

Qingyun DUAN

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AREAS OF TEACHING AND RESEARCH INTERESTS:

Surface hydrology, hydrologic model development and calibration, hydrological ensemble forecasting, statistical methods for uncertainty analyses of large complex system models, climate change impacts on hydrology and water resources

EDUCATION:

Ph.D. Hydrology, University of Arizona, Tucson, Arizona, 8/87 - 9/91

M.S. Water Resources Administration, University of Arizona, 9/84 - 7/87

B.S. Hydro Power Engineering, Wuhan Inst. Of Hydraulic & Electric Eng./Wuhan University, Wuhan, China, 10/78 - 7/82

EMPLOYMENT:

06/19-present **Chair Professor**, College of Hydrology and Water Resources, Hohai University, Nanjing, China

12/19-present **Disciplinary PI**, Watershed Processes and Water Hazards Mitigation, State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering, Nanjing, China

01/17-present **Chair Professor**, Institute of Land Surface System and Sustainable Development, Faculty of Geographical Science, Beijing Normal University, Beijing, China

09/09-01/17 **Chair Professor & Chief Scientist for Hydrology and Water Resources**, College of Global Change & Earth System Sciences, Beijing Normal University, Beijing, China

01/04-09/09 **Research Scientist**, Atmosphere, Earth and Energy Division, Lawrence Livermore National Laboratory, Livermore, California

06/97-12/03 **Group Leader and Research Scientist, Special Projects Group, Hydrology Laboratory, NOAA, Silver Spring, Maryland**

10/94-05/97 **Project Scientist**, GCIP Core Project, Office of Hydrology, UCAR Offsite at NOAA, Silver Spring, Maryland

07/92-09/94 **National Research Council Postdoctoral Fellow**, Hydrologic Research Laboratory, NWS/NOAA, Silver Spring, Maryland

09/91-06/92 **Postdoctoral Research Associate**, University of Arizona, Tucson, Arizona

SELECTED HONORS AND AWARDS:

Clavirate World's Highly Cited Scientist in Cross Field, 2022;

Elsevier Highly Cited Chinese Scientist: 2019, 2020, 2021;

Vebleo Fellow, 2021;

AOGS 2018 Distinguished Lecture in Hydrological Science, Asia Oceania Geosciences Society;
Dayu Water Science and Technology Award, First Prize, Chinese Hydraulic Engineering Society, 2022, 2016;

Elected American Meteorological Society Fellow, 2015 Class;

Elected American Geophysical Union Fellow, 2012 Class;

Gold Award for contribution to Yucca Mountain Preclosure Safety Assessment Project, Lawrence Livermore National Laboratory, 2008;

MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS:

American Geophysical Union, American Meteorological Society, Asia Oceania Geophysics Society, Chinese Society of Geography, Chinese Meteorological Society, European Geophysical Union, International Association of Hydrological Sciences, International Professionals for Advancement of Chinese Earth Sciences, Society for Industrial and Applied Mathematics, International Environmental Modeling Society.

SERVICES TO ACADEMIC AND SCIENTIFIC COMMUNITIES:

Journal Editor/Associate Editor/Editorial Board Member: Reviews of Geophysics (Editor), Bulletin of American Meteorological Society (Hydrology Editor), Environmental Modeling & Software (Board), Environmental Research Communications (Executive Editorial Board), Water Resources Research (AE), Disaster Prevention & Resilience (Board), Advance in Water Science (Board), Editor-in-Chief for Handbook of Hydrometeorological Ensemble Forecasting (Springer Major Reference Series), Editor-in-Chief for Calibration of Watershed Model Calibration (AGU Water Science & Application Series).

Academic and Scientific Society Services: AGU Hydrology Section Fellows Committee, AGU College of Fellows Executive Committee (former Chair), AGU College of Fellows Distinguished Lecture Series Committee, AGU College of Fellows International Hub Leader for China, AGU Global Change Section Canvassing Committee, AGU Meeting Committee Global Energy and Water Exchanges (GEWEX) Science Steering Group, World Climate Research Programme (WCRP) Academy Science Steering Group, Hydrological Ensemble Prediction Experiment (HEPEX) Science Steering Group; Co-Chair of Program Committee of 2006 Western Pacific Geophysics Meeting in Beijing, American Geophysical Union.

FIVE SELECTED RECENT PUBLICATIONS (*CORRESPONDING AUTHOR):

Fan, X., Duan*, Q., Shen, C., Wu, Y., Xing, C., 2022. Evaluation of historical CMIP6 model simulations and future projections of temperature over the Pan-Third Pole region. *Environ Sci Pollut Res* 29, 26214–26229. <https://doi.org/10.1007/s11356-021-17474-7>

Li, W., Pan, B., Xia, J., Duan*, Q., 2022. Convolutional neural network-based statistical post-processing of ensemble precipitation forecasts, *Journal of Hydrology*, <https://doi.org/10.1016/j.jhydrol.2021.127301>

Liu, S., Liu, Z., Duan*, Q., Huang B., 2022. The performance of CMIP6 models in simulating surface energy fluxes over global continents. *Climate Dynamics*. <https://doi.org/10.1007/s00382-022-06595-5>

Sun, R., Duan*, Q., Mao, X., 2022. A multi-objective adaptive surrogate modelling-based optimization algorithm for constrained hybrid problems, *Environmental Modelling & Software*, <https://doi.org/10.1016/j.envsoft.2021.105272>

Sun, R., Duan*, Q., Huo, X., 2021. Multi-Objective Adaptive Surrogate Modeling-Based Optimization for Distributed Environmental Models Based on Grid Sampling, *Water Resources Research*, <https://doi.org/10.1029/2020WR028740>

PUBLICATION STATISTICS:

Referred Journal Articles 210; Referred Book Chapters: 15; Invited Conference Presentations: 65; Editor of 5 Books in Hydrology and Water Resources; Google Scholar total citations: 30830, H-Index: 69 (as of 12/31/2022)