# Yunyang Li

Curriculum Vitae/Oct. 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

Johns Hopkins University, 2018,2020–2024

Peking University, 2017–2018

Univ. of Michigan, Ann Arbor, 2016–2017

## 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

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

Peking University, 2016
Peking University, 2016
Peking University, 2014
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 W&C Seminar, JHU, 2023 CLASS: Recent Progress and the 40 GHz Results (invited) 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 AAS 231, DC, 2018 The properties of the Galactic hot gaseous halo from X-ray emission Is Calvera a strangeon star? AAS 231, DC, 2018 The hot gaseous halo of the Milky Way including radiative transfer effects 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

1 | YL

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 & 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)