Yunyang Li

Curriculum Vitae/Nov. 2023

CONTACT

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EDUCATION

Ph.D. Astrophysics. Johns Hopkins University. Advisor: Tobias A. Marriage

B.Sc. Physics. Peking University. Advisor: Joel N. Bregman

2013–2017

RESEARCH EXPERIENCE

Graduate Research Assistant

Research Assistant

Visiting Research Scholar

Univ. of Michigan, Ann Arbor, 2018, Jan-Feb Univ. of Michigan, Ann Arbor, 2016, Sep-Dec

RESEARCH INTERESTS

cosmic microwave background; cosmology; data analysis; statistics; high-performance computing

REFERENCES

Letter writers

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

Additional references

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

COLLABORATION

Cosmology Large Angular Scale Surveyor (CLASS) Collaboration

2018 -

SELECTED AWARDS

May-the-Fourth Scholarship
CSC Visiting Fellowship
Academic Excellence Award
Social Work Award
Mizuho Scholarship
The Affiliated High School of Peking University, 2013

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 invited 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 invited 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, 2014

PUBLICATIONS (D) 🐌 🎖



h-index 8, citations 303

AS FIRST AUTHOR

- 5. CLASS Observation of Atmospheric Cloud Polarization at Millimeter Wavelengths ApJ in press | 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 N.

AS CONTRIBUTING COAUTHOR

- 5. CLASS Angular Power Spectra and Map-Component Analysis for 40 GHz Observations through 2022 Submitted to ApJ | Eimer, Joseph R.; YL & CLASS Collaboration
- 4. Cosmology Large Angular Scale Surveyor (CLASS): 90 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance
 - Submitted to ApJS | Datta, Rahul; Brewer, Michael K.; Denes Couto, Jullianna; Eimer, Joseph R.; YL & 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 strangeon star surface RNN 18, 082 (2018) | Wang, Weiyang; Feng, Yi; Lai, Xiaoyu; YL; Lu, Jiguang; Chen, Xuelei; Xu, Renxin

REVIEW/ADVISORY CONTRIBUTION

- 7. Microwave Observations of Venus with CLASS PSJ 4, 154 (2023) Dahal, Sumit & CLASS Collaboration
- 6. Testing CMB Anomalies in E-mode Polarization with Current and Future Data ApJ 945, 79 (2023) | Shi, Rui & CLASS Collaboration
- 5. 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

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. Calibration of Transition-edge Sensor (TES) Bolometer Arrays with Application to CLASS ApJS 262, 52 (2022) Appel, John W. & CLASS Collaboration
- 2. The extended distribution of baryons around galaxies

ApJ 862, 003 (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

RNN 18, 024 (2018) | Lai, Xiaoyu; Yu, Yunwei; Zhou, Enping; YL; Xu, Renxin