

ZHOU, CONGHAO

UC Santa Cruz
Physics Department
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Santa Cruz, CA 95064

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
2021 on Leave

Ph.D. in Physics
Physics Department
Thesis: *TBD*

Duke University

2020

B.A. in Physics with Highest Distinction
Department of Physics
Thesis: *Intrinsic Alignment in the redMaPPer Clusters in the Dark Energy Survey*
Advisor: PROFESSOR MICHAEL A. TROXEL

PUBLICATIONS IN PREPARATION

In Review

The Intrinsic Alignment of Red Galaxies in DES Y1 redMaPPer Galaxy Clusters
C. ZHOU, A. TONG, M. TROXEL, J. BLAZEK, C. LIN et al.

Expected 2022

Modelling the Selection Effect Bias in the Dark Energy Survey Y3 Clusters with
AbacusCosmos and the South Pole Telescope
C. ZHOU et al.

Expected 2022

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

2022 LSST DESC Mentoring Committee

TEACHING

2022 Summer Intermediate Physics Laboratory (TA)

2022 Spring Advanced Astrophysics Laboratory (TA)

twice Introductory Physics Laboratory (TA)

July 20, 2022