ZHOU, CONGHAO

UC Santa Cruz Physics Department 1156 High Street Santa Cruz, CA 95064

CONTACT

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website https://zch.info

RESEARCH INTERESTS

dark matter \cdot gravitational lensing \cdot galaxy clusters \cdot large scale structure \cdot multi-wavelength cosmology

EDUCATION

University of California, Santa Cruz

2020 - Present 2021 on Leave Ph.D. in Physics Physics Department

Thesis: TBD

Comittee: Tesla E. Jeltema, Alexie S. Leauthaud

Duke University

2020

B.A. in Physics with Highest Distinction

Department of Physics

Thesis: Intrinsic Alignment of redMaPPer Clusters in the Dark Energy Survey Comittee: MICHAEL A. TROXEL, CHRISTOPHER W. WALTER, ROBERT L. WOLPERT

LEAD PUBLICATION

- 1. Constraining optical selection effection with DES and SPT, in prep.
 - C. Zhou, S. Grandis, H.Y. Wu, A.N. Salcedo et al.
- 2. Halo mass tracing stellar mass distribution in IllustrisTNG, in prep.
 - C. Zhou, A.S. Leauthaud, B. Diemer, S. Huang, S. Xu. et al.
- 3. Resposne Bias in Cosmic Shear, in prep.
 - C. Zhou & M.R. Becker
- 4. Forecasting the constraints on optical selection bias and projection effects of galaxy cluster lensing with multiwavelength data, arXiv
 - C. Zhou, H.Y Wu, A.N. Salcedo, S. Grandis, T.E. Jeltema, A.S. Leauthaud et al.
- 5. The intrinsic alignment of red galaxies in DES Y1 redMaPPer galaxy clusters ,

C. Zhou, A. Tong, M.A. Troxel, J. Blazek, C. Lin et al.

CONTRIBUTED PUBLICATION

 Dark Energy Survey Year 3 Results: Deep Field Optical + Near-Infrared Images and Catalogue , MNRAS

W.G. Hartley, A. Choi, A. Amon et al.

TALKS

oct. 2023 Cosmology Seminar, Tsinghua University

PROFESSIONAL MEMBERSHIP

2020 - Present Student Member, LSST Dark Energy Science Coolaboration

2020 - Present Student Member, Dark Energy Spectroscopic Instrument

2018 - Present Student Member, Dark Energy Survey

OUTREACH

2023 Starlight Over Street Light

2022 UC Santa Cruz Physics Outreach Taskforce

2022 Science Internship Program Mentor

2022 UC Santa Cruz Physics Mentoring Program Mentor

SERVICE

jul. 2023 - present Organizer, BCG Seminar, Boise State

sep. 2023 - present Organizer, CosmoGal Seminar, UC Santa Cruz

jan. 2023 LOC, APS Conference for Undergraduate Women in Physics at UC Santa Cruz

aug. 2022 SOC, LSST DESC 2022 Chicago Meeting

apr. 2022 - present DES Early Career Scientists Committee

jul. 2022 - present LSST DESC Mentoring Comittee

TEACHING

2022 Fall Quantum Mechanics (TA)

2022 Summer Intermediate Physics Laboratory (TA)

2022 Spring Advanced Astrophysics Laboratory (TA)

4 times Introductory Physics Laboratory (TA)

February 21, 2024