

Ollie Pye

MPhil Candidate

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Education

- 2021 – Current **Master of Philosophy (Astrophysics)**, *Queensland University of Technology*.
Investigating galaxy evolution by way of SED analysis
- 2016 – 2019 **Bachelor of Science (Physics)**, *Queensland University of Technology*.
GPA 6.7 on a 7-point scale
- 2009 – 2015 **Queensland Certificate of Education (QCE)**, *Ipswich Grammar School*.
OP1

Academic Achievements

- 2020 VRES, Queensland University of Technology
- 2019 Dunlap Summer School, University of Toronto
- 2019 Summer Research Scholar, Monash University
- 2018 Dean's List Award, Queensland University of Technology
- 2017 Short Term Exchange, University of Cambridge
- 2016 QUT Dean's Scholar and Vice-Chancellor Scholarship recipient
- 2015 Ipswich Grammar School Captain
- 2015 Australian Defence Force Long Tan Youth Leadership and Teamwork Award
- 2015 National Youth Science Forum (NYSF)

Outreach

- 2021 Presenter - Queensland Virtual STEM Academy
- 2021 Presenter - Redeemer Lutheran College
- 2018, 2019, 2021 Presenter - QUT STEM Camp

Conferences

- 2021 Astronomical Society of Australia Annual Scientific Meeting
- 2021 ANITA Summer School and Workshop

Sporting Achievements

- 2021 VFL Listed Umpire
- 2019 QAFL Grand Final Umpire
- 2018 QWAFL Grand Final Umpire

Employment

- 2021 – Current **Sessional Academic, Queensland University of Technology.**
- PVB220 - Cosmology
 - PVB101 - Physics of the Very Large - Prac Demonstrator
 - SEB104 - Grand Challenges in Science (Space Exploration)
 - EGB113 - Energy in Engineering Systems - Prac Demonstrator
- 2019 – 2021 **Data Analyst, Queensland Curriculum and Assessment Authority (QCAA).**
- Worked in the data team to deliver the new ATAR system in QLD
- Developed the code base to calculate Year 12 scores for the new ATAR system using Rasch Analysis
 - Developed and deployed an R-Shiny app for the state wide standards setting exercise
 - Investigated the late birthday effect using historical NAPLAN data
- 2017 – 2019 **Senior STEM Ambassador, Queensland University of Technology.**
- As a STEM ambassador I work in a team that presents STEM related workshops to high school students with the aim of developing their interest in the STEM field
- Engage students when presenting challenging topics
 - Ensure focus is maintained during the workshop
 - Communicate effectively with colleagues to ensure the students are provided with the best learning environment possible
- 2017 – Current **AFLQ Field Umpire, AFL Queensland.**
- I work with a team of umpires to ensure the safety and fair play of AFL competitions in Queensland
- Clear communication skills to ensure the game runs smoothly
 - Concentrate under demanding conditions (both physically and mentally)
 - Maintain responsibility for the care of the players during matches
- 2019 **Research Intern, Monash University.**
- Analysed the simulated life cycle of giant helium stars using python
- Used Object Orientated programming to analyse data
 - Drew meaningful conclusions from extensive data sets
 - Visualised data for suitable audiences
- 2017 – 2018 **Education Development, Maths Thrills.**
- At Maths Thrills I worked externally, developing maths worksheets and summaries of mathematical ideas.
- Develop explanations of complex mathematical concepts to be easily understood by students
 - Develop worksheets to consolidate students understanding of mathematical ideas
 - Communicate effectively with colleagues to ensure tasks are completed on time
 - Edit entire text book in word to ensure uniform fonts, styles and dimensions were adhered to
- 2017 – 2018 **Participation Assistant, Queensland University of Technology.**
- I worked with a visually impaired student during classes to ensure that they are included and participate in a positive learning environment
- Effectively communicate what is visually presented in class
 - Ensure the student felt included and contributed to the class
 - Precise articulation when communicating

Volunteer Placements

2019 **President, QUT Physics Society.**

The QUT Physics Society is a QUT student society with a focus on developing physics and non physics students professionally

- Delegate tasks to the executive team
- Oversee the organisation of events
- Meet with department heads to organise funding
 - Trivia nights
 - Programming workshops
 - Astronomy nights

2016 – 2019 **Member, Girls in Engineering Making Statements (GEMS).**

GEMS is a QUT student society with a focus of empowering women in engineering

- Organise fundraisers
- Assembled birthing kits for developing nations in Africa
- **2017 Mentor Program Director**
 - Elected to direct the mentor program in 2017
 - Matched mentors and mentees with a focus on the pairs having common interests
 - Organise guest speaker events