

XIUYUAN DING

Ph.D. Candidate

Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles

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EDUCATION

University of California, Los Angeles, CA, USA 2019–present

Advanced to Candidacy (06/2022)

M.S. in Atmospheric and Oceanic Sciences (06/2021)

Advisor: Prof. Gang Chen

Lanzhou University, Lanzhou, China 2015–2019

B.S. in Atmospheric Sciences (06/2019)

PUBLICATIONS

Ding et al. Surface Cooling Signature of Strong Stratospheric Wave Events Depends on the QBO Phase. *Under review at Geophysical Research Letters*

Ding, X., Chen, G., & Ma, W. (2023). Stratosphere-Troposphere Coupling of Extreme Stratospheric Wave Activity in CMIP6 Models. *Journal of Geophysical Research: Atmospheres*, 128, e2023JD038811. <https://doi.org/10.1029/2023JD038811>

Ding, X., Chen, G., Zhang, P., Domeisen, D. I. V., & Orbe, C. (2023). Extreme Stratospheric Wave Activity as Harbingers of Cold Events over North America. *Communications Earth & Environment*, 4, 187. <https://doi.org/10.1038/s43247-023-00845-y>

Ding, X., Chen, G., Sun, L., & Zhang, P. (2022). Distinct North American Cooling Signatures Following the Zonally Symmetric and Asymmetric Modes of Winter Stratospheric Variability. *Geophysical Research Letters*, 49(6), e2021GL096076. <https://doi.org/10.1029/2021GL096076>

SELECTED CONFERENCES

AMS Annual Meeting 2024, Baltimore, MD: Strong Stratospheric Wave Events Precede North American Cold Extremes. (Jan 28–Feb 1, 2024, Invited)

AGU 2023 Fall Meeting, San Francisco, CA: The Impact of QBO on the Surface Signature of Strong Stratospheric Wave Events. (Dec 11–15, 2023, Poster)

DynVar/SNAP Workshop, Munich, Germany: Stratospheric Wave Precursor of Cold Events over North America. (Oct 9–13, 2023, Oral)

S2S Summit 2023, Reading, UK: Causality between Extreme Stratospheric Wave Activity and Cold Extremes over North America. (Jul 3–7, 2023, Poster)

EGU General Assembly 2023, Online: Assessing Stratosphere-troposphere Coupling of Extreme Stratospheric Wave Activity in CMIP6 Models. (Apr 23–28, 2023, Oral)

AGU 2022 Fall Meeting, Chicago, IL: Examining the Causality between Stratospheric Planetary Wave Activity and North American Cold Extremes. (Dec 12–16, 2022, Oral)

4th Annual California Geophysical Fluid Dynamics (CalGFD) Meeting 2022, Pasadena, CA: Disentangling the Causality between Stratospheric Planetary Wave Activity and North American Cold Events. (Aug 18–19, 2022, Oral)

2022 NCAR ASP Colloquium Workshop, Boulder, CO: The Science of Subseasonal to Seasonal (S2S) Predictions. (Jul 11–15, 2022, Poster)

AMS Annual Meeting 2022, Online: Distinct North American Cooling Signatures Following the Zonally Symmetric and Asymmetric Modes of Stratospheric Variability in the Northern Hemisphere Winter. (Jan 23–27, 2022, Oral)

HONORS AND AWARDS

Travel Support for DynVar/SNAP Workshop	07/2023
Dissertation Year Fellowship, UCLA (\$38,000)	06/2023
Paul M. Furukawa Memorial Fellowship, Dept. of AOS, UCLA (\$12,500)	09/2022
NCAR ASP Colloquium Travel Award	06/2022
Outstanding Bachelor's Thesis, Lanzhou University	05/2019
Outstanding Student Scholarship, Lanzhou University	06/2017

TEACHING EXPERIENCE

Teaching Assistant of AOS 3 – Meteorology and Extreme Weather, 2023 Spring

Special Reader of AOS C170/C227 – Advanced Dynamics and Synoptic Meteorology, 2023 Winter

Teaching Assistant of AOS 51 – Fundamentals of Climate Science, 2022 Spring

SERVICE

Reviewer for: *Geophysical Research Letters*, *Climate Dynamics*

Session chair, DynVar/SNAP Workshop in Munich, 2023

Volunteer, S2S Summit at University of Reading, 2023

Volunteer, Exploring Your Universe at UCLA, 2021, 2022

Student-invited seminar organizer, UCLA AOS, 2022–2023

Student representative, AOS 270 committee, UCLA, 2022–2023

MENTORING

Graduate mentees: Jacob Chen (2022–2023, co-supervised with Gang Chen), He Huang (2022, co-supervised with Gang Chen)

Undergraduate mentees: Marianna Shand (2023, co-supervised with Gang Chen), Claire Fu (2021, co-supervised with Gang Chen)