

# ZHOU, CONGHAO

UC Santa Cruz  
Physics Department  
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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>
	Committee: TESLA E. JELTEMA, ALEXIE S. LEAUTHAUD
	Duke University
2020	B.A. in Physics with Highest Distinction
	Department of Physics
	Thesis: <i>Intrinsic Alignment of redMaPPer Clusters in the Dark Energy Survey</i>
	Committee: MICHAEL A. TROXEL, CHRISTOPHER W. WALTER, ROBERT L. WOLPERT

## 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*  
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 , *MNRAS*  
W.G. HARTLEY, A. CHOI, A. AMON et al.

## TALKS

oct. 2023                Joint Stony Brook University/ Brookhaven National Lab Cosmology Seminar

## OUTREACH

2022                    UC Santa Cruz Physics Outreach Taskforce

2022	Science Internship Program Mentor
2022	UC Santa Cruz Physics Mentoring Program Mentor

**SERVICE**

<i>jan. 2023</i>	APS Conference for Undergraduate Women in Physics at UC Santa Cruz Local Organizing Committee
<i>aug. 2022</i>	LSST DESC 2022 Chicago Meeting Science Organizing Committee
<i>apr. 2022 - present</i>	DES Early Career Scientists Committee
<i>jul. 2022 - present</i>	LSST DESC Mentoring Committee

**TEACHING**

<i>2022 Fall</i>	Quantum Mechanics (TA)
<i>2022 Summer</i>	Intermediate Physics Laboratory (TA)
<i>2022 Spring</i>	Advanced Astrophysics Laboratory (TA)
<i>4 times</i>	Introductory Physics Laboratory (TA)

October 18, 2023