

ZHOU, CONGHAO

UC Santa Cruz
Physics Department
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CONTACT

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RESEARCH INTERESTS

Dark Matter · Gravitational Lensing · Galaxy Clusters · 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>
	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: PROFESSOR MICHAEL A. TROXEL

PUBLICATIONS IN PREPARATION

<i>In Review</i>	The Intrinsic Alignment of Red Galaxies in DES Y1 redMaPPer Galaxy Clusters C. ZHOU, A. TONG, M. TROXEL, J. BLAZEK, C. LIN et al.
<i>Expected 2022</i>	Modelling the Selection Effect Bias in the Dark Energy Survey Y3 Clusters with AbacusCosmos and the South Pole Telescope C. ZHOU et al.
<i>Expected 2022</i>	High Redshift Star-forming Clumps in NewHorizon and FIRE Simulations C. ZHOU et al.

MENTORING

	Science Internship Program
2022 Summer	In this program, I will work with a group of high school students on the Dark Energy Survey Y6 Modeling Choice for 8 Weeks
	UC Santa Cruz SPS Mentor
2022 Spring	I am mentoring UC Santa Cruz undergraduate Neil Goswami on graduate school application and research topic choice

OUTREACH

UC Santa Cruz Physics Outreach Taskforce

2022 Spring I am a member of a team at UC Santa Cruz dedicated to broaden the impact of physics research and serve the underprivileged communities in physics.

SERVICE

2022 Summer LSST DESC 2022 Chicago Meeting Science Organizing Committee

2022 DES Early Career Scientists Committee

TEACHING

2022 Summer Intermediate Physics Laboratory (TA)

2022 Spring Advanced Astrophysics Laboratory (TA)

twice Introductory Physics Laboratory (TA2)

July 20, 2022