Yunyang Li

Curriculum Vitae/Feb. 2024

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EDUCATION	
Ph.D. Astrophysics. Johns Hopkins University. Ac	lvisor: Tobias A. Marriage 2018–2024
B.Sc. Physics. Peking University. Advisor: Joel N.	Bregman 2013–2017
RESEARCH EXPERIENCE	
Graduate Research Assistant	Johns Hopkins University, 2018,2020–2024
Research Assistant	Peking University, 2017–2018
Visiting Research Scholar	Univ. of Michigan, Ann Arbor, 2018, Jan-Feb
Visiting Research Scholar	Univ. of Michigan, Ann Arbor, 2016, Sep-Dec
RESEARCH INTERESTS	
cosmic microwave background; cosmology; data a	nalysis; statistics; high-performance computing
REFERENCES	
Letter writers	
Tobias A. Marriage Professor marriage@jhu.ed	•
Charles L. Bennett Bloomberg Distinguished Pro	
Adam D. Hincks Assistant Professor adam.hinc	ks@utoronto.ca 2020 – University of Toronto
Additional references	
Renxin Xu Professor r.x.xu@pku.edu.cn 2017 -	
Joel N. Bregman H.D. Curtis Prof. jbregman@ur	mich.edu 2016 – Univ. of Michigan, Ann Arbor
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COLLABORATION	
Cosmology Large Angular Scale Surveyor (CLASS	
Cosmology Large Angular Scale Surveyor (CLASS SELECTED AWARDS) Collaboration 2018 –
Cosmology Large Angular Scale Surveyor (CLASS SELECTED AWARDS May-the-Fourth Scholarship	Peking University, 2016
Cosmology Large Angular Scale Surveyor (CLASS SELECTED AWARDS May-the-Fourth Scholarship CSC Visiting Fellowship	Peking University, 2016 China Scholarship Council, 2016
Cosmology Large Angular Scale Surveyor (CLASS SELECTED AWARDS May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016
Cosmology Large Angular Scale Surveyor (CLASS SELECTED AWARDS May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014
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Cosmology Large Angular Scale Surveyor (CLASS SELECTED AWARDS May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship TALK & PRESENTATION Towards recovery of the largest-scale polarization of Polarization Survey Results	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 Peking University, 2014 The Affiliated High School of Peking University, 2013 with CLASS: Data Pipeline Development and First Linear AAS 243 Dissertation Talk, New Orleans, 2024
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Johns Hopkins Physics Fair Introduction to Astronomy and Physics Baltimore, MD, 2019

Tangnan Second Middle School, Jiangxi, China, 2014





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As first author

- 5. CLASS Observations of Atmospheric Cloud Polarization at millimeter Wavelengths ApJ 958, 154 (2023) | YL & CLASS Collaboration
- 4. CLASS Data Pipeline and Maps for 40 GHz Observations through 2022 ApJ 956,77 (2023) | YL & CLASS Collaboration
- 3. Constraining Cosmic Microwave Background Temperature Evolution With Sunyaev-Zel'Dovich Galaxy Clusters from the Atacama Cosmology Telescope ApJ 922, 136 (2021) YL; Hincks, Adam D. & ACT Collaboration
- 2. Calvera: A Low-mass Strangeon Star Torqued by Debris Disk? АрЈ 854,165 (2018) | YL; Wang, Weiyang; Ge, Mingyu; Liu, Xiongwei; Tong, Hao & Xu, Renxin
- 1. The Properties of the Galactic Hot Gaseous Halo from X-Ray Emission ApJ 849, 105 (2017) | YL & Bregman, Joel

As contributing author

- 6. CLASS Angular Power Spectra and Map-Component Analysis for 40 GHz Observations through 2022 arXiv 2309.00675 (2023) | Eimer, Joseph R.; YL & CLASS Collaboration
- 5. Cosmology Large Angular Scale Surveyor (CLASS): 90 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance arXiv 2308.13309 (2023) Datta, Rahul; Brewer, Michael K.; Denes Couto, Jullianna; Eimer, Joseph; YL & CLASS Collaboration
- 4. Two Year Cosmology Large Angular Scale Surveyor (CLASS) Observations: Long Timescale Stability Achieved with a Front-end Variable-delay Polarization Modulator at 40 GHz ApJ 922, 212 (2021) | Harrington, Kathleen & CLASS Collaboration
- 3. Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: 40 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance ApJ 891, 134 (2020) Xu, Zhilei; Brewer, Michael K.; Fluxá Rojas, Pedro; YL & CLASS Collaboration
- 2. Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: A Measurement of Circular Polarization at 40 GHz ApJ 889, 105 (2020) | Padilla, Ivan L.; Eimer, Joseph R.; YL & CLASS Collaboration
- 1. The optical/UV excess of X-ray-dim isolated neutron star II. Nonuniformity of plasma on a strangeon star surface RAA 18,082 (2018) | Wang, Wei-Yang; Feng, Yi; Lai, Xiao-Yu; YL; Lu, Ji-Guang; Chen, Xuelei & Xu, Ren-Xin

Review/advisory contribution

- 6. Microwave Observations of Venus with CLASS PSJ 4, 154 (2023) Dahal, Sumit & CLASS Collaboration
- 5. Testing Cosmic Microwave Background Anomalies in E-mode Polarization with Current and Future Data ApJ 945, 79 (2023) | Shi, Rui & CLASS Collaboration
- 4. Calibration of Transition-edge Sensor (TES) Bolometer Arrays with Application to CLASS ApJS 262, 52 (2022) Appel, John W. & CLASS Collaboration
- 3. Four-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: On-sky Receiver Performance at 40, 90, 150, and 220 GHz Frequency Bands ApJ 926, 33 (2022) Dahal, Sumit & CLASS Collaboration
- 2. The Extended Distribution of Baryons around Galaxies ApJ 862, 3 (2018) | Bregman, Joel N.; Anderson, Michael E.; Miller, Matthew J.; Hodges-Kluck, Edmund; Dai, Xinyu; Li, Jiang-Tao; YL & Qu, Zhijie
- 1. Merging strangeon stars RAA 18, 024 (2018) | Lai, Xiao-Yu; Yu, Yun-Wei; Zhou, En-Ping; YL & Xu, Ren-Xin