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Zesen Huang
Postdoctoral Researcher

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Dr. Zesen Huang is a postdoctoral researcher working at Department of Earth, Planetary, and Space Sciences of UCLA. His research interests include the theory of energy source of solar wind turbulence and fine structures in the solar wind. His work includes running MHD simulations programs and analysis of satellite (Parker Solar Probe, Ulysses, etc.) data.

EMPLOYMENT & EXPERIENCES

Postdoctoral Researcher, Department of Earth, Planetary, and Space Sciences, UCLA	Jul 2024 - Now
Graduate Student Researcher, Department of Earth, Planetary, and Space Sciences, UCLA	Sep 2019 - Jun 2024
Visiting Undergrad Researcher, Space Sciences Laboratory, UC Berkeley	Mar 2019 - May 2019
—	Jul 2018 - Sep 2018

EDUCATION

Doctor of Philosophy in Geophysics and Space Physics, University of California, Los Angeles Department of Earth, Planetary, and Space Sciences	Jun 2024
Master of Science in Geophysics and Space Physics, University of California, Los Angeles Department of Earth, Planetary, and Space Sciences	Mar 2022
Bachelor of Science in Geophysics with Honors, University of Science and Technology of China School of the Gifted Young/Department of Earth and Space Sciences	Jun 2019

SKILLS

Tools and Languages	Python, Git, \LaTeX , Mathematica, IDL
Research	Time Series Analysis, Parallel Computing
Communication	English, Cantonese (Native Speaker), Mandarin (Native Speaker)

AWARDS AND FELLOWSHIPS

Bachelor Honor Grade (Top 4%)	2019
EPSS Department Fellowship	2019

FUNDS

NSF ACCESS Allocation, PI, Gaussianization of Magnetic Magnitude in MHD Turbulence	2024-2025
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TEACHING EXPERIENCE

• Teaching Assistant for Undergraduate Electro-Magnetism, USTC	2016
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ACTIVITIES & OUTREACHES

• Served as reviewer for multiple journals including <i>Frontiers in Astronomy and Space Sciences</i> , <i>Scientific Reports</i> , etc.	
• Served as judge for <i>Outstanding Student Presentation Awards</i> program in AGU Fall Meetings	
• UCLA Explore Your Universe Booth Volunteer: <i>Our Magnetic Sun</i>	2022, 2023
• Chief Editor, USTC Dr. Stone Student Science Outreach Club	2018, 2019, 2020

PRESENTATIONS

• (Oral) Conservation of Total Wave Action and Magnetosonic Resonance Broadening in Expanding Solar Wind, <i>44th COSPAR Scientific Assembly, Athens, Greece</i> , Jul 2022	
• (Oral) Evolution of Lower Frequency Breaks of Alfvénic Turbulence in the Inner Heliosphere, Observed by Parker Solar Probe and Solar Orbiter, <i>AGU Fall Meeting 2022, Chicago, IL</i> , Dec 2022	
• (Oral) New Observations of Solar Wind 1/f Turbulence Spectrum from Parker Solar Probe, <i>Solar Wind 16 Conference, Monterey, CA</i> , Jun 2023	
• (Oral, Online) In situ Remnants of Solar Surface Structures from Parker Solar Probe and Ulysses, <i>Parker Heliophysics Scholars, 6th Meeting</i> , Oct 2023	
• (Poster) Natural Contextualization of Solar Wind Time Series with Jensen-Shannon Scalogram, <i>AGU Fall Meeting 2023, San Francisco, CA</i> , Dec 2023	
• (Oral) Tracing the Birth and Evolution of the Solar Wind by Connecting Spacecraft Conjunctions and Remote Observations, <i>Triennial Earth-Sun Summit (TESS) 2024, Dallas, TX</i> , Apr 2024	
• (Poster) Solar Wind Turbulence, Leakage from Photosphere 5-min Oscillations?, <i>EclipseSA, San Antonio, TX</i> , Apr 2024	
• (Oral, Online) 3-Minute Oscillations in the Upper Corona: Evidence from PSP, <i>Parker Heliophysics Scholars, 7th Meeting</i> , May 2024	
• (Oral, Online) 3-Minute Oscillations in the Upper Corona: Evidence from Parker Solar Probe, <i>Parker Solar Probe Theory Telecon</i> , Jul 2024	