

# Lingyuan Ji

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## Education

- 2017–Present PURSUING PH.D., *Johns Hopkins University, Department of Physics and Astronomy.*  
Advisor: Prof. Marc Kamionkowski
- 2013–2017 B.Sc., *University of Science and Technology of China, Department of Physics.*  
Thesis: Spinor's Cosmological Perturbation Theory Based on Coherent States  
Advisors: Prof. Antonino Marciano, Prof. Yifu Cai

## Teaching

- 2019 Spring TEACHING ASSISTANT, *AS.171.205 Intro to Practical Data Science: Beautiful Data*  
Lecturer: Prof. Alexander Szalay
- 2018 Fall TEACHING ASSISTANT, *AS.171.646 General Relativity*  
Lecturer: Prof. David Kaplan
- 2018 Spring TEACHING ASSISTANT, *AS.171.627 Astrophysical Dynamics*  
Lecturer: Prof. Nadia Zakamska
- 2017 Fall TEACHING ASSISTANT, *AS.171.107 General Physics for Physical Sciences Majors (AL)*  
Lecturer: Prof. Robert Leheny & Prof. Rosemary Wyse
- 2017 Fall TEACHER, *AS.173.111 General Physics Laboratory I*

## Awards

- 2016 NATIONAL SCHOLARSHIP, *Ministry of Education P.R.C.*
- 2015 GLOBAL RESPONSIBILITY SCHOLARSHIP, *University of Science and Technology of China.*
- 2014 NATIONAL SCHOLARSHIP, *Ministry of Education P.R.C.*

## Talks

2021 Mar

INVITED, *Standard Model Prediction for Cosmological 21cm Circular Polarization*, BSM PANDEMIC Double Feature

## Publication

- [1] **Lingyuan Ji**. Wave Dark Matter Non-minimally Coupled to Gravity. 6 2021, 2106.11971.
- [2] **Lingyuan Ji**, Marc Kamionkowski, and Keisuke Inomata. Standard model prediction for cosmological 21 cm circular polarization. *Phys. Rev. D*, 103(2):023516, 2021, 2005.10250.
- [3] **Lingyuan Ji** and Marc Kamionkowski. Reheating constraints to WIMP inflation. *Phys. Rev. D*, 100(8):083519, 2019, 1905.05770.
- [4] Cyril Creque-Sarbinowski, **Lingyuan Ji**, Ely D. Kovetz, and Marc Kamionkowski. Direct millicharged dark matter cannot explain the EDGES signal. *Phys. Rev. D*, 100(2):023528, 2019, 1903.09154.
- [5] **Lingyuan Ji**, Ely D. Kovetz, and Marc Kamionkowski. Strong Lensing of Gamma Ray Bursts as a Probe of Compact Dark Matter. *Phys. Rev. D*, 98(12):123523, 2018, 1809.09627.