

## EDUCATION

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### The Ohio State University

Columbus, Ohio, USA

Ph.D. Candidate in Physics, Advisor: Klaus Honscheid, Ashley Ross

2016–2022 (Expected)

- Thesis: “Mitigating imaging systematics with image simulation”

### University of Science and Techonology of China

Hefei, Anhui, China

B.S. in Physics, Advisor: Guangshun Huang

2012–2016

- Thesis: “Track reconstruction in the BGO Calorimeter at the Dark Matter Particle Explorer”

## RESEARCH INTERESTS

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- **Large Scale Structure:** Baryon Acoustic Oscillations, Redshift Space Distortion, Primordial Non-gaussianity, Photometric Redshift, Spectroscopic Redshift, Mock data analysis
- **Image Simulation:** Imaging systematics, Image reduction

## COLLABORATION

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- Dark Energy Spectroscopic Instrument (**DESI**)
  - image simulation on DESI galaxy tracers
  - telescope focus analysis during DESI commissioning
  - DESI shutter characterization
- The Extended Baryon Oscillation Spectroscopic Survey (**eBOSS**)
  - image simulation and galaxy clustering analysis on eBOSS ELGs
- Dark Energy Survey (**DES**)
  - Modified gravity analysis on DES-CMASS sample

## TALKS

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| Astrophysics Seminar, Ohio University  | October 13, 2021   |
| – <i>Image simulation and sample characterization of Dark Energy Spectroscopic Instrument (DESI) Galaxies: towards probing the origin of inflation</i> |                    |
| CCAPP Seminar, The Ohio State University   | September 29, 2021 |
| – <i>Image simulation and sample characterization of DESI LRGs</i>   |                    |
| DESI Collaboration Meeting, (Virtual)  | June 18, 2021      |
| – <i>Current status of Obiwan development</i>  |                    |
| DESI Collaboration Survey Validation and Early Spectroscopy Workshop, The Ohio State University  |                    |
| – <i>Mitigating Imaging Systematics Using Obiwan</i>   | December 9, 2019   |
| DESI Collaboration Meeting, University of California, Berkeley   | July 11, 2019      |
| – <i>Mitigating Imaging Systematics in eBOSS ELGs Using Obiwan</i>   |                    |
| DESI Collaboration Meeting, University of Arizona  | May 24, 2018       |
| – <i>The application of Obiwan to eBOSS</i>  |                    |

## TEACHING & SERVICE

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- **Referee**, Patterns - Cell Press
- **Volunteer**, Breakfast of Science Champions, OSU November 2019
- **Volunteer**, DESI comissioning instrument assistance Spring 2019
- **Grader**, Physics 7401: Electromagnetic Field Theory Spring 2018
- **Teaching Associate** Physics 1250: Mechanics, Work and Energy, Thermal Physics, OSU Autumn 2017
- **Volunteer**, COSI Solar Eclipse, Columbus, OH August 2017
- **Grader**, Physics 1251H: Honors Physics: E&M; Thermal Physics, Waves, and Quantum Physics, OSU Spring 2017
- **Grader**, Physics 1250H: Honors Physics: Mechanics and Conservation Laws; Special Relativity, OSU Autumn 2016

## HONORS

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- 2015 Outstanding undergraduate scholarship
- 2015 Mathematical Contest in Modeling (Meritorious Winner)
- 2014 Outstanding undergraduate scholarship
- 2014 Competition of physics research experiment in USTC (first prize)
- 2013 Kwang-Hua Educational Foundation scholarship
- 2012 Outstanding undergraduate scholarship

## OBSERVING EXPERIENCE

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- DESI Observing Scientist (OS) remote shift 3 nights, May 21-23, 2021
- DESI Data Quality Scientist (DQS) remote shift 3 nights, 03/24, 04/28, 04/29 2021
- DESI Commissioning Observing 7 nights, 03/31 - 04/07, 2019