



Justin Clancy

PhD Candidate



Profile

Highly Driven and focused on learning, I am always in search of new experiences to grow business and industry experience. I am welcoming to change and able to learn quickly and effectively, adaptable to any environment. I am pursuing a career in astrophysics, currently studying my Doctor of Philosophy (Science) in the fields of Cosmology and extragalactic astronomy and astronomical instrumentation. I have had a deep passion and respect for this field of science since I was very young and have since found an interest in data science and analytics through my research and related coursework.



Work experience

present
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July 2022

Casual Tutor

The University of Melbourne, Parkville, Vic 3010

- Leading various first year physics tutorial and problem-solving classes.
- Assisting students with course content.
- Running self-organised course consultation and exam preparation sessions.
- Examination marking.
- Subjects include — PHYC10003, PHYC10004 — Subject information is available online in the University of Melbourne handbook.

June 2022
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March 2019

Casual Lab Demonstrator

The University of Melbourne, Parkville, Vic 3010

- Leading various first year physics lab demonstration classes involving practical experimentation and scientific report writing.
- Assisting students with course content.
- Examination marking.
- Subjects include — PHYC10003, PHYC10008, MULT10011 — Subject information is available online in the University of Melbourne handbook.



Contact



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Skills

- Data Science & Analytics
- Software Development
- High Performance Computing (HPC)
- Computer Science
- Machine Learning
- Teaching
- Team Management and Training
- Teamwork
- Adaptability
- Efficiency
- Problem Solving
- Decision Making and Operational Oversight
- Payroll, Rostering and other Administrative Duties



Computational Languages

Python	Proficient
R	Proficient
LaTeX	Proficient
html	Moderate
C / C++	Basic
Fortran	Introductory

June 2022



March
2019

Research Internship [Self-Organised]

Cerro Tololo Inter-American Observatory & Gemini South, La Serena, Chile

- Assisted with writing, editing and organising scientific outputs
- Assisted in the publication of "Clash of Titans: A MUSE dynamical study of the extreme cluster merger SPT-CL J0307-6225"
- Obtaining spectroscopic redshifts and galaxy velocity dispersions
- Obtaining key components of galaxy spectra to define spectral classifications and features
- Measuring galaxy cluster merger dynamics
- I also assisted in the creation of Gemini Multi-Object Spectrograph (GMOS) masks, selecting guide stars and mask slits with an introduction to setting up remote observations and telescope configurations

July 2013



March
2021

Duty Manager

HOYTS Greensborough & HOYTS Northland

- Began working as a general cinema worker at HOYTS Greensborough from 06/2013 — 12/2015, obtained a position as a supervisor from 12/2015-01/2018 and promoted to a duty manager in January 2018. After extended travels between July 2019 — December 2019 I returned to a duty manager position at Hoyts Northland.
- I responded to customer concerns and complaints in a confident, calm and knowledgeable manner, always maintaining composure and a professional demeanor.
- Initiated plans to improve customer relations, quality standards, service efficiency and overall patron experience.
- Maximized customer service by training staff, overseeing operations and resolving issues in a timely manner.
- Organized local area marketing and improving social media presence and outreach, leading the social media for both locations during time as duty manager.
- Assisted with general maintenance on hardware and software across the workplace from troubleshooting and repairing Point of Sale (POS) machines to replacing XENON cinema projector globes.
- Completed staff rostering, performing weekly projections and overseeing payroll.
- Assisted in hiring campaigns and interview processes.



Languages

English

Fluent



Education

Present



2022

Doctor of Philosophy (Science)

The University of Melbourne, Parkville, VIC 3010, Australia

Research Topics:

- Cosmology and Extragalactic Astronomy.
- Astronomical Instrumentation.
- Time-Domain Astronomy.

Research Publications:

- Associated ArXiv Papers.
- "Polarization fraction of *Planck* Galactic cold clumps and forecasts for the Simons Observatory".

2021
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2019



Master of Science (Physics — M-SCIPHY)
The University of Melbourne, Parkville, VIC 3010, Australia

- Research and Achievements:**
- Thesis Topic — Measurement of Beam Functions with Compact Objects for the Simons Observatory.
 - Recipient of the Klein Prize in Experimental Physics.
 - Graduation with distinction.

2018
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2016



Bachelor of Science (B-SCI)
The University of Melbourne, Parkville, VIC 3010, Australia

- Course Major:**
- Major in Physics.



Certifications



- CPR First Aid Training**
- HLTAID001 Provide Cardiopulmonary Resuscitation.
 - HLTAID002 Provide Basic Emergency Life Support.
 - HLTAID003 Provide First Aid.



Responsible Service of Alcohol (RSA)

2015



ICT20115
Certificate II in Information, Digital Media, and Technology.

2015



ICT30115
Certificate III in Information, Digital Media, and Technology (partial completion).