

Jingqi (Siris) Sun

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Citizenship: China
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Research interests

Quant-Ph, HEP-Th

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

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

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*

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)

Academic awards

Semester Two 2020
2018 – 2022

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

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

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 Sports

Award: *Excellent Committee Member*

Skills and professional qualifications

Computer Programming

Python, Mathematica, \TeX , \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)