

Prof. Dr. Lixin WU

Vice President, Ocean University of China
238 Songling RD, Qingdao, 266100, China

E-mail: lxwu@ouc.edu.cn

Website: <http://lwu.qnlm.ac/index> ORCID: <https://orcid.org/0000-0002-4694-5531>

Fields of research/expertise

- Dynamics of ocean general circulation
- Ocean-atmosphere interaction and climate variability
- Ocean turbulence and mixing
- Modeling of global and regional climate system
- Development of ocean observational instruments and system

Degrees

- 1988 B.Sc in Mechanical Engineering, Tsinghua University, China
- 1991 M.Sc in Mechanics, Peking University, China
- 1994 PhD in Mechanics, Peking University, China

Present and Previous Positions

- 2020- Director, Frontiers Science Center for Deep Ocean Multispheres and Earth System, MOE, China
- 2018- Dean, Institute for Advanced Ocean Study, Ocean University of China, OUC, China
- 2015- Vice President, Ocean University of China, China
- 2011-2021 Director, Center for Sino-German Cooperation in Marine Sciences, China
- 2010- Director, Key Laboratory of Physical Oceanography, MOE, Ocean University of China, China
- 2005- Chair Professor, Key Laboratory of Physical Oceanography, MOE, Ocean University of China, China
- 1995-2005 Research Scientist, Department of Atmospheric and Oceanic Science, UW-Madison, USA
- 1994-1995 Postdoctoral Associate, Laboratory for Visualization and Reduced Modeling, Rutgers University, NJ, USA

Honors and Awards

- 2023 Fellow, European Academy of Sciences, EurASc
- 2022 Recipient, Distinguished Professionals Award, Shandong Province, China
- 2019 Recipient, Ambassador Award, American Geophysical Union, AGU
- 2019 Fellow, American Geophysical Union, AGU
- 2019 Fellow, The World Academy of Sciences, TWAS
- 2018 Recipient, Second Prize, National Natural Science Award, China
- 2018 Recipient, Highest Science and Technology Award, Shandong Province, China
- 2017 Recipient, National Award for Innovation and Advance, China
- 2016 Recipient, First Prize of Natural Sciences by the State Ministry of Education, China
- 2015 Recipient, National Outstanding Individual, State Council, and CPC Central Committee, China
- 2014 Recipient, National Labor Model, All-China Federation of Trade Unions, China
- 2013 Fellow, Chinese Academy of Sciences (CAS), China
- 2011 Distinguished Professor, Chang Jiang Scholars Program, Ministry of Education, China
- 2007 Recipient, National Funds for Distinguished Young Scientists of China

Memberships

- Member, CLIVAR NPOCE Scientific Steering Committee
- Member, CLIVAR Pacific Panel
- Member, PICES Working Group 27: North Pacific Climate Variability and Change
- Member, CLIVAR Scientific Steering Group
- Member of Editorial Board, Scientia Sinica Terrae
- Member, Chinese Meteorological Society, China
- Member of Editorial Board, Chinese Journal of Oceanography and Limnology

Community Work and Advisory Boards

- Member of Scientific Advisory Board, Cluster of Excellence “The Future Ocean”, Germany
- Chair, Project Steering Group, Air-Sea Interaction in the Kuroshio Extension and its Climate Impact, IOC Sub-Commission for the Western Pacific (WESTPAC)
- Member, 2nd Awarding Committee for Research Excellence of Institutions for Higher Learning, Ministry of Education, China
- Member, Standing Committee, Division of Earth Sciences, Chinese Academy of Sciences, China
- Member, Research Program Evaluation Committee, National Key Programs of Basic Research, Ministry of Science and Technology, China
- Member, Panel of Academic Discipline Evaluation, State Council Academic Degrees Committee, Ministry of Education, China
- Chair, Academic Committee, State Key Laboratory of Marine Environmental Science, Xiamen University, China
- Chair, Academic Committee, State Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, Chinese Academy of Sciences, China (SCIO, CAS)
- Executive Chair, Academic Committee, Ocean University of China, China
- Vice Chair, Scientific Committee, Key Laboratory of Ocean Circulation and Waves, Institute of Oceanology, Chinese Academy of Sciences, China
- Council Member, Chinese Society for Oceanography and Limnology, China

PI of Research Projects (budget in CNY)

National Natural Science Foundation of China

- 2006-2008 Role of North Pacific Ocean Circulation adjustment in decadal climate change, 390k
- 2008-2011 Physical oceanography, 2mil
- 2009-2012 Key process of low-altitude west boundary currents in low-frequency variability of warm pool
- 2010-2017 Evolution mechanisms of ocean dynamic process and its role in climate change (I-III), 18mil
- 2010-2012 Boundary dynamics: Connection with open ocean and coastal seas, Climate Impacts, 50k
- 2012-2016 Mechanisms and predictability of Pacific Decadal Oscillation, 3.1mil
- 2014-2016 Physical Oceanography and Climate, 20mil
- 2015-2019 Deep Ocean Smart Float, 82mil
- 2018-2022 Inter-Sphere Interactions of the Earth System in the West Pacific Ocean, 200mil

Ministry of Science and Technology, China

- 2013-2017 Processes and mechanisms of multi-scale marine variability in the Northwest Pacific and its predictability, 26mil
- 2007-2011 National Basic Research Program of China (Program 973): Variability of Subtropical North Pacific Ocean Circulation and its impacts on dynamic environment of China Marginal Seas, 32mil

Shandong Province

- 2008-2010 Impacts of ocean circulation on decadal climate change, 500k

Advisees

Current PhD advisees: 15 Previous PhD advisees: 30

Current MSc advisees: 7 Previous MSc advisees: 11

Publications

Until 07/2023, Prof. WU has published 213 items in peer-reviewed journals and books.

http://lwu.qnlm.ac/index?module=peer_review&title=Publications