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Education:

B.S., Meteorology, Beijing University, 1983
M.S., Meteorology, Chinese Academy of Meteorological Sciences, 1986
Ph.D., Meteorology, University of Hawaii at Manoa, 1993

Employment (1993-present):

Post-doc, GFDL, Princeton University, Princeton, NJ, 1993-1995
Visiting Scientist, Naval Research Laboratory, Monterey, CA, 1995-1997
Research Assistant Professor, Naval Postgraduate School, Monterey, 1997 - 1999
Associate Professor, University of Hawaii, Honolulu, Hawaii, 1999 – 2004
Professor, University of Hawaii, Honolulu, Hawaii, 2004 – present

Research interest:

General research interest areas are tropical meteorology, climate dynamics, atmosphere-ocean interaction and numerical weather prediction. The current research topics include: (1) Dynamics of ENSO and inter-basin teleconnection, (2) Asian-Australian monsoon and Tropospheric Biennial Oscillation (TBO), (3) Climate changes under global warming, (4) Madden-Julian Oscillation (MJO), (5) Tropical cyclone, and (6) Eddy-mean flow interaction.

Publication list:

404. Ham, Yoo-Geun, Ji-Gwang Kim, Jeong-Gil Lee, Tim Li, et al., 2021: The Origin of Systematic Forecast Errors of Extreme 2020 East Asian Summer Monsoon Rainfall in GloSea5. GRL, in press.
403. Yan, Z., B. Wu and T. Li, 2021: Mechanisms determining diversity of ENSO-driven equatorial precipitation anomalies. J. Climate, in press.
402. Li T., Y.-H. Wang, B. Wang, M.-F. Ting, Y.-H. Ding, Ying Sun, C. He and G. Yang. (2021) Distinctive South and East Asian monsoon circulation responses to global warming. Science Bulletin, in press.
<https://doi.org/10.1016/j.scib.2021.12.001>
401. Cui, J.-X., T. Li, 2021: Changes in MJO characteristics and impacts in the past century. J. Climate, in press. IPRC Publication # 1543, SOEST no. 11417
400. Shou, H.-R., T. Li, Y. Sun, L. Wang, J. Liu, 2021: Decreasing Trend of Western North Pacific Tropical Cyclone Inner-Core Size over the Past Decades. Journal of Meteorological Research, 35(4), 635-645. DOI: [10.1007/s13351-021-0214-z](https://doi.org/10.1007/s13351-021-0214-z)

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398. Cheng, Yifeng, Lu Wang, and Tim Li, 2021: Two Distinct Types of 10-30-day Persistent Heavy Rainfall Events over the Yangtze River Valley. *J. Climate*, DOI: [10.1175/JCLI-D-20-0741.1](https://doi.org/10.1175/JCLI-D-20-0741.1)
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396. Zhang, Chao, T. Li, S.-L. Li, 2021: Impacts of CP- and EP-El Niño events on the Antarctic sea ice in austral spring. *J. Climate*, in press.
395. Wang, H., Y. Dai, S. Yang, T. Li, J. Luo, B. Sun, M. Duan, J. Ma, Z. Yin, and Y. Huang, 2021: Predicting climate anomalies: a real challenge. *Atmos. Ocean. Science Lett.*, DOI: <https://doi.org/10.1016/j.aosl.2021.100115>
394. Wang, X.-Y., T. Li, C. He, 2021: Impact of the mean state on El Niño induced western North Pacific anomalous anticyclone during its decaying summer in AMIP models. *J. Climate*, in press.
393. Hou, Q.-Y., Z.-H. Jiang, T. Li, L. Li, 2021: Divergent Responses of Summer Precipitation in China to 1.5°C Global Warming in Transient and Stabilized Scenarios. *Earth's Future*, in press. DOI: [10.1029/2020EF001832](https://doi.org/10.1029/2020EF001832)
392. Gong, Y.-H., T. Li, 2021: Mechanism for Southward Shift of Zonal Wind Anomalies During the Mature Phase of ENSO. *J. Climate*, in press.
391. Ham, Y.-G., Ji-Gwang Kim, Jeong-Gil Lee, Tim Li, Myong-In Lee, Seok-Woo Son, and Yu-Kyung Hyun, 2021: The origin of systematic forecast errors of extreme 2020 East Asian Summer Monsoon rainfall in GloSea5. *Geophysical Research Letters*.
390. Li, T., Ed., 2021: Asia [in “State of the Climate in 2020”]. *Bull. Amer. Meteor. Soc.*, 102 (8), Sx–Sx, https://doi.org/10.1175/2021BAMSStateoftheClimate_Chapter7.1
389. Bissolli, P., C. Ganter, T. Li, A. Mekonnen, and A. Sánchez-Lugo, Eds., 2021: Regional Climates [in “State of the Climate in 2020”]. *Bull. Amer. Meteor. Soc.*, 102 (8), Sx–Sx, https://doi.org/10.1175/2021BAMSStateoftheClimate_Chapter7.1
388. Li, Z.-B., Y. Sun, T. Li, W. Chen, and Y.-H. Ding, 2021: Projections of South Asian Summer Monsoon Under Global Warming from 1.5° to 5°C. *J. Climate*, 34, 7913-7926. DOI: [10.1175/JCLI-D-20-0547.1](https://doi.org/10.1175/JCLI-D-20-0547.1)
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386. Liu, Q., T. Li, and W. Zhou, 2021: Impacts of Multi-Timescale Circulations on Meridional Moisture Transport, *J. Climate*, 34, 8065-8085. DOI: <https://doi.org/10.1175/JCLI-D-20-0126.1>
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376. Pan, X., T. Li, Y. Sun, and Z.W. Zhu, 2021: Cause of extreme heavy and persistent rainfall over Yangtze River in summer 2020. *Advances in Atmospheric Sciences*, in press. IPRC Publication # 1524, SOEST no. 11354, DOI: 10.1007/s00376-021-0433-3
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365. Ma, Mengyuan, and Tim Li, 2020: Effect of a Low-frequency Vortex on the Size of Typhoon Lan (2017), *Monthly Weather Review*, 149, 521-536. IPRC Publication # 1491, SOEST # 11202. DOI: <https://doi.org/10.1175/MWR-D-20-0200.1>
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359. Ma, C., T. Li, 2020: Effects of Perturbation Type on Tropical Cyclone Size over Tropical North Western Pacific and Atlantic. *Climate Dynamics*, 56(1), 475-489. DOI: 10.1007/s00382-020-05488-9
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Services/awards in national and international communities:

Panel member, World Meteorological Organization WWRP Monsoon Panel, 2017 -

Panel member, CLIVAR AMIP East Asian Climate (EAC) Panel, 2005 -
Affiliated Scientist, APEC Climate Center, Bussan, South Korea, 2006 -

University of Hawaii Board of Regent (BOR) Medal for Excellence in Research, 2019
2021 Excellence in Paper Citation Award, Terr. Atmos. Ocean. Sci., Chinese Geoscience
Union Annual Meeting

Editor, Journal of Climate, 2015 -
Editor, Earth-Science Reviews, 2015 - 2017
Editor, Dynamics of Atmospheres and Oceans, 2014 - 2017
Co-Chief Editor, Journal of Meteorological Research, 2017 -
Editor, BAMS State of the Climate, 2017 -

Current research grants:

NSF, ENSO interaction with tropical Atlantic and Indian Oceans, 7/1/2020 - 6/30/2023,
\$599,399.
NOAA, Upscale Feedback of Higher-Frequency Modes to MJO over Maritime Continent,
7/1/2018 - 6/30/2022, \$366,406.
NSF, Zonal Asymmetry of Moist Static Energy Tendency and MJO Eastward
Propagation in Climate Models, 7/1/2017 - 6/30/2021, \$407,662.

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