

ZHOU, CONGHAO

UC Santa Cruz
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CONTACT

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RESEARCH INTERESTS

dark matter · gravitational lensing · galaxy clusters · galaxy quenching ·
multi-wavelength cosmology · intrinsic alignment galaxy morphology ·
statistical methods

EDUCATION

| | |
|----------------|----------------------------------------------------------------------------------------|
| | University of California, Santa Cruz |
| 2020 - Present | Ph.D. in Physics |
| 2021 on Leave | Physics Department |
| | Thesis: <i>TBD</i> |
| | Advisors: TESLA E. JELTEMA, ALEXIE S. LEAUTHAUD |
| | Duke University |
| 2020 | B.A. in Physics with Highest Distinction |
| | Department of Physics |
| | Thesis: <i>Intrinsic Alignment in the redMaPPer Clusters in the Dark Energy Survey</i> |
| | Advisor: MICHAEL A. TROXEL |

LEAD PUBLICATION

1. Resposne Bias in Cosmic Shear, in prep.
C.ZHOU & M.R. BECKER
2. Constraining the Optical Selection Bias of Galaxy Cluster Lensing with
Multi-wavelength Data, in prep.
C.ZHOU, H.Y WU, A.N. SALCEDO, T.E. JELTEMA et al.
3. The Intrinsic Alignment of Red Galaxies in DES Y1 redMaPPer Galaxy
Clusters , *MNRAS Accepted*
C. ZHOU, A. TONG, M.A. TROXEL, J. BLAZEK, C. LIN et al.

CONTRIBUTED PUBLICATION

1. Dark Energy Survey Year 3 Results: Deep Field Optical + Near-Infrared
Images and Catalogue
W.G. HARTLEY et al.

OUTREACH

2022 UC Santa Cruz Physics Outreach Taskforce

SERVICE

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

Organizing Committee

aug. 2022

LSST DESC 2022 Chicago Meeting Science Organizing Committee

2022 - present

DES Early Career Scientists Committee

2022 - present

LSST DESC Mentoring Committee

TEACHING

2022 Fall

Quantum Mechanics (TA)

2022 Summer

Intermediate Physics Laboratory (TA)

2022 Spring

Advanced Astrophysics Laboratory (TA)

3 times

Introductory Physics Laboratory (TA)

September 13, 2023