

# Jingqi (Siris) Sun

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## Research interests

### Quant-Ph, HEP-Th

Gaussian States and Unitaries, Continuous-variable (CV) Quantum Computing

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## Education

Parkville, VIC, AU

**The University of Melbourne**

School of Mathematics and Statistics

Jul 2024 – Present

**PhD - Doctor of Philosophy - Science** in Mathematical Physics

Fully funded by the *Melbourne Research Scholarship (MRS)*

Supervisors: *Dr Lucas Hackl & Dr Josh Combes*

IBM Quantum Hub

Cambridge, UK

**University of Cambridge**

DAMTP & Churchill College

Oct 2022 – Jul 2023

**MASt - Master of Advanced Study in Applied Mathematics**

Part III of the Mathematical Tripos, with *First Class Honours*

Auckland, NZ

**The University of Auckland**

Jul 2021 – Aug 2022

**BSc(Hons) - Bachelor of Science (Honours) with First Class Honours** in Physics

Jul 2018 – Sep 2021

**BSc - Bachelor of Science** in Physics and Mathematics

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## Research projects

Semester One 2022

**BSc(Hons) Research Project (Dissertation PDF)**

Impacts of Asymmetric Supernova Explosions on Binary Populations and Gravitational Waves Archaeology; Supervisor: *Prof Jan J. Eldridge*

Summer School 2021

**BSc Research Project (Report PDF)**

Predictions of Stellar Nucleosynthetic Yields of Core Collapse Supernovae and Hypernovae on the BPASS Model; Supervisor: *Prof Jan J. Eldridge*

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## Teaching employments

Parkville, VIC, AU

**The University of Melbourne**

Semester Two 2025

Position/Title: **Tutor & Marker - MAST10006: Calculus 2**

Semester One 2025

Position/Title: **Tutor & Marker - MAST10006: Calculus 2**

Semester Two 2024

Position/Title: **Course Assistant - MAST90069: Introduction to String Theory**

NZ & Online

**HD EDUCATION HOLDING GROUP LIMITED**

Oct 2023 – Jul 2024

Position/Title: **Expert Tutor** (Level 6, Highest)

Mar 2021 – Jul 2022

Position/Title: **Honour Tutor** (Level 5)

Mar 2020 – Feb 2021

Position/Title: **Senior Tutor** (Level 3)

Mar 2019 – Feb 2020

Position/Title: **Junior Tutor** (Level 1)

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## Academic awards

Semester Two 2020  
2018 – 2022

2020 First in Course Award in MATHS 320  
Certificates of Distinction & Certificates of Merit

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## Experiences

VIC, AU

24 September 2025

24 June 2025

20-21 February 2025

11-13 February 2025

4 February 2025

Berkeley, CA, US

14-25 July 2025

Nanjing, China

21-27 August 2023

Beijing, China

16-18 January 2019

Auckland, NZ

Semester One 2019

**Talk: *Representation theory of inhomogeneous Gaussian unitaries***

MATRIX-AMSI PhD Student Symposium

Mini-Workshop on Mathematical Physics

Melbourne Quantum Retreat 2025

The 2025 ANZAMP Meeting, Bendigo

Early Career Research Summit, Melbourne Connect

**Simons Laufer Mathematical Sciences Institute (SLMath)**

Geometry and Dynamics in Higher Rank Lie Groups (UC Berkeley)

**Shing-Tung Yau Center of Southeast University**

The 3rd Frontier Summer Lectures of Strings, Fields and Holography

**Institute of Theoretical Physics, Chinese Academy of Sciences**

The 3rd Peng Huanwu Young Scientists' Forum on Theoretical Physics and Interdisciplinary Studies (Visitor)

**The University of Auckland**

Auckland Programme for Space System (APSS)

Award: *the Most Beneficial to NZ*

Value: 50.0 NZD

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## Chinese Students and Scholars Association (CSSA)

Parkville, VIC, AU

Sep 2025 – Present

Feb 2025 – Sep 2025

Aug 2024 – Feb 2025

Cambridge, UK

Nov 2022 – Jun 2023

**CSSA, University of Melbourne (CSSA-UniMelb)**

Position/Title: Head of the Department of Academics

Position/Title: Founder & Head of the Department of Academics

Position/Title: Committee Member, Department of Events

**CSSA in Cambridge (CSSA-CAM)**

Position/Title: Deputy Head, Department of Physical Education

Award: *Excellent Committee Member*

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## Skills and professional qualifications

**Computer Programming**

Python, Mathematica,  $\text{\TeX}$ ,  $\text{\LaTeX}$ , MatLab, Java

**Proficient Languages**

English (Fluent), Mandarin Chinese (Native)

**Vehicle Driving**

Dec 2018

Full Driving License (Class C1, China)

**Krav Maga**

Aug 2022

IKMF P2 (Practitioner Level 2)