

# NICHOLAS FARROW

Web version, email for full text!

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## EMPLOYMENT

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**Deloitte Summer Vacation - Analytics & Cognitive Consulting** 2018

Project in large scale automation of database file transfer systems.

**ResearchFirst Project** Dec 2017 - Jan 2019

Monash University School of Physics & Astronomy Scholarship Project

Research on *The mass distribution of Galactic double neutron stars*, published 2019.

**Ski Instructor**

Falls Creek Snowsports School

2013 - 2019 part time

Niseko International Snowsports School (Japan)

2015/2016 season

**Private Academic Tutoring**

Physics for Graduate Medical School Admissions Test (GAMSAT)

2019

Year 10 & 12 Mathematics

2016-

## SKILLS

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**Advanced Python** - particularly in Bayesian inference implementation using nested sampling and MCMC, data scraping (web), menial task automation.

See portfolio: [git.nickfarrow.com](https://git.nickfarrow.com)

**Adept Mathematics and Physics** - strong ability to transfer skills into non-science fields; directly through applied mathematics, or indirectly through analytical, logical & problem solving strategies.

**Computational** - modelling, simulation, and data representation. Experienced in **Python**, **FORTRAN**, **Git**, **HTML**, **CSS**, **L<sup>A</sup>T<sub>E</sub>X**, **shell**, **Mathematica** and numerous Amazon Web Services (AWS) products. High knowledge of cryptocurrency & blockchain protocols, and markets 2013-. Expert IT problem solving with great awareness of available tools.

**Linux & distributed computing systems** - Proficient with **GNU/Linux** environment and remote server access. Parallel computing at Laser Interferometer Gravitational-Wave Observatory (LIGO), specifically using **HTCondor** (2017-).

**Teaching** - Extensive experience in teaching & instructing both adults and children, in individual and in group scenarios.

**Presentation** - Trained in public speaking and debating, passionate for presentation opportunities. Previously have presented to online teleconferences for LIGO Compact Binary Coalescence group.

## PUBLICATIONS

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Nicholas Farrow, Xing-Jiang Zhu, and Eric Thrane, *The Mass Distribution of Galactic Double Neutron Stars*, The Astrophysical Journal 876.1. [arXiv:1902.03300](https://arxiv.org/abs/1902.03300) (free) 2019

Nicholas Farrow, Isobel M Romero-Shaw, Simon Stevenson, Eric Thrane, and Xing-Jiang Zhu, *On the Origin of GW190425*. (under review) 2019

## EDUCATION

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**Bachelor of Science - Advanced Research, Monash University** *2016-*  
Currently completing Honours in Physics. Majoring in Physics, and Mathematics.  
ResearchFirst Project Scholarship *2017*

**Brighton Grammar School**  
ATAR 96.55, Academic Scholarship. *2010-2015*

## QUALIFICATIONS

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Australian Professional Snowsports Instructors Level 1 *2013*  
Working With Children *2015*  
Responsible Serving of Alcohol Certificate *2014*

## COMMUNITY

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Club Committee Member - Monash Snowsports Club. *2016 & 2017*  
Member - Australian Alpine Club Falls Creek.  
Camp Leader - Sony Childrens Camp for students with a mild to moderate intellectual disability (*2015*).  
Volunteer from *2011-2014*.

## LANGUAGES

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English - Proficient in high level academic style.  
Japanese (elementary proficiency).

## INTERESTS

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Skiing.  
In addition to Physics & Mathematics, also great passion for Biology, Chemistry and all science!  
Programming & Computer Science.