## Yunyang Li

Curriculum Vitae/Apr. 2024

CONTACT Department of Physics & Astronomy yunyangl@jhu.edu  $\vee$ Johns Hopkins University liyunyang.github.io 0000-0002-4820-1122 Bloomberg 203 3400 N. Charles St. Baltimore, MD, 21218 github.com/LiYunyang RESEARCH INTERESTS cosmic microwave background; cosmology; data analysis; statistics; high-performance computing **EDUCATION** Ph.D. Astrophysics. Johns Hopkins University. Advisor: Tobias A. Marriage 2018-2024 B.Sc. Physics. Peking University. Advisor: Joel N. Bregman 2013-2017 PROFESSIONAL APPOINTMENTS Graduate Research Assistant Johns Hopkins University, 2018,2020-2024 Peking University, 2017–2018 Research Assistant Visiting Research Scholar Univ. of Michigan, Ann Arbor, 2018, Jan-Feb Visiting Research Scholar Univ. of Michigan, Ann Arbor, 2016, Sep-Dec COLLABORATION Cosmology Large Angular Scale Surveyor (CLASS) Collaboration 2018 -REFERENCES Tobias A. Marriage | Professor | marriage@jhu.edu | 2018 -Johns Hopkins Univ. Charles L. Bennett | Bloomberg Distinguished Prof. | cbennett@jhu.edu | 2018 -Johns Hopkins Univ. Adam D. Hincks | Assistant Professor | adam.hincks@utoronto.ca | 2020 -University of Toronto Renxin Xu | Professor | r.x.xu@pku.edu.cn | 2017 -**Peking University** Joel N. Bregman | H.D. Curtis Prof. | jbregman@umich.edu | 2016 -Univ. of Michigan, Ann Arbor SELECTED AWARDS University of Chicago, 2024 -KICP Postdoctoral Fellowship May-the-Fourth Scholarship Peking University, 2016 CSC Visiting Fellowship China Scholarship Council, 2016 Academic Excellence Award Peking University, 2016 Social Work Award Peking University, 2014 The Affiliated High School of Peking University, 2013 Mizuho Scholarship TALK & PRESENTATION Towards recovery of the largest-scale polarization with CLASS: Data Pipeline Development and First Linear Polarization Survey Results AAS 243 Dissertation Talk, New Orleans, 2024 Accessing the largest-scale microwave polarization with CLASS invited Dicke Candidate Seminar, Princeton, 2023 CLASS: Recent Progress and the 40 GHz Results invited FPD Seminar, SLAC, 2023 CLASS: Recent Progress and the 40 GHz Results W&C Seminar, JHU, 2023 CLASS: Recent Progress and the 40 GHz Results Cosmology Group, CCA, 2023 Atmospheric Cloud Polarization Cosmo Group, Princeton, 2023 Constraints on CMB Temperature evolution with SZ clusters W&C Seminar, JHU, 2020 The properties of the Galactic hot gaseous halo from X-ray emission AAS 231, DC, 2018 Is Calvera a strangeon star? AAS 231, DC, 2018 The hot gaseous halo of the Milky Way including radiative transfer effects AAS 229, Grapevine, 2017 TEACHING

Introduction to Galaxies and Active Galactic Nuclei (TA, 171.314)

General Physics/Lab II (TA, 171.104)

Johns Hopkins Univ., Spring, 2020 Johns Hopkins Univ., Spring, 2019 Johns Hopkins Physics Fair Introduction to Astronomy and Physics

Baltimore, MD, 2019 Tangnan Second Middle School, Jiangxi, China, 2014

PUBLICATIONS (D) 🐌 🐬



h-index 8, citations 349

## 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? ApJ 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 ApJ 963, 92 (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