CHRISTOPHER LINDSAY

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EDUCATION

Yale University August 2020 - Present New Haven, CT

Astronomy PhD Candidate. (M.S., M.Phil. in Astronomy, 2022)

August 2016 - May 2020

University of Southern California (USC)

B.S. Astronomy; B.A. Environmental Studies; Jazz Studies Minor

Los Angeles, CA

RESEARCH EXPERIENCE

Graduate Research in Stellar Astrophysics

Advisor: Professor Sarbani Basu

August 2020 - present Yale University

- · Using asteroseismic data and modelling techniques to investigate interior mixing and angular momentum processes in evolved solar-type oscillators.
- · Answering stellar evolution questions using subgiant star asteroseismology
- · Investigating stellar flares and solar flare in TESS, Kepler, and Solar Dynamics Observatory (SDO) data with machine learning. Advising Yale University Junior Daniel Chang.

Undergraduate/Graduate Research in Helioseismology

August 2016 - present

Advisor: Professor Edward Rhodes

University of Southern California

- · Processed solar oscillation data from SDO and the Solar and Heliospheric Observatory (SOHO) satellites in order to examine solar atmospheric properties across multiple solar cycles.
- · Took heliosismic data at the Mount Wilson Observatory 60' solar tower as part of the Birmingham Solar Oscillations Network (BiSON) group.
- · Supported NASA's JUNO mission with CH₄ imagery data taken with the Mount Wilson 100" telescope.

PUBLICATIONS

[Listed Here in a Public ADS Library]

first author papers

· Christopher Lindsay, Joel Ong, and Sarbani Basu. 2022 (ApJ, 931:116) Mixed Mode Asteroseismology of Red Giant Stars Through the Luminosity Bump

co-author papers

- · Hans Deeg, et.al. (incl. C. Lindsay) 2021 (in press, JAAVSO) Maintaining the Ephemeris of 20 CoRoT Planets: Transit Minimum Times and Potential Transit Timing Variations
- · J. Cabrera, et.al. (incl. C. Lindsay) 2015 (in press, A&A) Transiting exoplanets from the CoRoT space mission XXVII. CoRoT-28b, a planet orbiting an evolved star, and CoRoT-29b, a planet showing an asymmetric transit

INVITED TALKS

TEDx talk at the University of Southern California

Exoplanet Astronomy and the Nobel Prize Hidden in Plain Sight

March 25th 2022 Los Angeles, USA

CONTRIBUTED CONFERENCE POSTERS AND TALKS

TASC6/KASC13: Poster and Pitch Talk

July 2022

Red Giant Seismology: Seismic Signatures of Convective Overshoot

Leuven, Belgium

Cool Stars 21: Poster

July 2022

Mixed Mode Asteroseismology of Red Giants Through the Luminosity Bump

Toulouse, France

AAS 240: Talk Red Giant Seismology: Seismic Signatures of Convective Overshoot June 15th 2022 Pasadena. CA

ADDITIONAL CONFERENCE AND WORKSHOPS ATTENDED

Life and Death: From Stars to Compact Objects

August-September 2022

Attended workshop as a student

Asigao, Italy

August 2022

MESA Summer School 2022 Attended workshop as a student

Santa Barbara, CA

Fifty Years of the Skumanich Relations

February 2022

Attended

Boulder, CO

TEACHING FELLOW EXPERIENCE

ASTR 120: Galaxies and the Universe

January 2022 - May 2022

Instructor: Michael Faison

Yale University

PHYS 401: Advanced Classical Physics

September 2021 - December 2021

Instructor: Professor Nikhil Padmanabhan

Yale University

ASTR 120: Galaxies & the Universe

July 2021 - August 2021 Yale University

Instructor: Professor Robert Zinn

ASTR 135: Archaeoastronomy

January 2021 - May 2021

Instructor: Michael Faison

Yale University

ASTR 155: Introduction to Astronomical Observing

August 2020 - December 2020

Instructor: Michael Faison

Yale University

ADDITIONAL WORK & SERVICE EXPERIENCE

Graduate Student Affiliate for Benjamin Franklin College

October 2022 - Present

Benjamin Franklin College

Yale University

· Promoting interactions between undergraduates and graduate students and working with the Head of College, college staff, and undergraduate students to organize social and educational activities throughout the year

Graduate Student Assembly Representative and Secretary

May 2021 - Present

Yale Graduate School of Arts & Sciences

Yale University

Serving as the Astronomy department representative and Secretary of the Yale Graduate School of Arts & Sciences' Graduate Student Assembly

Resident Assistant (RA)

July 2016 - May 2020

Supervisor: Dr. Sally Behpoornia

University of Southern California

· Mentoring communities of 30-60 students each year, planning events, and promoting student involvement, mental health and inclusion

Yale Gruber Science Fellow

August 2020 - Present

"Awarded to the most highly ranked applicants to Yale PhD programs in the life sciences, cosmology, and astrophysics. This Fellowship is the most prestigious award offered by Yale's Graduate School of Arts and Sciences to incoming science students in recognition of their outstanding accomplishments and exceptional promise." Includes Stipend and Tuition for the first two years of study and an additional \$9,500 award.

USC Order of the Laurel and the Palm

May 2020

"The highest honor accorded to undergraduates completing their programs of study. Less than one percent of undergraduates earning their degrees are selected as members of the Order of the Laurel and the Palm."

USC Provost Research Fellowships	May 2019 - May 2020
USC Summer Undergraduate Research Fund (SURF)	Summers 2017 & 2018
USC Student Opportunities for Academic Research (SOAR)	August 2016 - May 2018
USC Warren Bennis Scholars Leadership Program	August 2018 - May 2020
USC Trustee Scholar (Full Tuition Remission)	August 2016 - May 2020
USC University Scholarships	August 2016 - May 2020
USC Resident Honors Program	August 2016 - May 2020
USC Thematic Option Honors Program	August 2016 - May 2020
Regeneron Science Talent Search (STS) Scholar	2017
Davidson Fellows Laureate (\$50,000 award)	2016