

# NICHOLAS FARROW

29 Imbros Street, Hampton Victoria, Australia  
nick@nickfarrow.com ♦ [nickfarrow.com](http://nickfarrow.com)

## EMPLOYMENT

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**Deloitte Graduate - Analytics & Cognitive Consulting** *2020-*  
Implementation of robotic process automation, and database feature analytics within the telecommunications industry.

**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** *2013 - 2019 part time*  
Falls Creek Snowsports School  
Niseko International Snowsports School (Japan) *2015/2016 season*

**Private Academic Tutoring** *2019*  
Physics for Graduate Medical School Admissions Test (GAMSAT)  
Year 10 & 12 Mathematics *2016-*

## SKILLS

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**Computational** - Builder and analyst. Excelling in system design, modelling, and simulation. Experienced in Python, C, PHP, Git, JavaScript, Solidity, HTML, CSS, FORTRAN, L<sup>A</sup>T<sub>E</sub>X, shell, Mathematica, and keen to learn more. Expert problem solving with awareness of available tools. Comfortable building solutions quickly under time pressure. See my portfolio: [git.nickfarrow.com](http://git.nickfarrow.com)

**Bitcoin** - Extensive knowledge of Bitcoin and other cryptocurrency protocols, markets, security, and cryptography *2013-*. Background in developing payment gateways with [SatSale](#) (on-chain and Lightning nodes).

**Python** - Advanced development of intricate software with a philosophy of simplicity and modularity. Most recently [SatSale](#), previously with algorithmic trading, Bayesian inference using nested sampling, data scraping (web), and menial task automation.

**Finance** - Algorithmic trading and on-chain research within cryptocurrency markets. Grasp of fundamental strategies and instruments (futures, perpetuals, options, pools).

**Mathematics and Physics** - Implementation of academic research. Mathematics applied directly, or indirectly through analytical, logical & problem solving strategies.

**Linux & distributed computing systems** - Proficient with GNU/Linux environment, remote server access, system maintenance, customisation and operations. Parallel computing at Laser Interferometer Gravitational-Wave Observatory (LIGO), specifically using HTCondor (*2017-2019*).

**Teaching** - Extensive experience in teaching & instructing both adults and children, in individual and in group scenarios. Enthusiastic in presenting passions, sharing knowledge and ideas.

**Presentation** - Trained in public speaking and debating, passionate for presentation opportunities. Previously have presented to online teleconferences for LIGO working groups, as well as public physics talks for varying audiences.

## 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](#) 2019

Isobel M Romero-Shaw, **Nicholas Farrow**, Simon Stevenson, Eric Thrane, and Xing-Jiang Zhu, *On the Origin of GW190425*, Monthly Notices of the Royal Astronomical Society: Letters, Volume 496, Issue 1. [arXiv:2001.06492](#) 2020

## EDUCATION

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**Bachelor of Science - Advanced Research, Monash University** 2016-  
Honours in Physics (HIIA). Majors in Physics and Mathematics.  
Third year GPA=3.5, WAM=79.24.  
ResearchFirst Project Scholarship 2017

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

## QUALIFICATIONS

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Blue Prism Accredited Developer 2020  
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 variety of contexts. For example, I may use detailed scientific style writings for analyses, argumentative structures for ideas, and 'plain English' for documentation or teaching.  
**Japanese** - Elementary proficiency.

## PASSIONS

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Skiing & sometimes snowboarding..  
Most areas of science, notably physics, astrophysics, computer science.  
Hobbyist programming & side projects.  
The future of money and its implications for finance, humanity and politics.  
Always excited to learn new concepts and skills, with many interests and not enough time.