

Shun Yin Cheung

PhD student in Gravitational-Wave Astronomy
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Affiliations: Monash University, Ozgrav

EDUCATION

Monash University, Melbourne, Australia

March 2019 — December 2022

Bachelor of Science Advanced - Research (Honours)

First-Class Honours

Thesis Title: Ultrafast Carrier Dynamics in 2D MoS₂ using
Time-Resolved Pump-Probe Terahertz Spectroscopy

Monash University, Melbourne, Australia

March 2023 — Current

Doctor of Philosophy: Astrophysics

PROJECTS

Searching for Extra Polarisations in Gravitational-Waves using a Gaussian Process

- Searching for extra polarisations in null streams using a gaussian process.
- Optimising the gaussian processor to run faster.
- Developing and implementing a neural network into gaussian processor to speed up the code.

Searching for Gravitational-Wave Memory in O4 Data

- Analyse the O4 data for evidence of memory.
- Develop and automate an analysis pipeline to detect memory.

PUBLICATIONS

Does spacetime have memories? Searching for gravitational-wave memory in the third LIGO-Virgo-KAGRA gravitational-wave transient catalogue

Published in Classical and Quantum Gravity on May 2024

- Authors: **Shun Yin Cheung**, Paul D. Lasky, Eric Thrane. DOI: 10.1088/1361-6382/ad3ffe.

Possible Causes of False General Relativity Violations in Gravitational Wave Observations

Submitted to Arxiv on May 2024

- Authors: Anuradha Gupta, ..., **Shun Yin Cheung**, ..., B. S. Sathyaprakash.

AWARDS

Winter Vacation Research Scholarship

June 2021

Awarded \$1400 on the condition I worked a 4-week research project over the winter break.

Research First Scholarship

December 2019

Awarded \$2100 on the condition I worked a 6-week research project over the summer break.

EXPERIENCE

Teaching Assistant *Monash University*

February 2024 — Current

- Supervise students in physics laboratories.
- Mark tests and reports.
- Invigilate assessments.

High School Tutor *Self-employed*

January 2022 — February 2024

- Offered tutoring to high school students in physics and mathematics.

SKILLS

- **Programming:** Python, SQL, Mathematica
- **Communicating and presenting complex ideas**
- **Collaborating with other people**

REFERENCES

Prof. Eric Thrane

Professor, School of Physics and Astronomy, Monash University

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Associate Prof. Paul Lasky

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