LARS LUND THOMSEN

RESEARCHER

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https://gfh112.github.io/Lars/

https://github.com/gfh112/

RELEVANT SKILLS

- Programming languages:
  - Skilled in Python
  - Competent in C++
  - Knowledgeable in Fortran, MatLab, and SQL.
- Proficient in statistical analysis and model comparison using the Bayesian framework.
- Experienced in quality control, testing and interpretation of new simulation results.
- Familiar with machine learning techniques, such as Gaussian Processes.

EDUCATION HISTORY

- Dissertation Year Fellowship,
  The University of Hong Kong, 2024
- PhD in Astrophysics,
  The University of Hong Kong, 2023
- M.S. in Astrophysics,
  Copenhagen University, 2019
- B.S. in Physics,
  Copenhagen University, 2016

TEACHING:

- Teaching Assistant in Principles of Astronomy (PHYS3652)
- Teaching Assistant in Astrophysics (PHYS3653)
- Virtual instructor for the entire year 2 semester 1 lab (PHYS 2250, 2255, 2265)

SERVICE AND LEADERSHIP

- Hosted and organized the Astronomy Journal club at HKU (2019-2022), fostering scholarly community and facilitating discussions.
- Consulting and advising on 2 research projects led by junior group members (2020-now), promoting their success.
- Created Science Expo video promoting physics research to the public (Oct 13, 2021), demonstrating effective communication skills.

FIRST AUTHOR PUBLICATIONS

X-Ray Fluorescence from Super-Eddington Accreting Black Holes
Astrophysical Journal Letter · Oct 1, 2019

Relativistic X-Ray Reverberation from Super-Eddington Accretion Flow.
Astrophysical Journal · Feb 1, 2022

Dynamical Unification of Tidal Disruption Events
Astrophysical Journal Letter · Oct 1, 2022

SELECTED OTHER PUBLICATIONS

An Asymmetric Electron-scattering Photosphere around Optical Tidal Disruption Events
Nature Astronomy· September 22, 2022, 5th author