

Ka Lok (Rico) Lo

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Research Interests

- gravitational waves, gravitational lensing, black holes, exotic compact objects
- novel and efficient data-analysis and computational methods

Research Position

Niels Bohr Institute, University of Copenhagen

Postdoctoral fellow, Strong Gravity Group

Copenhagen, Denmark

2023 Aug – Present

Education

California Institute of Technology

PhD in Physics

Pasadena, CA, United States

2018 – 2024

Dissertation: *Gravitational Wave Exotica – Advancing the Search for Signatures of Exotic Compact Objects and Gravitational Lensing from Data-Analysis and Theoretical Perspectives*

Advisor: Alan Weinstein

The Chinese University of Hong Kong

BSc in Physics

Shatin, NT, Hong Kong

2014 – 2018

Teaching and Mentoring Experience

Undergraduate student mentoring

- Patrick Lundgren, Bachelor thesis, University of Copenhagen 2025 Feb – Present
- Leart Sabani, Bachelor thesis, University of Copenhagen 2024 Feb – 2024 Jun
- Leif Lui, Caltech LIGO Summer Undergraduate Research Fellowship 2021 Summer
- Henry W. Y. Wong, CUHK Summer Undergraduate Research Internship Program 2021 Summer
- Lok W. L. Chan, CUHK Summer Undergraduate Research Internship Program 2021 Summer
- Jack Kwok, Caltech LIGO Summer Undergraduate Research Fellowship 2020 Summer

Teaching assistant

- Topics in Classical Physics (Ph106a), California Institute of Technology 2021 Fall

Honors and Awards

- Croucher Scholarship for Doctoral Study 2018 – 2021
- C N Yang Scholarship 2016 – 2017
- Professor C. K. Kao Research Exchange Scholarship 2015 – 2016
- C N Yang Scholarship (Research Experience) 2015 – 2016

Professional Memberships

- LIGO (Laser Interferometer Gravitational-Wave Observatory) Scientific Collaboration 2016 – Present
- LISA (Laser Interferometer Space Antenna) Consortium 2024 – Present

Talks and Seminars

Contributed talks.....

- Capra Meeting on Radiation Reaction in General Relativity 2024
- 4th Meeting on Gravitational Wave Science in Denmark-Norway 2024
- American Physical Society April Meeting 2021, 2022, 2023
- Gravitational Wave Physics and Astronomy Workshop 2018, 2019

Invited seminars.....

- Max Planck Institute for Gravitational Physics (Albert Einstein Institute), Potsdam 2024
- University of Wisconsin-Milwaukee 2022
- California Institute of Technology 2022

References

Jose María Ezquiaga

Associate professor, University of Copenhagen

Vitor Cardoso

Professor, University of Copenhagen & Universidade de Lisboa

Alan Weinstein

Professor, California Institute of Technology