

ZHAOXIA PU

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PROFESSIONAL PREPARATION

B. S. 1989 Meteorology, Lanzhou University, China
M. S. 1992 Meteorology and Atmospheric Sciences, Lanzhou University, China
Ph.D. 1997 Meteorology and Atmospheric Sciences, Lanzhou University, China; Ph. D. research completed at Environmental Modeling Center, NCEP/NOAA, MD, USA
1997-1998 UCAR Postdoctoral Fellow, Environmental Modeling Center, NCEP, NOAA

APPOINTMENTS

2021-present Member, NOAA Science Advisory Board, National Oceanic Atmospheric Administration (NOAA), U. S. Department of Commerce
2022-present Adjunct Professor, Kahlert School of Computing, University of Utah
2014-present Professor, Department of Atmospheric Sciences, University of Utah
2011-present Affiliated Faculty, Global Change and Sustainability Center, University of Utah
2010-2014 Associate Professor, Dept. of Atmospheric Sciences, University of Utah
2004-2010 Assistant Professor, Dept. of Atmospheric Sciences, University of Utah
2000-2004 Associate Research Scientist, Goddard Earth Sciences and Technology Center, University of Maryland, Baltimore County. Worked at NASA Goddard Space Flight Center, Greenbelt, MD
1998-2000 Research Scientist, Universities Space Research Association. Worked at NASA Goddard Space Flight Center, Greenbelt, MD

SELECTED HONORS AND AWARDS

2025 NASA Group Achievement Award to Convective Processes Experiment-AW and -CV.
2024 Faculty "Excellence in Research" Award, College of Science, University of Utah.
2023 Cohort member of the Provost's Banner Project for the Top 25 University Researchers. University of Utah
2018 Fellow of American Meteorological Society.
2016 Award of Appreciation for service as the Overall Program Co-Chair of the 96th American Meteorological Society Annual Meeting. American Meteorological Society.
2012 Outstanding Faculty Teaching Award, College of Mines and Earth Science, University of Utah.
2010 Fellow, Royal Meteorological Society, UK.
2006 Early Career Scientist Assembly, Visiting Research Award, NCAR.
2000 Outstanding Research Achievement Award, Code 912, Laboratory for Atmospheres, NASA Goddard Space Flight Center.

SELECTED COMMITTEE SERVICES

2023- External Advisory Committee Member, NSF NCAR Earth System Predictability Across Timescales.
2022 Chair, Review Panel for Princeton University's Cooperative Institution for Modeling of the Earth System (CIMES) with NOAA Geophysical Fluid Dynamics Laboratory.
2022- Conference Program Chairperson for 27th, 28th and 29th Conferences on Integrated

- Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS). 2023, 2024, 2025 American Meteorological Society Annual Meeting.
- 2021-2023 Executive Core Study Team (Leading Team) member, Congress mandated U. S. Priorities for Weather Research (PWR) Report.
- 2020- Leader, Tropical cyclone and data assimilation working group, NASA Cyclone Global Navigation Satellite System (CYGNSS) Satellite Mission.
- 2018-2022 Science advisory board member, UCAR Development Testbed Center (DTC).
- 2015-2016 Overall Program Chair, 96th American Meteorological Society (AMS) Annual Meeting, January 9-15, 2016, New Orleans, LA.
- 2012-2015 Chair, American Meteorological Society annual meeting oversight committee.
- 2006-2012 Member, AMS Weather Analysis and Forecasting Committee

SELECTED INVITED TALKS AND LECTURES

- Invited Seminar, "*All-Sky Assimilation of GOES-16 Water Vapor Channels with Bias Correction and Consideration of Cloud-Dependent Inter-channel Observation Error Correlations*". NASA Global Modeling and Data Assimilation Office. September 24, 2024,
- Invited Seminar, "*Assimilation of CYGNSS data for improved understanding and prediction of tropical cyclones*". NOAA NCEP Environmental Modeling Center. August 8, 2024.
- Invited Lecturer, 7th Ewha International School on Data Assimilation (EISDA 2024), Ewha Woman's University, South Korea. July 1-4, 2024.
- Invited Keynote, "*Harmonizing Earth System Dynamics: Coupled Data Assimilation for Earth System Modeling Across Time Scales*". UCAR Community Workshop on Earth System Predictability Across Time Scales. Boulder, CO. April 10-12, 2024.
- Invited Town Hall Meeting Panelists: "*Exploring the Challenges and Opportunities in the Satellite Data Value Chain: Linking Satellite Instruments to Applied Use*". 104th AMS Annual Meeting. January 31, 2024. Baltimore, MD.
- Invited Seminar, "*Enhancing Prediction of Landfalling Hurricanes Through Advanced Data Assimilation and Improved PBL Parameterization*". National Taiwan University, Nov. 3, 2023.
- Invited Seminar, "*Cold Fog Amongst Complex Terrain (CFACT): Observations, Modeling and Prediction of Cold Fog*". NCAR Earth Observing Laboratory, March 28, 2023.
- Invited Talk "*Land-atmosphere interactions in numerical weather and climate Prediction. Perspectives from coupled land-atmosphere data assimilation*". AGU Fall Meeting, December 1-17, 2020.

SYNERGISTIC ACTIVITIES

- Teaching and mentoring both undergraduate and graduate students. Supervised the completion of 28 Ph.D. and M.S. degrees, as well as over 20 early-career scientists.
- Published one translated textbook, eight book chapters, and over 130 peer-reviewed journal articles. One textbook is currently in press.
- Led 40 federal-supported research projects as Principal Investigator (PI).
- Mission Support Scientist for 15 field programs. PI for NSF Cold Fog Amongst Complex Terrain (CFACT) field campaign and science program.

CURRENT EDITORSHIPS

- 2016-present Editor, *Weather and Forecasting*, American Meteorological Society
- 2016-present Editor, *Journal of Meteorological Research*, Springer Publisher and Chinese Meteorological Society