



Sean Richards

PHD STUDENT · DEPARTMENT OF PHYSICS

The University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

✉ ordinarystarman@gmail.com — 🌐 www.ordinarystarman.com — 📧 krytic
🐦 @ordinarystarman — 🏠 she/they

EDUCATION

The University of Auckland

Auckland, New Zealand

PHD PHYSICS

September 2021 - Present

- Supervisors: Assoc. Prof. Jan (JJ) Eldridge & Dr Héloïse Stevance
- Thesis: *The Next Generation: Refining the Standard Population Synthesis Model to Better Predict Stellar Population Properties*
- Expected Completion Date: **August 2024**

The University of Auckland

Auckland, New Zealand

MSc PHYSICS

March 2020 - March 2021

- Supervisor: Assoc. Prof. Jan (JJ) Eldridge
- Thesis: *The Missing Mergers: Modelling the observed binary neutron-star population and their mergers*
- Awarded with **Honours (First Class)**

The University of Auckland

Auckland, New Zealand

PGDIPSci PHYSICS

March 2019 - February 2020

- Supervisor: Dr Nicholas Rattenbury
- Dissertation: *The University of Auckland Ground Station One*
- Technical report: *The University of Auckland Ground Station One: System Overview*
- Technical report: *Ground Segment Support for APSS-I* (contains non-public information, and cannot be distributed)

The University of Auckland

Auckland, New Zealand

BSc

February 2016 - November 2018

- Majored in Physics and Computer Science

AWARDS, FELLOWSHIPS, & GRANTS

2021 **University of Auckland Doctoral Scholarship**, The University of Auckland

2019 **First in Course Award (PHYSICS 746)**, The University of Auckland

TEACHING EXPERIENCE

2018-2019 **PHYSICS 107**, Teaching Assistant

The University of Auckland

2020- **ASTRO 100**, Graduate Teaching Assistant

The University of Auckland

2021- **Tuākana Tutor**, Department of Physics

The University of Auckland

RESEARCH EXPERIENCE

University of Auckland - Department of Physics

Auckland, NZ

SUPERVISOR: ASSOC. PROF. JAN (JJ) ELDRIDGE

April 2021 - September 2021

- Research Assistant

University of Auckland - Department of Physics

Auckland, NZ

SUPERVISOR: DR NICHOLAS RATTENBURY

December 2019 - February 2020

- Summer Research Scholar: "Ground Segment Support for APSS-I" (non-distributable due to non-disclosure agreement)

OUTREACH & PROFESSIONAL DEVELOPMENT ---

SERVICE AND OUTREACH

2021	Post Graduate Students Association , Welfare Vice President	<i>The University of Auckland</i>
2021	Physics Association of the University of Auckland , Vice President	<i>The University of Auckland</i>
2020	Physics Association of the University of Auckland , Treasurer	<i>The University of Auckland</i>
2017-2018	The University of Auckland Magic Society , President	<i>The University of Auckland</i>
2018	Physics Association of the University of Auckland , Committee Member	<i>The University of Auckland</i>

PUBLICATIONS ---

PUBLISHED

IN REVIEW

IN PREP

Natal Kicks and the Period Eccentricity Distribution

Takahe: Compact Object Inspirals in Python