## Yunyang Li

	Curriculum Vitae/Feb. 2024
Department of Physics & Astronomy	yunyangl@jhu.edu
Johns Hopkins University	liyunyang.github.io
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3400 N. Charles St. Baltimore, MD, 21218	github.com/LiYunyang
RESEARCH INTERESTS	
cosmic microwave background; cosmology; data analy	vsis; statistics; high-performance computing
EDUCATION	
Ph.D. Astrophysics. Johns Hopkins University. Adviso	or: Tobias A. Marriage 2018–2024
B.Sc. Physics. Peking University. Advisor: Joel N. Bre	gman 2013–2017
PROFESSIONAL APPOINTMENTS	
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
COLLABORATION	
Cosmology Large Angular Scale Surveyor (CLASS) Co	llaboration 2018 –
REFERENCES	
Charles L. Bennett   Bloomberg Distinguished Prof.   Adam D. Hincks   Assistant Professor   adam.hincks@Renxin Xu   Professor   r.x.xu@pku.edu.cn   2017 – Joel N. Bregman   H.D. Curtis Prof.   jbregman@umich	utoronto.ca   2020 – University of Toronto Peking University
SELECTED AWARDS	
SELECTED AWARDS  May-the-Fourth Scholarship	Peking University, 2016
	Peking University, 2016
May-the-Fourth Scholarship	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016
May-the-Fourth Scholarship CSC Visiting Fellowship	Peking University, 2016 China Scholarship Council, 2016
May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016
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May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship TALK & PRESENTATION	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 ne Affiliated High School of Peking University, 2013
May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship TALK & PRESENTATION Towards recovery of the largest-scale polarization with	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 ne Affiliated High School of Peking University, 2013  CLASS: Data Pipeline Development and First Linear AAS 243 Dissertation Talk, New Orleans, 2024
May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship TALK & PRESENTATION Towards recovery of the largest-scale polarization with Polarization Survey Results	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 ne Affiliated High School of Peking University, 2013  CLASS: Data Pipeline Development and First Linear AAS 243 Dissertation Talk, New Orleans, 2024
May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship TALK & PRESENTATION Towards recovery of the largest-scale polarization with Polarization Survey Results Accessing the largest-scale microwave polarization with	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 ne Affiliated High School of Peking University, 2013  CLASS: Data Pipeline Development and First Linear AAS 243 Dissertation Talk, New Orleans, 2024 CLASS invited Dicke Candidate Seminar, Princeton, 2023
May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship  TALK & PRESENTATION  Towards recovery of the largest-scale polarization with Polarization Survey Results Accessing the largest-scale microwave polarization with CLASS: Recent Progress and the 40 GHz Results invited CLASS: Recent Progress and the 40 GHz Results CLASS: Recent Progress and the 40 GHz Results	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 ne Affiliated High School of Peking University, 2013  CLASS: Data Pipeline Development and First Linear AAS 243 Dissertation Talk, New Orleans, 2024 CLASS invited Dicke Candidate Seminar, Princeton, 2023 FPD Seminar, SLAC, 2023 W&C Seminar, JHU, 2023 Cosmology Group, CCA, 2023
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May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship TALK & PRESENTATION  Towards recovery of the largest-scale polarization with Polarization Survey Results Accessing the largest-scale microwave polarization with CLASS: Recent Progress and the 40 GHz Results invited CLASS: Recent Progress and the 40 GHz Results Atmospheric Cloud Polarization Constraints on CMB Temperature evolution with SZ clusters	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 ne Affiliated High School of Peking University, 2013  CLASS: Data Pipeline Development and First Linear AAS 243 Dissertation Talk, New Orleans, 2024 CLASS invited Dicke Candidate Seminar, Princeton, 2023 FPD Seminar, SLAC, 2023 W&C Seminar, JHU, 2023 Cosmo Group, Princeton, 2023 sters W&C Seminar, JHU, 2020
May-the-Fourth Scholarship CSC Visiting Fellowship Academic Excellence Award Social Work Award Mizuho Scholarship TALK & PRESENTATION  Towards recovery of the largest-scale polarization with Polarization Survey Results Accessing the largest-scale microwave polarization with CLASS: Recent Progress and the 40 GHz Results invited CLASS: Recent Progress and the 40 GHz Results Atmospheric Cloud Polarization Constraints on CMB Temperature evolution with SZ clust The properties of the Galactic hot gaseous halo from X-re	Peking University, 2016 China Scholarship Council, 2016 Peking University, 2016 Peking University, 2014 ne Affiliated High School of Peking University, 2013  CLASS: Data Pipeline Development and First Linear AAS 243 Dissertation Talk, New Orleans, 2024 CLASS invited Dicke Candidate Seminar, Princeton, 2023 FPD Seminar, SLAC, 2023 W&C Seminar, JHU, 2023 Cosmology Group, CCA, 2023 Cosmo Group, Princeton, 2023 Sters W&C Seminar, JHU, 2020 AAS 231, DC, 2018
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**TEACHING** 

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

General Physics/Lab II (TA, 171.104)

1 | YL

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) 20 💯





h-index 8, citations 326

## 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 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