Yunyang Li

Curriculum Vitae/Oct. 2023

CONTACT

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EDUCATION

Ph.D. Astrophysics. Johns Hopkins University. Advisor: 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, 2016–2017

RESEARCH INTERESTS

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

REFERENCES

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	l Attar	writers
		WILCIS

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
A Liver L. C.	

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 -
Hot Universe Baryon Surveyor (HUBS) Collarboration	2018 -

SELECTED AWARDS

May-the-Fourth Scholarship	Peking University, 2016
CSC Visiting Fellowship	China Scholarship Council, 2016
Academic Excellence Award	Peking University, 2016
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, LA, 2024
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	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 effective transfer eff	ects AAS 229, TX, 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

OUTREACH

Johns Hopkins Physics Fair Introduction to Astronomy and Physics Baltimore, MD, 2019

Tangnan Second Middle School, Jiangxi, 2014

PUBLICATIONS (D)



AS FIRST AUTHOR

5. CLASS Observation of Atmospheric Cloud Polarization at Millimeter Wavelengths

YL & CLASS Collaboration

ApJ Accepted

4. CLASS Data Pipeline and Maps for 40 GHz Observations through 2022

YL & CLASS Collaboration

ApJ 956, 77 (2023)

3. Constraining Cosmic Microwave Background Temperature Evolution With Sunyaev-Zel'Dovich Galaxy Clusters from the Atacama Cosmology Telescope

YL; Hincks, Adam D. & ACT Collaboration

ApJ 922, 136 (2021)

2. Calvera: a low-mass strangeon star torqued by debris disk?

YL; Wang, Weiyang; Ge, Mingyu; Liu, Xiongwei; Tong, Hao; Xu, Renxin

ApJ 854, 165 (2018)

1. The properties of the Galactic hot gaseous halo from X-ray emission

YL & Bregman, Joel N.

ApJ 849, 105 (2017)

AS CONTRIBUTING COAUTHOR

5. CLASS Angular Power Spectra and Map-Component Analysis for 40 GHz Observations through 2022 Eimer, Joseph R.; YL & CLASS Collaboration

Submitted to ApJ

4. Cosmology Large Angular Scale Surveyor (CLASS): 90 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance

Datta, Rahul; Brewer, Michael K.; Denes Couto, Jullianna; Eimer, Joseph R.; YL & CLASS Collaboration Submitted to ApJS

3. Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: 40 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance

Xu, Zhilei; Brewer, Michael K.; Fluxá Rojas, Pedro; YL & CLASS Collaboration

ApJ 891, 134 (2020)

2. Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: A Measurement of Circular Polarization at 40 GHz

Padilla, Ivan L.; Eimer, Joseph R.; YL & CLASS Collaboration

ApJ 889, 105 (2020)

1. The optical/UV excess of X-ray-dim isolated neutron star II. nonuniformity of plasma on strangeon star surface Wang, Weiyang; Feng, Yi; Lai, Xiaoyu; YL; Lu, Jiguang; Chen, Xuelei; Xu, Renxin

RNN 18, 082 (2018)

REVIEW/ADVISORY CONTRIBUTION

7. Microwave Observations of Venus with CLASS

Dahal, Sumit & CLASS Collaboration

PSJ 4, 154 (2023)

6. Testing CMB Anomalies in E-mode Polarization with Current and Future Data

Shi, Rui & CLASS Collaboration

ApJ 945, 79 (2023)

5. Four-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: On-sky Receiver Performance at 40, 90, 150, and 220 GHz Frequency Bands

Dahal, Sumit & CLASS Collaboration
ApJ 926, 33 (2022)

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

Harrington, Kathleen & ${\bf CLASS}$ Collaboration

ApJ 922, 212 (2021)

3. Calibration of Transition-edge Sensor (TES) Bolometer Arrays with Application to CLASS Appel, John W. & CLASS Collaboration
ApJS 262, 52 (2022)

2. The extended distribution of baryons around galaxies

Bregman, Joel N.; Anderson, Michael E.; Miller, Matthew J.; Hodges-Kluck, Edmund; Dai, Xinyu; Li, Jiang-tao; \mathbf{YL} ; Qu, Zhijie

ApJ 862, 003 (2018)

1. Merging strangeon stars

Lai, Xiaoyu; Yu, Yunwei; Zhou, Enping; \mathbf{YL} ; Xu, Renxin RNN 18, 024 (2018)