

Weijia Sun

Curriculum Vitae

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Kavli Institute for Astronomy and Astrophysics



Education

2016–now **Ph.D., Astrophysics**, Department of Astronomy, School of Physics, Peking University, Beijing, China.

Supervisor: Prof. Licai Deng (NAOC)

2012–2015 **B.Sc., Astrophysics**, Department of Astronomy, School of Physics, Peking University, Beijing, China.

Supervisor: Prof. Eric Peng (PKU)

Thesis: A search for planetary nebulae in Virgo cluster globular clusters

References

- [1] Weijia Sun, Xiaodian Chen, Licai Deng, et al. “Physical Parameters of Late-type Contact Binaries in the Northern Catalina Sky Survey”. In: *The Astrophysical Journal Supplement Series* 247.2, 50 (Apr. 2020), p. 50. DOI: 10.3847/1538-4365/ab7894. arXiv: 2002.08001 [astro-ph.SR].
- [2] **Weijia Sun**, Eric W. Peng, Youkyung Ko, et al. “The Next Generation Virgo Cluster Survey. XVII. A Search for Planetary Nebulae in Virgo Cluster Globular Clusters”. In: *The Astrophysical Journal* 885.2, 145 (Nov. 2019), p. 145.
- [3] **Weijia Sun**, Chengyuan Li, Licai Deng, et al. “Tidal-locking-induced Stellar Rotation Dichotomy in the Open Cluster NGC 2287?” In: *The Astrophysical Journal* 883.2 (Oct. 2019), p. 182.
- [4] Chengyuan Li, **Weijia Sun**, Richard de Grijs, et al. “Extended Main-sequence Turnoffs in the Double Cluster h and χ Persei: The Complex Role of Stellar Rotation”. In: *The Astrophysical Journal* 876.1 (May 2019), p. 65.
- [5] **Weijia Sun**, Richard de Grijs, Licai Deng, et al. “Stellar Rotation and the Extended Main-sequence Turnoff in the Open Cluster NGC 5822”. In: *The Astrophysical Journal* 876.2 (May 2019), p. 113.
- [6] Chengyuan Li, **Weijia Sun**, Jongsuk Hong, et al. “Blue Straggler Stars beyond the Milky Way. IV. Radial Distributions and Dynamical Implications”. In: *The Astrophysical Journal* 871.2 (Feb. 2019), p. 171.
- [7] **Weijia Sun**, Chengyuan Li, Richard de Grijs, et al. “Blue Straggler Stars beyond the Milky Way. II. A Binary Origin for Blue Straggler Stars in Magellanic Cloud Clusters”. In: *The Astrophysical Journal* 862.2 (Aug. 2018), p. 133.
- [8] **Weijia Sun**, Richard de Grijs, Zhou Fan, et al. “The Star Cluster Mass-Galactocentric Radius Relation: Implications for Cluster Formation”. In: *The Astrophysical Journal* 816.1 (Jan. 2016), p. 9.

Skills

- Spectroscopic data reduction and analysis
- Stellar photometry reduction
- Preparation and execution of Observing Programs
- MCMC statistics

Conferences & Talks

- 2020 AAAStro-seminar at Macquarie University, Australia, August 21, 2020
Invited talk: Stellar rotation: the missing piece in star clusters
- 2019 The Next Generation Virgo Cluster Survey (NGVS) Team Meeting, Beijing, China, June 10-13, 2019
Invited talk: PNe in GCs of M87 and M49
- 2019 IAU Symposium 351 & MODEST-19, Star Clusters: from the Milky Way to the Early Universe, Bologna, Italy, May 27-31, 2019
Poster
- 2018 Star clusters and the Milky Way, The XII Luoxiahong workshop in Astrophysics, Langzhong, China, November 20-21, 2018
Contributed talk: The origin of blue straggler stars in the Magellanic Clouds clusters
- 2017 Star clusters and the Milky Way, The XI Luoxiahong workshop in Astrophysics, Nanchong, China, October 9-11, 2017
Contributed talk: Population study of stellar rotation rates in clusters
- 2017 Stellar Populations and the Distance Scale, Beijing, China, September 11-16, 2017
- 2017 Chinese Astronomical Society 2017 Annual Meeting, Urumchi, China, August 7-11, 2017

Observation Experience

- 2019 Awarded 6 h at the SALT as PI in semester 2019-2
- 2019 Visitor observer for the awarded 2 nights at Lijiang 2.4m telescope (PI: Chunguang Zhang)
- 2017 Awarded 4.5 h at the SALT as co-I in semester 2018-2 (PI: Michael Albrow)
- 2017 Awarded 4.5 h at the SALT as co-I in semester 2018-1 (PI: Michael Albrow)
- 2017 Awarded 15 h at the SALT as co-I in semester 2017-2 (PI: Michael Albrow)
- 2016 Visitor observer for the awarded 5 nights at Palomar P200 (PI: Eric Peng)

Selected Honors

- 2016 Presidential Scholarship, Peking University
- 2016 Outstanding Undergraduate Thesis Award, Peking University

Teaching & Outreach

2017 Volunteer for the conference “Stellar Populations and the Distance Scale”, Beijing

Coding

- PYTHON (proficient)
- \LaTeX
- R
- UNIX

Language

English Professional working proficiency
Chinese Native or bilingual proficiency