Laura Elina Uronen

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RESEARCH INTERESTS

My research focuses on multi-messenger gravitational-wave lensing. Using Bayesian inference, I work mainly in identifying GW strong lensing and in building methods to combine dark siren GW observations with EM information for multi-messenger science.

EDUCATION

The Chinese University of Hong Kong, HKSAR **2023 – Present**
Ph.D. in Physics
Supervisors: Otto A. Hannuksela, Justin Janquart.

University of St Andrews, Scotland, UK **2018 – 2023**
Integrated MPhys Astrophysics (Hons), 1st Class
"Partial eclipse of the heart for HD 181793."
Supervisors: Andrew C. Cameron, Tom Wilson.

EXPERIENCE

UG project mentor **2024 – Present**
The Chinese University of Hong Kong
Mentoring an undergraduate student through summer project and final-year project related to GWs and lensing.

Teaching Assistant **2023 – Present**
The Chinese University of Hong Kong
PHYS1110: Engineering Physics. Lead weekly tutorials for 10-40 students, consultation hours, and assist with marking and exam invigilation.

Summer research internship **Summer 2022**
University of St Andrews School of Physics
Supervisor: Juan Hernández Santisteban

AWARDS

- Hong Kong PhD Fellowship Award, 2023.
- Vice-Chancellor's HKPFS Scholarship, Chinese University of Hong Kong, 2023.
- Student Staff Council Vacation Award, University of St Andrews, 2022.
- Deans' List, University of St Andrews, 2019, 2020, 2021.

OUTREACH

- CUHK Postgraduate Physics Society organizing committee (2023 – Present).
- University of St Andrews Physics Society (2019 – 2023): Events & Publicity Officer, Vice-President, President.
- University of St Andrews Physics Class Representative (2021 – 2022).
- University of St Andrews School Ambassador (2019 – 2023).

SKILLS

Languages: Native/fluent in English, Finnish, French; conversation in Spanish.
Coding languages: Python, FORTRAN.
Developer and analyst for GOLUM (GW lensing PE), experienced with bilby, lenstronomy, allesfitter.

PUBLICATIONS

J. Janquart, et al. *What is the nature of GW230529? An exploration of the gravitational lensing hypothesis*, MNRAS (2025), DOI: 10.1093/mnras/staf049.
L. E. Uronen, T. Li, et al. *Finding black holes: an unconventional multi-messenger*, Phil. Trans. A (pre-print), arXiv:2406.14257.
L. E. Uronen, A. Collier Cameron, T. Wilson. *Dynamical mass determination and partial eclipses of the heartbeat star HD 181793*, MNRAS, 432, 4 (2024), DOI: 10.1093/mnras/stae1531.

CONTRIBUTED TALKS

- **Royal Society Meeting for Gravitational Lensing**, *Manchester, UK* 2024
- **Cosmic Frontiers Workshop**, *HKSAR* 2023
- Department/group presentations: University of Glasgow, University of Portsmouth, University of Amsterdam, Leiden University, Université Catholique de Louvain
- Posters: LVK Meeting, Japan (2023); Rubin Strong Lensing, UK (2024).