

ZONG-LIANG YANG

Professor

Department of Geological Sciences, Jackson School of Geosciences
The University of Texas at Austin, Austin, Texas 78712
(512) 471 3824 (phone number)
liang@jsg.utexas.edu

PROFESSIONAL PREPARATION

Nanjing Institute of Meteorology (Nanjing, China)	Meteorology	B.S. 1980 – 1984
Melbourne University (Melbourne, Australia)	Meteorology	M.S. 1986 – 1989
Macquarie University (Sydney, Australia)	Atmospheric Sciences	Ph.D. 1989 – 1992

APPOINTMENTS

2011–	John A. and Katherine G. Jackson Chair in Earth System Science
2011–	Founding Director, Center for Integrated Earth System Science, UT-Austin
2008–	Professor (with tenure), University of Texas at Austin
2005–2008	Associate Professor (with tenure), University of Texas at Austin
2001–2005	Assistant Professor, University of Texas at Austin
1993–2001	Postdoc to Research Associate Professor, University of Arizona
1992–1993	Research Associate, Macquarie University, Sydney, Australia

SELECTED PUBLICATIONS

FIVE SIGNIFICANT PUBLICATIONS RELATED TO THIS PROJECT

STUDENTS UNDERLINED, * DENOTES POSTDOCS

190+ PEER-REVIEWED JOURNAL ARTICLES

RESEARCHERID B-4916-2011

ORCID 0000-0003-3030-0330

PUBLONS.COM/RESEARCHER/2809759/ZONG-LIANG-YANG/

- Lin, P. R., Z.-L. Yang, D. J. Gochis, W. Yu, D. R. Maidment, M. A. Somos-Valenzuela, and C. H. David, 2018: Implementation of a vector-based river network routing scheme in the community WRF-Hydro modeling framework for flood discharge simulation, *Environmental Modelling and Software* **107**, 1–11, <https://doi.org/10.1016/j.envsoft.2018.05.018>.
- Quinn, N., Z.-L. Yang, 2019: Review of Hydrodynamics and Water Quality: Modeling Rivers, Lakes, and Estuaries by Zhen-Gang Ji. Second edition, *Environmental Modelling and Software*, **115**, 211–212, doi: 10.1016/j.envsoft.2019.02.004.
- Yang, Z.-L., 2015: Foreword to the special issue: regional earth system modeling, *Climatic Change*, **129** (3–4), 365–368.
- Zhao, L.*, Z.-L. Yang, and T. J. Hoar, 2016: Global soil moisture estimation by assimilating AMSR-E brightness temperatures in a coupled CLM4-RTM-DART system, *Journal of Hydrometeorology*, **17** (9), 2431–2454, doi: 10.1175/JHM-D-15-0218.1.
- Zheng, H., Z.-L. Yang, P. Lin, W.-Y. Wu, L. Li, Z. Xu, J. F. Wei, L. Zhao, Q. Y. Bian, and S. Wang, 2020: Falsification-oriented signature-based evaluation for guiding the development of land surface models and the enhancement of observations, *Journal of Advances in Modeling Earth Systems*, **12** (12), e2020MS002132. <https://doi.org/10.1029/2020MS002132>.

FIVE OTHER RELATED PUBLICATIONS

- Chen, W.-J.*, C.-L. Huang, Z.-L. Yang, 2021: More severe drought detected by the assimilation of brightness temperature and terrestrial water storage anomalies in Texas during 2010–2013, *Journal of Hydrology*, **603**, 126802, <https://doi.org/10.1016/j.jhydrol.2021.126802>.

- Rosero, E., Z.-L. Yang, T. Wagener, L. E. Gulden, S. Yatheendradas, and G.-Y. Niu*, 2010: Quantifying parameter sensitivity, interaction and transferability in hydrologically enhanced versions of Noah-LSM over transition zones, *J. Geophys. Res.*, **115**, D03106.
- Wang, L. and **Z.-L. Yang**, 2020: Changes of Land-use under Anthropogenic Influences, *Oxford Research Encyclopedia of Environmental Science*, doi: 10.1093/acrefore/9780199389414.013.37.
- Wu, W.-Y., Z.-L. Yang, and M. Barlage, 2021: The impact of Noah-MP physical parameterizations on modeling water availability during droughts in the Texas Gulf region, *Journal of Hydrometeorology*, **22**, <https://doi.org/10.1175/JHM-D-20-0189.1>
- Yang, Z.-L.**, G.-Y. Niu*, K. E. Mitchell, F. Chen, M. B. Ek, M. Barlage, L. Longuevergne, K. Manning, D. Niyogi, M. Tewari, and Y.-L. Xia, 2011: The community Noah land surface model with multiparameterization options (Noah-MP): 2. Evaluation over global river basins, *J. Geophys. Res.*, **116**, D12110, doi:10.1029/2010JD015140.

SYNERGISTIC ACTIVITIES

- Section Editor-in-Chief, *Water and Climate Change*, *MDPI Journal Water*, 2021–present
- Editor, *Journal of Meteorological Research*, 2014–present
- Editor, *Advances in Atmospheric Sciences*, 2020–present
- Associate Editor, *Journal of Geophysical Research–Atmospheres*, 2019–present
- Co-Chair of the NCAR Community Climate System Model (CCSM) Land Working Group (LandWG), 2008–2013