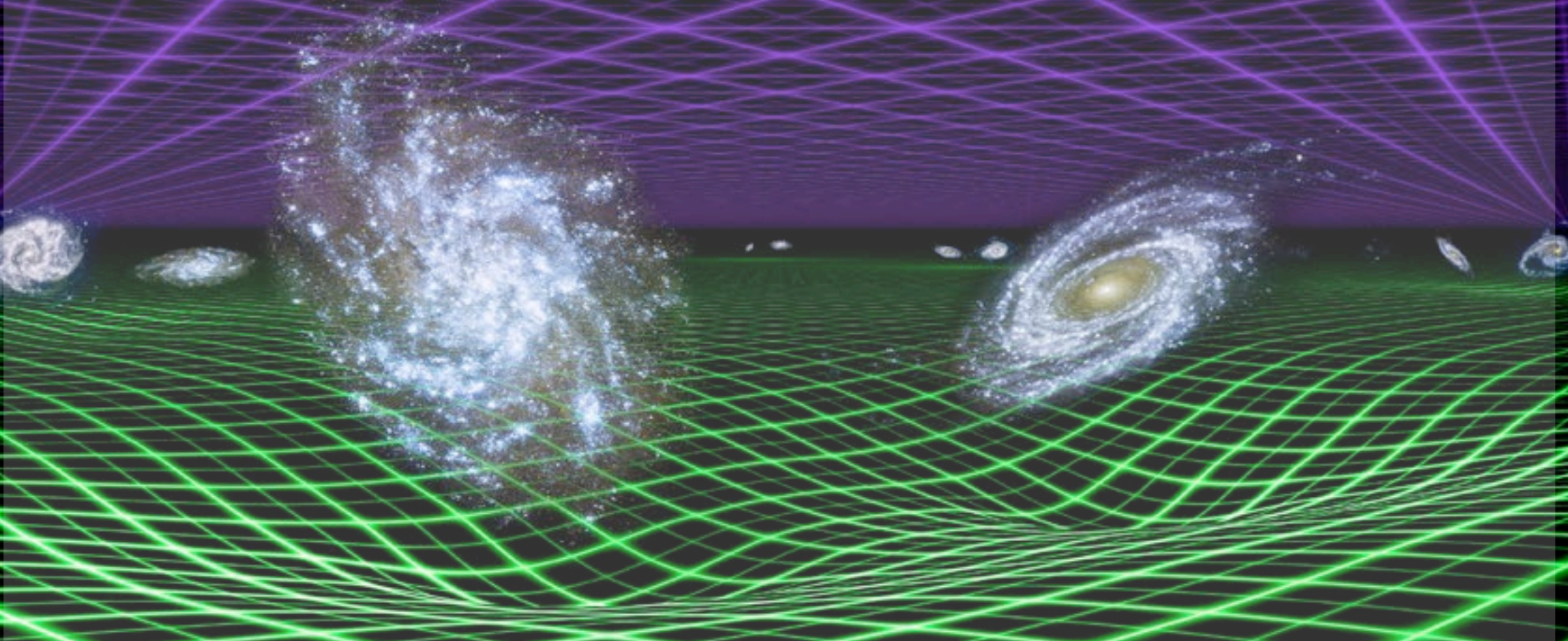


Credit: Science Daily

Credit: CMS / CERN

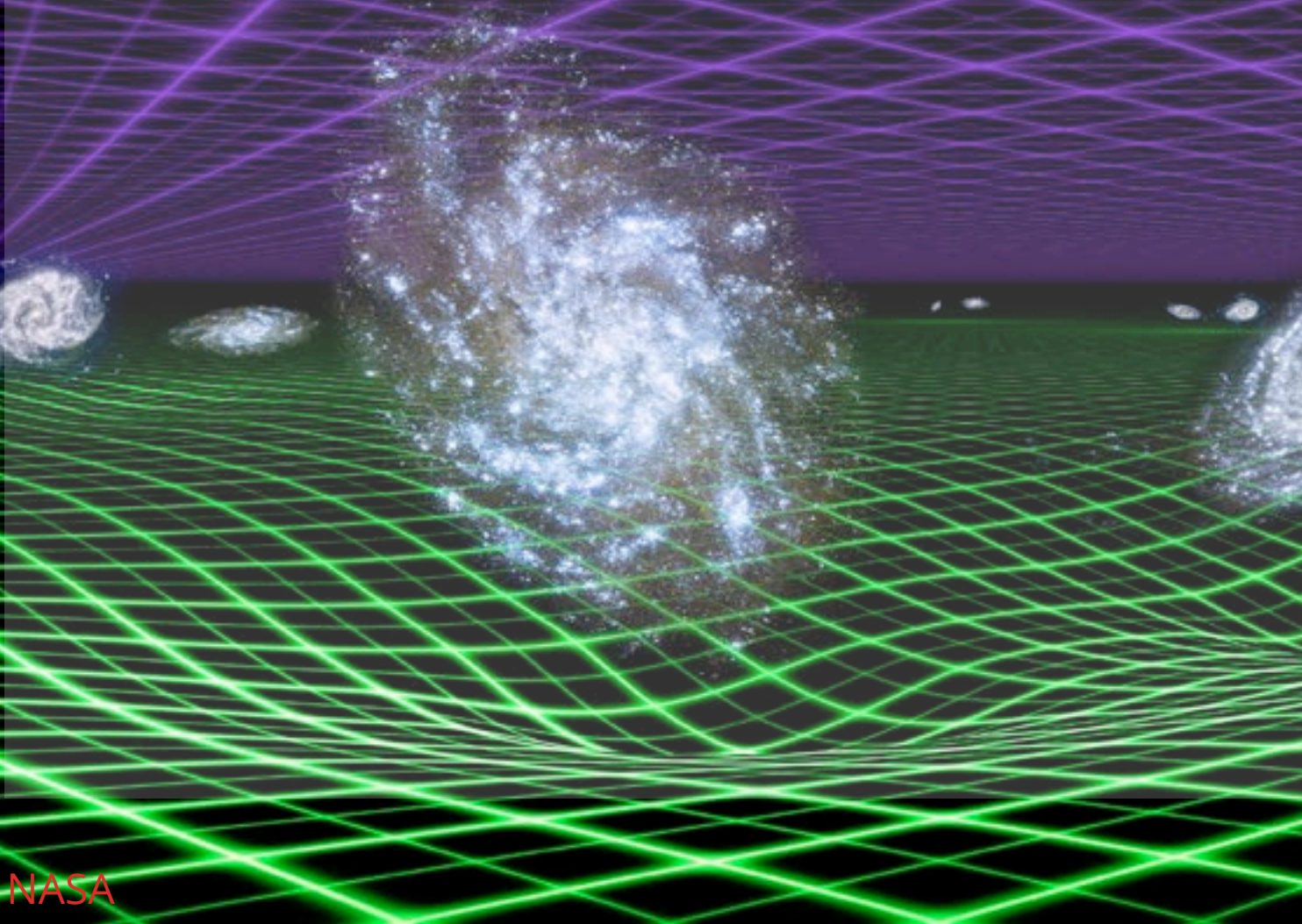
Life of a Galaxy Maker – Learner

Cosmology



Life of a Galaxy Maker – Learner

Cosmology



Credit: NASA

PhD Graduation



Life of a Galaxy Maker – Investigator



International Centre for
Radio Astronomy Research



THE UNIVERSITY OF
WESTERN AUSTRALIA
Achieve International Excellence

GIMIC

Science: Dr Alan Duffy, Dr Rob Crain and the GIMIC team

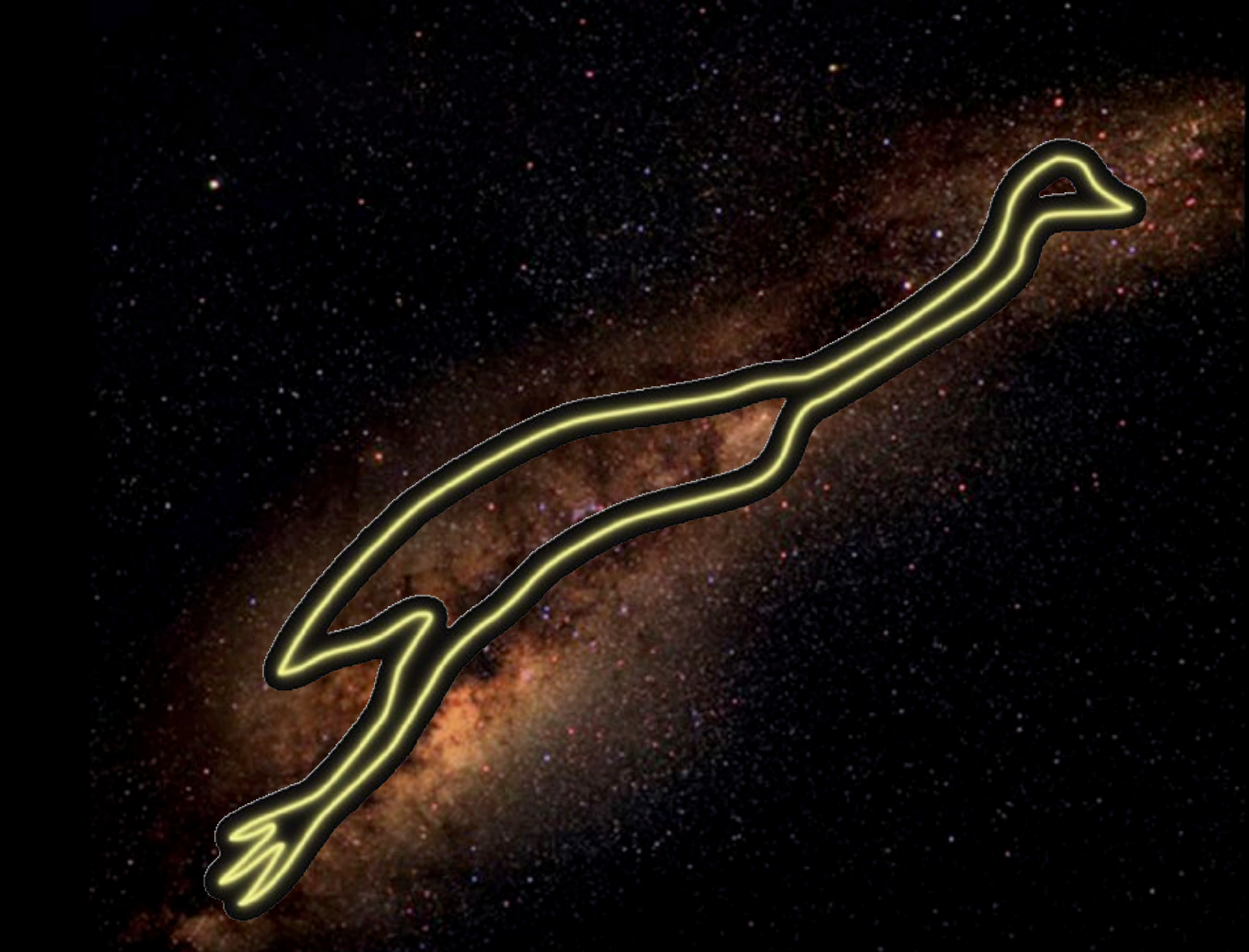
Visualisation: Paul Bourke



Life of a Galaxy Maker – Down Under



Credit: Barnaby Norris



Credit: Barnaby Norris credit: CSIRO

Astronomy Branches Out



Credit: CSIRO



Credit: ESO

Astronomy Branches Out



Credit: OzGrav



Discoveries



Credit: NASA / HST

Discoveries and spin offs

Credit: NASA / HST / CSIRO



Discoveries and spin offs

Credit: NASA / HST / CSIRO



Future



Credit: Data Science Research Institute / Swinburne

Credit: Australian Space Agency

Science at Swinburne

Applied
Mathematics

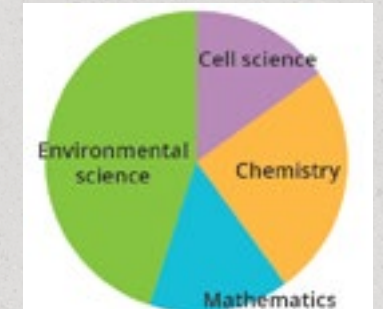
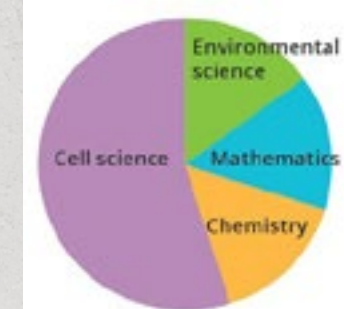
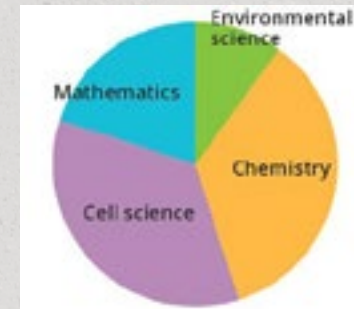
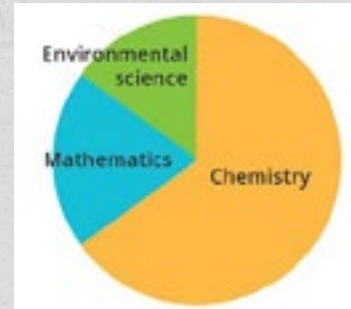
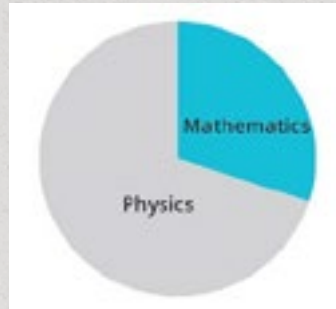
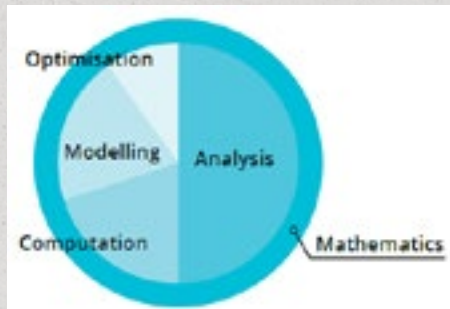
Physics

Chemistry

Biochemistry

Biotechnology

Environmental
Science



Questions?

Creating Your Own Path In STEM

Meaghan Smith

Bachelor of Science (Major – Physics, Minor/s – Computer Science and Applied Mathematics)
Undergraduate

My Journey Into Science

2000-2006
Primary School

Volcanologist
Math
(or doctor)



2007-2011
Secondary School (yr7-yr11)

Mortician
(or doctor)



2012-2013
yr12

B.Sc. - Physics &
Philosophy

My Journey Through Swinburne and Beyond

2015-2017

Starting University

B.Sc. – Physics (with
Professional
Placement)

**Communit
y**

- Volunteering and union
- Swinburne Ambassador

Support

- AccessAbility
- Student Peer Assistances

2018-2019

DST Industry Experience Placement Student –
Internship/Scholarship

Autonomous Aerial
Systems

**Professional
Skills**

- Communicating
- Networking
- Career Opportunities

2019-now

Pridmore Women in STEM Vacation
Research Scholarship

Multidisciplinary
Research

**Creating
the Future**

- Technology Development
- The business of science

Questions?