Isobel Romero-Shaw
PhD Student

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🌐 Melbourne, Australia

Education —————

PhD Astrophysics
2018 | Monash University | Melbourne | Australia

MSci Physics with integrated Foundation Year
2013-18 | Class I - 81% | University of Birmingham | Birmingham | UK

A Levels
2011-13 | A*AB | Ralph Allen School | Bath | UK

GCSEs
2007-11 | 8 A* | 3 A | Ralph Allen School | Bath | UK

Current Projects —

Constraining Eccentricity in GWTC-1 Events

Using the Eccentric Merger Rate to Measure Globular Cluster Evolution

OzGrav High Frequency Detector Design

Software —————

Languages
Python | C++ | Java | Matlab | Ada | HTML | LabVIEW | Epsilon (EOL) | CZT

Other
LaTeX | QT Creator | Papyrus | Eclipse | JIRA | Unix | Linux

Training
3 placements at Altran UK | 2 Uni programming modules (Matlab, C++) | 1 LabVIEW intensive training week

References —————

Ilya Mandel - ilya.mandel@monash.edu
Andreas Freise - adf@star.sr.bham.ac.uk
Stuart Matthews - stuart.matthews@altran.com

University & Internships

Since Mar'18	Teaching Assistant	Monash University, Melbourne, Australia
	First year Astrophysics labs	
Since Nov'18	PhD Student	Monash University, Melbourne, Australia
Jun-Oct'18	Engineering Consultant & Team Lead	Altran, Bath, UK
	Led a team of 4 graduates in developing full software project life-cycle tool	
Oct'14-Jun'18	MSci Student	University of Birmingham, Birmingham, UK
	Graduated with Class I - 81%	
Aug-Oct'17	Jr. Engineering Consultant	Altran, Bath, UK
	Contributed to the development of full software project life-cycle tool	
Jun-Aug'17	Summer Research Student	School of Astrophysics, University of Birmingham, Birmingham, UK
	Investigated integration of MIST stellar tracks into population sythesis code COMPAS	
Jun-Oct'16	Jr. Engineering Consultant	Altran, Bath, UK
	Redesigned Ada SPARK training course and developed new training package for microcontroller-embedded systems	
Oct'13-Jun'14	EPS Foundation Year Student	University of Birmingham, Birmingham, UK
	Required in absence of Mathematics A-Level	

Completed Academic Projects

2018	Gravitational Wave Detector Noise	git.ligo.org/IFOsim/MAGIC
	Developed a modular and adaptable tool for modelling frequency-domain noise at gravitational wave interferometers	
2017	Gravitational Wave Astrophysics	
	Acted as team organiser for a group of 16 students simulating a gravitational wave detection pipeline	
2016	Birds	github.com/IsobelMarguarethe/birds
	Simulated the characteristic behaviours of birds in 3 dimensions	

Academic Prizes, Scholarships & Awards

Dec'18	J.L. William International Scholarship
	Monash University
Oct'18	RTP International Postgraduate Research Scholarship
	Monash University
Aug'18	Dean's Postgraduate Research Scholarship
	Monash University - Faculty of Science
Jun'18	Nolan Merril Prize for Best Master's Project
	University of Birmingham
Mar'18	Best Project Poster
	Peer-nominated, University of Birmingham

Volunteering

Since '18	Treasurer, OSA Chapter	Monash University
2017-18	Board of Misconduct	University of Birmingham
2017-18	Secretary, Art Society	University of Birmingham
2017	*Listening to Einstein's Universe*	Royal Society Summer Science Exhibition
2016-17	Class Assistant	Teach Programming, Bath, UK
2013-18	Physics Student Rep	University of Birmingham
	Peer-nominated	