

Patrick Yates

Tasmania • Australia
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Education

University of Tasmania

Bachelor of Science with Honours (Astrophysics) - In Progress

Tasmania

2016 – Present

University of Tasmania

Bachelor of Science, Double Major in Mathematics and Physics

Tasmania

2013 – 2015

University of New England

Diploma of Modern Languages (French)

New South Wales

2012 – 2015

Rosny College

ATAR of 98.1

Tasmania

2011 – 2012

Academic Roles

University of Tasmania

Undergraduate Assignment Marker

Tasmania

2016 – Present

- Marked first-year Physics assignments and collated summaries for unit coordinators.

University of Tasmania

Honours Student

Tasmania

2016 – Present

- Assisted my astrophysics research group colleagues with setting up and running PLUTO simulations on distributed computing clusters, including producing documentation describing the process.
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Non-Academic Roles

Muffin Break Eastlands

Barista, Front-of-House & Kitchen

Tasmania

2011 – Present

- Developed excellent leadership, interpersonal, time management, and conflict resolution skills.
- Responsibilities included training new employers, delegating tasks, and effectively coordinating a team to maximise productivity.

St Mark's Anglican Church

Youth Group Leader

Bellerive, Tasmania

2010 – Present

- I am a leader for the Grades 7 – 12 Youth Group, and have lead the Grades 3 – 6 Youth Group previously.
- As part of this role I have also helped with mission/outreach events for Bayview, a nearby affordable housing facility.

St Mark's Anglican Church

Worship Band Member

Bellerive, Tasmania

2012 – Present

- I lead the worship band, playing piano fortnightly for the 6pm service.

Anglican Camping Tasmania

Camp Leader

Tasmania

2013 – 2016

- I have led the Zest Anglican Youth Camp for primary school children (grades 4 – 6), held in January each year.

St Mark's Anglican Church

Website Designer

Bellerive, Tasmania

2009

- I built a website for St Mark's Anglican Church.
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Professional Development

- Poster presentation, 2016 "Galaxy Transformations" international scientific conference September, 2016

P. Yates, M. Krause, S. Shabala, "The feedback efficiency of restarting jets from Active Galactic Nuclei"

- Selected to attend the National Youth Science Forum (NYSF), Session B in Perth 2012
- Selected to attend the EuroScience Open Forum in Dublin through the NYSF International Program 2012

Awards

University:

- Dean's Honour Roll for the Faculty of Science, Engineering and Technology 2015
- Dean's Roll of Excellence for the Faculty of Science, Engineering and Technology 2013, 2014
- Top score in KIT206, Software Design and Development 2014
- Awarded the Dr. Peter Smith Scholarship in Physical Sciences 2014 – 2015

College:

- Outstanding ATAR Score Certificate 2012
- Subject Achievement Award in Computer Science, Rosny College 2012
- Subject Achievement Award in Physical Sciences, Rosny College 2011
- Subject Achievement Award in French, Rosny College 2011
- Subject Achievement Award in Religion, Rosny College 2011

Technical Skills

Programming Languages:

C, L^AT_EX, MATLAB, Python, Shell script: Used throughout my Bachelor of Science with Honours degree.

Java: Used in first-year programming unit KIT102.

C#: Used in second-year programming unit KIT206 as well as many personal projects including game development.

CSS, HTML, Javascript: Used in designing St Mark's Anglican Church website, as well as personal projects.

Computational Fluid Dynamics: using the numerical hydrodynamic simulation code PLUTO for Honours research.

General IT Skills: web design (St Mark's Anglican Church website), server management (personal projects), operating systems (Linux, macOS, Windows)

Transferable Skills

Leadership: I have developed my leadership skills through:

- Training new employers and coordinating staff responsibilities at Muffin Break Eastlands (2011 – Present).
- Leading groups at the St Mark's Anglican Church Youth Group (2008 – Present) and Worship Band (2012 – Present).
- Leading groups at the Zest Anglican Youth Camp (2013 – 2016).

Teamwork: I have developed my teamwork skills through:

- Collaboration and weekly meetings (including presentations) with the astrophysics research group at the University of Tasmania.
- More than 25 group work projects during my Bachelor of Science with Honours degree, including laboratory components.

Presentations: I have given presentations on many occasions, including:

- Numerical simulations in astrophysics group meetings, UTAS (2016) 4 Presentations
- Honours project presentations (2016) 3 Presentations
- B.Sc.(Hons) unit presentations (2014 – 2016) 4 Presentations
- Rotary Clubs for NYSF (2011, 2012) 7 Presentations

Other

French: Intermediate proficiency

Piano: AMEB Grade 7

Taekwondo: Black Belt 1st Dan

Qualifications:

- Completed the Aquatic Safety in a Dynamic Environment (ASIDE) Qualification (2016)
- Certificate III in Retail (2013)
- Working With Vulnerable People Card (current)