

Shun-Sheng Li

PhD candidate

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

Leiden Observatory

2333 CA Leiden

the Netherlands

ssli@strw.leidenuniv.nl

RESEARCH INTERESTS

Gravitational lensing measurements and applications; Dark matter properties and connection to galaxy formation; Cosmological models and dark energy constraints; Gravitational waves for cosmological study

RESEARCH EXPERIENCE

Research Assistant	2019 – present
Leiden Observatory , Leiden, the Netherlands	
Research Assistant	2017 – 2019
National Astronomical Observatory of China , Beijing, China	

EDUCATION


PhD in Astrophysics	2019 – 2023 (expected)
Leiden University , Leiden, the Netherlands	
– Thesis: <i>Cosmic tomography with weak gravitational lensing</i>	
– Advisors: Prof. Koen Kuijken & Prof. Henk Hoekstra	
MSc in Astrophysics	2016 – 2019
University of Chinese Academy of Sciences , Beijing, China	
– Thesis: <i>Gravitational lensing of gravitational waves</i>	
– Advisor: Prof. Shude Mao	
BSc in Astronomy	2012 – 2016
Nanjing University , Nanjing, China	

PROFESSIONAL EXPERIENCE

COLLABORATION

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

PUBLIC CODE DEVELOPMENT

-  [MultiBand_ImSim](#)
A multi-band image simulation pipeline for generating multi-band images and creating joint redshift-shear mock catalogues.

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

SCHOLARSHIPS AND AWARDS

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

PUBLICATION STATISTICS

10 total (9 published and 1 submitted), 5 first author and 2 second author.
Total citations: 262, h-index: 7, according to [adsabs](#) recorded on July 24, 2023.

PRESENTATIONS

19 total (5 invited). A complete list is available at <https://lshuns.github.io/talks/>

INVITED TALKS

5. Innsbruck seminar Innsbruck, 2023
Unifying shear and redshift calibration with the SKiLLS multi-band image simulations
4. KIPAC tea talk Stanford (virtual), 2023
Lessons for LSST Weak Lensing from the Kilo Degree Survey
3. Intriguing inconsistencies in the growth of structure over cosmic time Sesto, 2022
Multi-band image simulations to unite the shear and redshift calibrations
2. Leiden-GRAPPA GW cosmology meeting Leiden, 2019
Gravitational Lensing of Gravitational Waves
1. NAOC galaxy formation lunch talk Beijing, 2018
Gravitational Lensing of Gravitational Waves

REFEREES

Prof. Koen Kuijken, PhD supervisor
Leiden University, Leiden, the Netherlands

- Email: kuijken@strw.leidenuniv.nl
- Website: <https://home.strw.leidenuniv.nl/~kuijken/>

Prof. Henk Hoekstra, PhD supervisor
Leiden University, Leiden, the Netherlands

- Email: hoekstra@strw.leidenuniv.nl
- Website: <https://home.strw.leidenuniv.nl/~hoekstra/>

Prof. Shude Mao, Master's supervisor
Tsinghua University, Beijing, China

- Email: smao@tsinghua.edu.cn
- Website: <http://i.astro.tsinghua.edu.cn/~smao/>