

Shun-Sheng Li

PhD candidate

<https://lshuns.github.io/>

Leiden Observatory

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RESEARCH KEYWORDS

Gravitational lensing: strong, weak and micro

Galaxies: halos, groups and clusters

Cosmology: cosmological parameters, dark matter and large-scale structure of universe

Methods: data analysis, observational and statistical

Techniques: image processing and photometric

RESEARCH EXPERIENCE

Leiden Observatory, Leiden

2019 – present

Research Assistant

- Dark matter properties with galaxy-galaxy lensing (in prep.)
- Cosmology with cosmic shear (in prep.)
- Weak lensing calibration ([arXiv:2210.07163](#))
- Consistency test for cosmic shear analysis ([arXiv:2009.00367](#))

National Astronomical Observatory of China, Beijing

2017 – 2019

Research Assistant

- Data analysis of microlensing events ([arXiv:1904.07718](#), [arXiv:1904.11204](#), [arXiv:1912.00038](#))
- Gravitational lensing of gravitational waves ([arXiv:1802.05089](#), [arXiv:1810.00003](#))

EDUCATION

Leiden University, Leiden

2019 – 2023 (expected)

PhD in Astrophysics

- Thesis: TBD
- Advisors: [Prof. Koen Kuijken](#) & [Prof. Henk Hoekstra](#)

University of Chinese Academy of Sciences, Beijing

2016 – 2019

MSc in Astrophysics

- Thesis: “Gravitational Lensing of Gravitational Waves”
- Advisor: [Prof. Shude Mao](#)

Nanjing University, Nanjing

2012 – 2016

BSc in Astronomy

TEACHING EXPERIENCE

TEACHING ASSISTANT

- Large-Scale Structure and Galaxy Formation 2022
Master's course, Leiden University
- Gravitational Lensing 2020
Master's course, Leiden University

(CO-)SUPERVISION

- Margherita Grespan (2020), Shiyang Zhang (2022)
MSc students, Leiden University

PROFESSIONAL EXPERIENCE

COLLABORATION

- [Kilo-Degree Survey](#) 2019–present
KiDS-Legacy calibration team, galaxy-galaxy lensing working group
- [Euclid Consortium](#) 2020–present
Flagship 2.0 validation team, weak lensing science working group

SCHOLARSHIPS AND AWARDS

- National Scholarship for Graduate Students of China 2018
- People's Scholarship 2014, 2015

PUBLICATIONS

Total 6 published, 1 submitted (5 first/second-author).

A full list is available at <https://lshuns.github.io/publications/>

SELECTED

- KiDS-Legacy calibration: Unifying shear and redshift calibration with the SKiLLS multi-band image simulations
S.-S. Li, K. Kuijken, H. Hoekstra, et al., 2022, submitted to A&A ([arXiv](#))
- OGLE-2017-BLG-1186: First Application of Asteroseismology and Gaussian Processes to Microlensing
S.-S. Li, W. Zang, A. Udalski, et al., 2019, MNRAS, 488, 3308 ([adsabs](#))
- Gravitational Lensing of Gravitational Waves: A Statistical Perspective
S.-S. Li, S. Mao, Y. Zhao, et al., 2018, MNRAS, 476, 2220 ([adsabs](#))

PRESENTATIONS

Total 8 (2 invited).

A full list is available at <https://lshuns.github.io/talks/>