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Assistant Professor

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EDUCATION

Ph.D. in Civil, Environmental and Sustainable Engineering Arizona State University, Tempe, AZ, USA <i>Dissertation: Participatory Roles of Urban Trees in Regulating Environmental Quality</i>	2019
M.S.E. in Civil, Environmental and Sustainable Engineering Arizona State University, Tempe, AZ, USA	2018
B. Eng. in Hydrology and Water Resources Engineering China Three Gorges University, Yichang, China <i>Thesis: Discharge Response to Climate Change and Land Use Change in Qingjiang River Basin</i>	2015
Visiting Student in Environmental Science The Ohio State University, Columbus, OH, USA Hubei Higher Education Outstanding Student Overseas Study Program (2013), sponsored by the Ministry of Education of Hubei Province, China (68 out of over 1 million college students)	2013

ACADEMIC APPOINTMENTS

Assistant Professor School of Meteorology, University of Oklahoma, Norman, OK, USA	2022.08–present
Assistant Professor Department of Geography and Environmental Sustainability, University of Oklahoma, Norman, OK, USA	2022.08–present
Postdoctoral Research Fellow Advisor: Dr. Robert B. Jackson (Jackson Lab: https://jacksonlab.stanford.edu/) Department of Earth System Science & Stanford Woods Institute for the Environment, Stanford University, Stanford, CA, USA	2020.01–2022.08
New Map of Life Fellow, Environment and Climate Domain (2019 Cohort) The New Map of Life Initiative (http://longevity.stanford.edu/a-new-map-of-life/) Stanford Center on Longevity, Stanford University, Stanford, CA, USA	2020.01–2021.09
Graduate Research Associate Advisor: Dr. Zhihua Wang (Urban Environment Research Group: http://www.public.asu.edu/~zwang159/) School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, AZ, USA	2015.08–2019.12
Undergraduate Research Assistant Advisor: Dr. Shangbin Xiao College of Hydraulic and Environmental Engineering China Three Gorges University, Yichang, China	2013.09–2015.07

RESEARCH INTERESTS

Urban Meteorology and Climatology, Boundary-Layer Meteorology, Atmospheric Transport and Dispersion, Hydrometeorology, Land–Atmosphere Interactions, Sustainable Urban Development, Complex Networks and Systems, Energy Consumption, Hydrologic Modeling, Biogeochemistry (Greenhouse Gases)

PEER-REVIEWED JOURNAL PUBLICATIONS

(*: Corresponding Author; †: Equal Contribution)

1. Li, Y.*, **Wang, C.**, Huang, R., Yan, D., Peng, H.*, & Xiao, S. (2022). Spatial distribution of oceanic moisture contributions to precipitation over the Tibetan Plateau. *Hydrology and Earth System Sciences*, 26(24), 6413–6426. <https://doi.org/10.5194/hess-26-6413-2022>.
2. Yang, S., Liu, J.*, **Wang, C.**, Zhang, T., Dong, X., & Liu, Y. (2022). Vegetation dynamics influenced by climate change and human activities in the Hanjiang River Basin, central China. *Ecological Indicators*, 145, 109586. <https://doi.org/10.1016/j.ecolind.2022.109586>.
3. Huang, X., Song, J.*, **Wang, C.**, & Chan, P. W. (2022). Realistic representation of city street-level human thermal stress via a new urban climate-human coupling system. *Renewable and Sustainable Energy Reviews*, 169, 112919. <https://doi.org/10.1016/j.rser.2022.112919>.
4. Yang, X., Wang, Z.-H.*, **Wang, C.**, & Lai, Y.-C. (2022). Detecting the causal influence of thermal environments among climate regions in the United States. *Journal of Environmental Management*, 322, 116001. <https://doi.org/10.1016/j.jenvman.2022.116001>.
5. Ouyang, Z.*, Sciusco, P., Tong, J., Feron, S., Lei, C., Li, F., John, R., Fan, P., Li, X., Williams, C., Chen, G., **Wang, C.**, & Chen, J.* (2022). Albedo changes caused by future urbanization contribute to global warming. *Nature Communications*, 13, 3800. <https://doi.org/10.1038/s41467-022-31558-z>.
6. **Wang, C.***, Miller, J., Jackson, R. B., & Carstensen L. L. (2022). Combating climate change in an era of longevity. *Generations Journal*, 46(2), 1–10. <https://generations.asaging.org/combating-climate-change-era-longevity>.
7. Jackson, R. B.*, Ahlström, A., Hugelius, G., **Wang, C.**, Porporato, A., Ramaswami, A., Roy, J., & Yin, J. (2022). Human well-being and per capita energy use. *Ecosphere*, 13(4), e3978. <https://doi.org/10.1002/ecs2.3978>. [See Media Coverage]
8. Yang, X., Wang, Z.-H.*, & **Wang, C.** (2022). Critical transitions in the hydrological system: early-warning signals and network analysis. *Hydrology and Earth System Sciences*, 26(7), 1845–1856. <https://doi.org/10.5194/hess-26-1845-2022>.
9. Cordero, R. R., Sepúlveda, E., Feron, S.*, **Wang, C.**, Damiani, A., Fernandoy, F., Neshyba, S., Rowe, P. M., Asencio, V., Carrasco, J., Alfonso, J. A., MacDonell, S., Sechmeyer, G., Carrera, J. M., Jorquera, Llanillo, P., J., Dana, J., Khan, A. L., & Casassa, G. (2022). Black carbon in the Southern Andean snowpack. *Environmental Research Letters*, 17(4), 044042. <https://doi.org/10.1088/1748-9326/ac5df0>. [See Media Coverage in Spanish]
10. Cordero, R. R., Sepúlveda, E., Feron, S.*, Damiani, A.*, Fernandoy, F., Neshyba, S., Rowe, P. M., Asencio, V., Carrasco, J., Alfonso, J. A., Llanillo, P., Wachter, P., Sechmeyer, G., Stepanova, M.*, Carrera, J. M., Jorquera, J., **Wang, C.**, Malhotra, A., Dana, J., Khan, A. L., & Casassa, G. (2022). Black carbon footprint of human presence in Antarctica. *Nature Communications*, 13, 984. <https://doi.org/10.1038/s41467-022-28560-w>. [See Media Coverage]
11. **Wang, C.***, Sierra Huertas, D., Rowe, J. W., Finkelstein, R., Carstensen, L. L., & Jackson, R. B. (2021). Rethinking the urban physical environment for century-long lives: from age-friendly to

- longevity-ready cities. *Nature Aging*, 1, 1088–1095. <https://doi.org/10.1038/s43587-021-00140-5>. [[See Media Coverage](#)]
12. Liu, J., Xiao, S.*, **Wang, C.**, Yang, Z.*, Liu, D. Guo, X., Liu, L., & Lorke, A. (2021). Spatial and temporal variability of dissolved methane concentrations and diffusive emissions in the Three Gorges Reservoir. *Water Research*, 207, 117788. <https://doi.org/10.1016/j.watres.2021.117788>.
 13. Li, Y., **Wang, C.**, & Su, F.* (2021). Evaluation of CMIP6 models over two Third Pole subregions with contrasting circulation systems. *Journal of Climate*, 34(22), 9133–9152. <https://doi.org/10.1175/JCLI-D-21-0214.1>.
 14. Cordero, R. R., Feron, S.*, Sepúlveda, E., Damiani, A., Carrera, J. M., Jorquera, J., Alfonso, J. A., Fuenzalida, R., Rivas, M., MacDonell, S., Sechmeyer, G., **Wang, C.**, Ouyang, Z., & Lhermitte, S. (2021). Evaluation of MODIS-derived estimates of the albedo over the Atacama Desert using ground-based spectral measurements. *Scientific Reports*, 11, 19822. <https://doi.org/10.1038/s41598-021-98622-4>. [[See Media Coverage in Spanish](#)]
 15. Li, Y., **Wang, C.**, Peng, H., Xiao, S., & Yan, D.* (2021). Contribution of moisture sources to precipitation changes in the Three Gorges Reservoir Region. *Hydrology and Earth System Sciences*, 25(9), 4759–4772. <https://doi.org/10.5194/hess-25-4759-2021>. [[See Media Coverage in Chinese](#)]
 16. Huang, X., Song, J.*, **Wang, C.**, Chui, T. F. M., & Chan, P. W. (2021). The synergistic effect of urban heat and moisture islands in a compact high-rise city. *Building and Environment*, 205, 108274. <https://doi.org/10.1016/j.buildenv.2021.108274>.
 17. Wang, Z.-H.*, **Wang, C.**, & Yang, X. (2021). Dynamic synchronization of extreme heat in complex climate networks in the contiguous United States. *Urban Climate*, 38, 100909. <https://doi.org/10.1016/j.uclim.2021.100909>.
 18. **Wang, C.***, Wang, Z.-H., Kaloush, K. E., & Shacat, J. (2021). Cool pavements for urban heat island mitigation: A synthetic review. *Renewable and Sustainable Energy Reviews*, 146, 111171. <https://doi.org/10.1016/j.rser.2021.111171>.
 19. **Wang, C.***, Wang, Z.-H., & Ryu, Y.-H. (2021). A single-layer urban canopy model with transmissive radiation exchange between trees and street canyons. *Building and Environment*, 191, 107593. <https://doi.org/10.1016/j.buildenv.2021.107593>. [[See Media Coverage in Chinese](#)]
 20. **Wang, C.***, Wang, Z.-H., Kaloush, K. E., & Shacat, J. (2021). Perceptions of urban heat island mitigation and implementation strategies: survey and gap analysis. *Sustainable Cities and Society*, 66, 102687. <https://doi.org/10.1016/j.scs.2020.102687>. [[See Media Coverage in Chinese](#)]
 21. Zhang, F.[†], **Wang, C.[†]**, & Wang, Z.-H.* (2020). Responses of natural vegetation to climate in dryland ecosystems: A case study between Xinjiang and Arizona. *Remote Sensing*, 12(21), 3567. <https://doi.org/10.3390/rs12213567>.
 22. **Wang, C.**, Wang, Z.-H.*, & Li, Q. (2020). Emergence of urban clustering among U.S. cities under environmental stressors. *Sustainable Cities and Society*, 63, 102481. <https://doi.org/10.1016/j.scs.2020.102481>. [[See Media Coverage in Chinese](#)]
 23. **Wang, C.**, Wang, Z.-H.*, & Sun, L. (2020). Early-warning signals for critical temperature transitions. *Geophysical Research Letters*, 47(14), e2020GL088503. <https://doi.org/10.1029/2020GL088503>. [[See Media Coverage](#)]
 24. **Wang, C.**, & Wang, Z.-H.* (2020). A network-based toolkit for evaluation and intercomparison of weather prediction and climate modeling. *Journal of Environmental Management*, 268, 110709. <https://doi.org/10.1016/j.jenvman.2020.110709>.

25. Yang, J.*[†], Hu, L.*[†], & **Wang, C.** (2019). Population dynamics modify urban residents' exposure to extreme temperatures across the United States. *Science Advances*, 5(12), eaay3452. <https://doi.org/10.1126/sciadv.aay3452>. [See Media Coverage]
26. **Wang, C.**, Wang, Z.-H.* & Yang, J. (2019). Urban water capacity: Irrigation for heat mitigation. *Computers, Environment and Urban Systems*, 78, 101397. <https://doi.org/10.1016/j.compenvurbsys.2019.101397>.
27. **Wang, C.**, Wang, Z.-H.* & Wang, C. Y., & Myint, S. W. (2019). Environmental cooling provided by urban trees under extreme heat and cold waves in U.S. cities. *Remote Sensing of Environment*, 227, 28–43. <https://doi.org/10.1016/j.rse.2019.03.024>. [See Media Coverage in Chinese]
28. **Wang, C.**, Li, Q., & Wang, Z.-H.* (2018). Quantifying the impact of urban trees on passive pollutant dispersion using a coupled large-eddy simulation–Lagrangian stochastic model. *Building and Environment*, 145, 33–49. <https://doi.org/10.1016/j.buildenv.2018.09.014>.
29. **Wang, C.**, Wang, Z.-H.* & Yang, J. (2018). Cooling effect of urban trees on the built environment of contiguous United States. *Earth's Future*, 6(8), 1066–1081. <https://doi.org/10.1029/2018EF000891>. [Featured as cover story]
30. Song, J.* & Wang, Z.-H., & **Wang, C.** (2018). The regional impact of urban heat mitigation strategies on planetary boundary-layer dynamics over a semiarid city. *Journal of Geophysical Research: Atmospheres*, 123(12), 6410–6422. <https://doi.org/10.1029/2018JD028302>.
31. **Wang, C.**, Wang, Z.-H.* & Yang, J., & Li, Q. (2018). A backward-Lagrangian-stochastic footprint model for the urban environment. *Boundary-Layer Meteorology*, 168, 59–80. <https://doi.org/10.1007/s10546-018-0338-6>.
32. **Wang, C.***, Wang, C. Y., Myint, S. W., & Wang, Z.-H. (2017). Landscape determinants of spatio-temporal patterns of aerosol optical depth in the two most polluted metropolitans in the United States. *Science of the Total Environment*, 609, 1556–1565. <https://doi.org/10.1016/j.scitotenv.2017.07.273>.
33. **Wang, C.**, & Wang, Z.-H.* (2017). Projecting population growth as a dynamic measure of regional urban warming. *Sustainable Cities and Society*, 32, 357–365. <https://doi.org/10.1016/j.scs.2017.04.010>.
34. Song, J.* & Wang, Z.-H., & **Wang, C.** (2017). Biospheric and anthropogenic contributors to atmospheric CO₂ variability in a residential neighborhood of Phoenix, Arizona. *Journal of Geophysical Research: Atmospheres*, 122(6), 3317–3329. <https://doi.org/10.1002/2016JD026267>.
35. Wang, Z.-H.* & Fan, C., Myint, S. W., & **Wang, C.** (2016). Size matters: What are the characteristic source areas for urban planning strategies? *PLoS One*, 11(11), e0165726. <https://doi.org/10.1371/journal.pone.0165726>.
36. Xiao, S.* & **Wang, C.**, Wilkinson, R. J., Liu, D., Zhang, C., Xu, W., Yang, Z., Wang, Y., & Lei, D. (2016). Theoretical model for diffusive greenhouse gas fluxes estimation across water-air interfaces measured with the static floating chamber method. *Atmospheric Environment*, 137, 45–52. <https://doi.org/10.1016/j.atmosenv.2016.04.036>.
37. **Wang, C.**, Liu, J.* & Dong, X., & Yu, D. (2016). Runoff response to RCP scenarios of CMIP5 climate change projections in Qingjiang River Basin. *Journal of Central China Normal University (Natural Sciences)*, 50(3), 449–456. <https://doi.org/10.3969/j.issn.1000-1190.2016.03.023>. (in Chinese)
38. **Wang, C.**, Liu, J.* & Dong, X., & Yu, D. (2016). Research of runoff change in Qingjiang River Basin based on CMIP5 climate model. *Water Resources and Power*, 34(7), 16–20. [Link](#). (in Chinese)
39. **Wang, C.***, & Li, X. (2015). Primary assessment of the daytime aquatic environment in summer at Three Gorges Reservoir and Yangtze River's Yichang section. *Science and Technology Innovation Herald*, 12(3), 111–114. <https://doi.org/10.3969/j.issn.1674-098X.2015.03.071>. (in Chinese)

40. Xiao, S.*†, Yang, H., Liu, D., Zhang, C., Lei, D., Wang, Y., Peng, F., Li, Y., **Wang, C.**, Li, X., Wu, G., & Liu, L. (2014). Gas transfer velocities of methane and carbon dioxide in a subtropical shallow pond. *Tellus B: Chemical and Physical Meteorology*, 66, 23795. <https://doi.org/10.3402/tellusb.v66.23795>.
41. Xiao, S.*†, Liu, W., Yang, H., Lei, D., Wang, Y., Peng, F., Li, Y., **Wang, C.**, Zhang C., Li, X., Wu, G., Liu, L., & Ouyang, K. (2014). Extreme methane bubbling emissions from a subtropical shallow eutrophic pond. *Austin Biometrics and Biostatistics*, 1(2), id1006. <http://doi.org/10.26420/austinbiomandbiostat.2014.1006>.
42. **Wang, C.**, Xiao, S.*†, Li, Y., Zhong, H., Li, X., & Peng, F. (2014). Methane formation and consumption processes in Xiangxi Bay of the Three Gorges Reservoir. *Scientific Reports*, 4, 4449. <https://doi.org/10.1038/srep04449>.
43. **Wang, C.*** (2014). Current research of sediment incipient motion velocity. *Science and Technology Innovation Herald*, 11(27): 32–36. <https://doi.org/10.3969/j.issn.1674-098X.2014.27.014>. (in Chinese)
44. **Wang, C.***, & Luo Z. (2012). An approach for calculating the outflow of a hydropower plant with guaranteed output under sparse data conditions. *New Technology & New Products of China*, 19: 70–71. <http://doi.org/10.3969/j.issn.1673-9957.2012.19.062>. (in Chinese)

PEER-REVIEWED CONFERENCE PUBLICATIONS

(*: Corresponding Author; †: Equal Contribution)

1. Zhu, B.*†, Lui, N.*†, Irvin, J.*†, Le, J., Tadwalkar, S., **Wang, C.**, Ouyang, Z., Liu, F. Y., Ng., A. Y., & Jackson, R. B. (2022). METER-ML: A multi-sensor Earth observation benchmark for automated methane source mapping. In Gruca, A., Robinson, C., Yokoya, N., Zhou, J., and Ghamisi, P. (Eds.), *Proceedings of the Second Workshop on Complex Data Challenges in Earth Observation (CDCEO 2022)*, pp. 33–43. <https://doi.org/10.48550/arXiv.2207.11166> or [CEUR-WS Vol-3207 Link](#). [Conference: IJCAI-ECAI 2022: the 31st International Joint Conference on Artificial Intelligence and the 25th European Conference on Artificial Intelligence. Vienna, Austria, July 23–29, 2022.]
2. **Wang, C.*** (2020). Landscape phenology and soil moisture dynamics influenced by irrigation in a desert urban environment. In Ghaffarianhoseini, A., Ghaffarianhoseini A., and Nasmith N. (Eds.), *Imaginable Futures: Design Thinking, and the Scientific Method*, pp. 670–679. [ResearchGate Link](#) and [ANZAScA Link](#). [Conference: 54th International Conference of the Architectural Science Association (ANZAScA) 2020. Auckland, New Zealand, November 26–27, 2020.]
3. **Wang, C.*** (2014). Research of sustainable development on waterway transportation in China. In Singh, D., Walubita, L. F., Oh, J., and Li, K. (Eds.), *Chapter: Transportation Issues in Developing Countries, American Society of Civil Engineers (ASCE) Geotechnical Special Publications (GSP)*, No. 244, pp. 32–39. <https://doi.org/10.1061/9780784478448.005>. [Conference: Geo-Hubei 2014 International Conference on Sustainable Civil Infrastructure (Geo-Hubei 2014). Yichang, Hubei Province, China, July 20–22, 2014.]
4. Li, X., Chen, P., Ye, Y.*†, & **Wang, C.** (2014). Structure design and mechanics calculation of aqueduct model. In Liu, H. W. (Ed.), *Chapter 2: Architecture Science, Civil Engineering, Building and Construction Materials and Geoengineering, Applied Mechanics and Materials*, Vols. 488–489, pp. 381–384. <https://doi.org/10.4028/www.scientific.net/AMM.488-489.381>. [Conference: The 2014 International Conference on Advanced Engineering Materials and Architecture Science (ICAEMAS 2014). Xi'an, Shanxi Province, China, January 04–05, 2014.]
5. **Wang, C.**, Liu, J.*†, & Xuan, Y. (2013). Research on various operation modes of Geheyan hydropower station reservoir in the Qingjiang River. In Zhao, J., Iranpour, R., Li, X., and Jin, B. (Eds.), *Chapter 12: Hydrology and Water Resources Engineering, Advanced Materials Research*, Vols. 726–731, pp. 3486–3491. <https://doi.org/10.4028/www.scientific.net/AMR.726-731.3486>. [Conference: The

2013/2nd International Conference on Energy and Environmental Protection (ICEEP 2013), Guilin, Guizhou Province, China, April 19–21, 2013.]

TECHNICAL ARTICLES AND REPORTS

(‡: Authors Ordered Alphabetically)

1. The Stanford Center on Longevity (**Wang, C.** as one of the contributors). (2022). The New Map of Life. Report by the *New Map of Life Initiative* at *Stanford Center on Longevity*, 81 pages. Released in Apr 2022: <https://longevity.stanford.edu/the-new-map-of-life-full-report/>.
2. **Wang, C.**, & Jackson, R. B. (2021). Supporting Century-Long Lives Through Efficient Energy Use and Livable Urban Environments. Report prepared for the *New Map of Life Initiative* at *Stanford Center on Longevity*, 63 pages. Released in Nov 2021: <https://longevity.stanford.edu/the-new-map-of-life-report/> or <http://dx.doi.org/10.13140/RG.2.2.32873.98402>.
3. The Stanford Center on Longevity (**Wang, C.** as one of the contributors). (2021). The New Map of Life: 100 Years to Thrive. Report by the *New Map of Life Initiative* at *Stanford Center on Longevity*, 24 pages. Released in Nov 2021: <https://longevity.stanford.edu/the-new-map-of-life-report/>. [[See Media Coverage](#)]
4. Miller, J., Horwitz, I.‡, Johfre, S.‡, Jonas, A.‡, Roche, M.‡, Sierra Huertas, D.‡, Streeter, J.‡, **Wang, C.**‡, Deevy, M., & Carstensen L. L. (2021). Effectively Reducing Race Differences in Old Age Demands a Life Course Approach. Article prepared for *AARP International* in *Building Equity in Longevity*, Washington, DC: AARP Thought Leadership, 4 pages. Released in May 2021: <https://www.aarpinternational.org/resources/build-equity/building-equity-in-longevity-collection> (AARP International) or <https://doi.org/10.26419/int.00048.001>.
5. **Wang, C.**, Wang, Z.-H., & Kaloush, K. E. (2020). Critical Review and Gap Analysis of Impacts from Pavements on Urban Heat Island. Report prepared for *National Asphalt Pavement Association (NAPA)* by *National Center of Excellence (NCE) on SMART Innovations*, 55 pages. Released in Dec 2020: <https://ncesmart.asu.edu/gap-analysis-of-impacts-from-pavements-on-uhi/> (NCE on SMART Innovations) or <http://dx.doi.org/10.13140/RG.2.2.16670.00321>. [[See Media Coverage](#)]
6. **Wang, C.** (2020). A New Map of Life Brief – Climate. Mid-fellowship brief prepared for the *New Map of Life Initiative* at *Stanford Center on Longevity*, 3 pages. Released in Nov 2020: <https://longevity.stanford.edu/new-map-of-life-fellows-briefs/> (Stanford Center on Longevity).
7. Wang, Z.-H., Kaloush, K. E., & **Wang, C.** (2017). Sustainability and Scaling of Urban Transportation Networks. Report No. NTC2016-SU-R-04. Report prepared for *National Transportation Center at Maryland (NTC)*, 33 pages. Released in Nov 2017: <https://mti.umd.edu/project/ntc2016-su-r-04-sustainability-and-scaling-urban-transportation-networks> (NTC) or <https://trid.trb.org/view/1505092> (Transportation Research Board, National Academies of Sciences, Engineering, and Medicine).

INVITED TALKS

1. “Sustainable Urban Environments in a Changing Climate”. College of Hydraulic & Environmental Engineering, China Three Gorges University, Yichang, China, Apr 19, 2022.
2. “Urban Environments in a Changing Climate: Numerical Modeling, Data Analytics, and Complex Systems”. The Earth Commons & Graduate School of Arts and Sciences, Georgetown University, Washington, DC, Mar 02, 2022.
3. “Urban Environments in a Changing Climate: Numerical Modeling, Data Analytics, and Complex Systems”. Department of Civil and Environmental Engineering, Princeton University, Princeton, NJ, Feb 16, 2022.

4. “Urban Environments in a Changing Climate: Numerical Modeling, Data Analytics, and Complex Systems”. Department of Geography and Environmental Sustainability & School of Meteorology, University of Oklahoma, Norman, OK, Feb 11, 2022.
5. “Urban Environments in a Changing Climate: Numerical Modeling, Data Analytics, and Complex Systems”. School of Civil and Environmental Engineering, Cornell University, Ithaca, NY, Feb 02, 2022.
6. “Rethinking the Urban Physical Environment for Century-Long Lives”. New Map of Life Fellow Spotlight, SCL Advisory Council Quarterly Meeting, Stanford Center on Longevity (SCL), Stanford, CA, Jan 21, 2021.
7. “Impact of Pavements on Urban Heat Island: A Critical Review and Gap Analysis”. National Asphalt Pavement Association (NAPA) panelist webinar, with Kaloush, K. E. and Wang, Z.-H. (Arizona State University), Oct 15, 2020.
8. “Building Sustainable Cities with Trees: How Trees Regulate Urban Thermal Condition and Pollutant Dispersion”. Hydrosystems Engineering Seminar Series, School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, AZ, Sep 11, 2019.
9. “Urban Remote Sensing Applications and Implications for Numerical Simulations”. College of Hydraulic & Environmental Engineering, China Three Gorges University, Yichang, China, May 23, 2018.
10. “Urban Adaptation Strategies toward a Sustainable Built Environment”. College of Hydraulic & Environmental Engineering, China Three Gorges University, Yichang, China, May 22, 2018.
11. “Participatory Roles of Trees in Influencing Urban Environment Quality”. Hydrosystems Engineering Seminar Series, School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, AZ, Mar 28, 2018.

CONFERENCE PRESENTATIONS

(*: Presenter; *Italic*: Competition Award)

1. Li, P.*, **Wang, C.**, & Wang, Z.-H. Co-benefit of carbon-heat mitigation by irrigating urban greenery in the United States. Oral: Session–Urban environment and Health Impacts I, Special Symposium on Urban Environment, American Meteorological Society 103rd Annual Meeting. Denver, CO, Jan 8–12, 2023. Abstract: <https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Paper/415744>. (upcoming)
2. Yang, X.*, Wang, Z.-H., & **Wang, C.** Causal propagation of extreme heatwaves in the urban USA. Oral: Session–Urban Climate Modeling: Approaches and Tools for Pathways to Societal Resilience and Adaptation, 18th Symposium on Societal Applications: Policy, Research and Practice, American Meteorological Society 103rd Annual Meeting. Denver, CO, Jan 8–12, 2023. Abstract: <https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Paper/413359>. (upcoming)
3. **Wang, C.***, Wang, Z.-H., & Ryu, Y.-H. A single-layer urban canopy model with transmissive radiation exchange between trees and street canyons. Oral: Session–Urban Areas and Global Change, American Geophysical Union 2022 Fall Meeting. Chicago, IL, Dec 12–16, 2022. Abstract: <https://agu.confex.com/agu/fm22/meetingapp.cgi/Paper/1084322>.
4. **Wang, C.***, Song, J., Shi, D., Reyna, J., Horsey, H., Feron, S. C., Zhou, Y., Ouyang, Z., Li, Y., & Jackson, R. B. Heterogeneous response of city-level building energy use to future climate change, socioeconomic development, and power sector decarbonization. Oral: Session–MultiSector Dynamics: Environmental Change, Resilience, and Society in Urban Areas Under a Changing Climate, American Geophysical Union 2022 Fall Meeting. Chicago, IL, Dec 12–16, 2022. Abstract: <https://agu.confex.com/agu/fm22/meetingapp.cgi/Paper/1083474>.

5. Yang, X.* , Wang, Z.-H., & **Wang, C.** Finding causal gateways of heatwave propagation among U.S. cities. Poster: Session–Extreme Variability and Complexity: from Theory to Modeling and Big Data, from Urban Systems to Climate and Pandemics, American Geophysical Union 2022 Fall Meeting. Chicago, IL, Dec 12–16, 2022. Abstract: <https://agu.confex.com/agu/fm22/meetingapp.cgi/Paper/1060203>.
6. Yang, X.* , Wang, Z.-H., & **Wang, C.** Causal analysis of spatial patterns of heatwaves among U.S. cities. Poster: 2022 International Association for Urban Climate (IAUC) Virtual Poster Conference. Virtual, Aug 30–Sep 1, 2022. Abstract: https://iaucposter2022.com/wp-content/uploads/2022/08/AbstractBook_2022IAUCposter.pdf.
7. Zhu, B.* , Lui, N., Irvin, J., Le, J., Tadwalkar, S., **Wang, C.**, Ouyang, Z., Liu, F. Y., Ng., A. Y., & Jackson, R. B. METER-ML: A multi-sensor Earth observation benchmark for automated methane source mapping. Oral: 2nd workshop on Complex Data Challenges in Earth Observation (CDCEO) 2022, the 31st International Joint Conference on Artificial Intelligence and the 25th European Conference on Artificial Intelligence (IJCAI-ECAI 2022). Vienna, Austria, Jul 23–29, 2022. Presentation: https://www.youtube.com/watch?v=WGVy_vLhgU.
8. Yang, X.* , Wang, Z.-H., **Wang, C.**, & Lai, Y.-C. Finding regional atmospheric mediators in the U.S. using causal inference. Poster: 12th Annual SSEBE Graduate Research Symposium. Tempe, AZ, Feb 11, 2022.
9. Yang, X.* , Wang, Z.-H., & **Wang, C.** Detecting critical transitions in urban hydrological system in the Contiguous United States. Oral: Joint Session–Urban Hydrology: Modeling and Instrumentation, 36th Conference on Hydrology and 17th Symposium on Societal Applications: Policy, Research and Practice, American Meteorological Society 102nd Annual Meeting. Houston, TX, Jan 23–27, 2022. Abstract: <https://ams.confex.com/ams/102ANNUAL/meetingapp.cgi/Paper/388359>.
10. Li, P.* , Wang, Z.-H., & **Wang, C.** Estimating the impact of urban irrigation on CO₂ exchange using a coupled WRF-UCM and photosynthesis model. Oral: Session–Urban Areas and Global Change, American Geophysical Union 2021 Fall Meeting. New Orleans, LA, Dec 13–17, 2021. Abstract: <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/801887>.
11. Wang, Z.-H., **Wang, C.**, & Yang, X.* Simulating heat extremes using dynamic synchronization in complex climate networks. Poster: Session–Harnessing Earth System Data for Understanding and Predicting Climate Extremes in Agriculture and Urban Systems, American Geophysical Union 2021 Fall Meeting. New Orleans, LA, Dec 13–17, 2021. Abstract: <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/804272>.
12. Yang, X.* , Wang, Z.-H., & **Wang, C.** Data-driven prediction of urban hydrological transitions in the Contiguous United States. Poster: Session–Harnessing Earth System Data for Understanding and Predicting Climate Extremes in Agriculture and Urban Systems, American Geophysical Union 2021 Fall Meeting. New Orleans, LA, Dec 13–17, 2021. Abstract: <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/800017>.
13. **Wang, C.*** New map of life fellow lightning talk. Lightning: A New Map of Life: Engineering Change Conference. Stanford, CA, Nov 4–5, 2021.
14. Lipson, M.* , Grimmond, C. S. B., Best, M., Martilli, A., Simon, A., Coutts, A., Pitman, A. , Tsiringakis, A., Lemonsu, A., Han, B.-S., **Wang, C.**, De Munck, C., Meyer, D., Lee, D.-I., Abramowitz, G., Manoli, G., Steeneveld, G.-J., Kondo, H., McNorton, J., Baik, J.-J., Oleson, K., Nice, K., Fortuniak, K., Hendry, M., Thatcher, M., De Kauwe, M., Demuzere, M., Beyers, M., Roth, M., Meili, N., Tapper, N., Schoetter, R., Lee, S.-H., Park, S.-B., Fatichi, S., Boussetta, S., Machado, T., Sun, T., Masson, V., Kikegawa, Y., Takane, Y., & Wang, Z.-H. (2021). Urban-PLUMBER model evaluation project: initial results. Oral: Session–Urban Climate, Urban Biometeorology, and Science

Tools for Cities, European Geosciences Union General Assembly 2021. Virtual due to COVID, Apr 19–30, 2021. <https://doi.org/10.5194/egusphere-egu21-15230>. Poster: https://presentations.copernicus.org/EGU21/EGU21-15230_presentation.pdf. (Authors ordered alphabetically)

15. Sun, L.*, **Wang, C.**, & Wang, Z.-H. Climatology of solar radiation in the Contiguous United States (1960–2019). Poster: Session–Applied Meteorology and Climatology, American Meteorological Society 20th Annual Student Conference at 101st Annual Meeting. New Orleans, LA. Virtual due to COVID, Jan 10–15, 2020. Abstract and Poster: <https://ams.confex.com/ams/101ANNUAL/meetingapp.cgi/Paper/385237>.
16. Sun, L.*, **Wang, C.**, & Wang, Z.-H. Long-term solar radiation patterns across the Contiguous United States. Poster: Session–Bright STaRS: Bright Students Training as Research Scientists, American Geophysical Union 2020 Fall Meeting. San Francisco, CA. Virtual due to COVID, Dec 1–17, 2020.
17. **Wang, C.*** Landscape phenology and soil moisture dynamics influenced by irrigation in a desert urban environment. Oral: Session–Simulation, Prediction & Evaluation, 54th International Conference of the Architectural Science Association (ASA). Auckland University of Technology, Auckland, New Zealand. Virtual due to COVID, Nov 26–27, 2020. Presentation: <https://www.youtube.com/watch?v=-EXYrdunyMg>.
18. **Wang, C.***, Li, Q., & Wang, Z.-H. The residence time of pollutants emitted within the urban canopy influenced by street canyon geometry and emission conditions. Oral: Session–Modeling and Monitoring of Air Pollution in the Urban Environment, 21st Joint Conference on the Applications of Air Pollution Meteorology with the Air & Waste Management Association (A&WMA), American Meteorological Society 100th Annual Meeting. Boston, MA, Jan 12–16, 2020. Abstract: <https://ams.confex.com/ams/2020Annual/webprogram/Paper364856.html>.
19. **Wang, C.***, Wang, Z.-H., & Yang, J. Evaluating the potential of irrigation for mitigating urban heat: trade-off between water use and heat mitigation capacity. Poster: Session–Interdisciplinary Sustainable Solutions for Urban Areas, American Geophysical Union 2019 Fall Meeting. San Francisco, CA, Dec 09–13, 2019. <https://doi.org/10.1002/essoar.10501419.1>. Abstract and Poster: <https://agu.confex.com/agu/fm19/meetingapp.cgi/Paper/508535>.
20. **Wang, C.***, Wang, Z.-H., Wang, C. Y., & Myint, S. W. The cooling capacity of urban trees in response to thermal extremes in U.S. cities. Poster: Urban Climate Research Center 2nd Annual Student Poster Competition. Tempe, AZ, Mar 27, 2019.
21. **Wang, C.***, Wang, Z.-H., & Li, Q. Structure of similarity-driven clustering among U.S. cities in response to environmental stressors. Poster: 9th Annual SSEBE Graduate Research Symposium. Tempe, AZ, Feb 22, 2019.
22. **Wang, C.***, & Wang, Z.-H. A statistical view of the Phoenix urban heat island during the past 86 years (1933–2018). Poster: Central Arizona–Phoenix Long-Term Ecological Research (CAP LTER) 21st Annual All Scientists Meeting and Poster Symposium. Scottsdale, AZ, Jan 11, 2019. Poster: <https://d3dqsm2futmewz.cloudfront.net/docs/symposia/symp2019/Wang-Wang.pdf>.
23. **Wang, C.***, & Wang, Z.-H. Temperature regulation of the surface cooling rate of urban trees under climatic extremes. Oral: 32nd Conference on Climate Variability and Change, American Meteorological Society 99th Annual Meeting. Phoenix, Arizona, Jan 06–10, 2019. Abstract and Presentation: <https://ams.confex.com/ams/2019Annual/webprogram/Paper350075.html>.
24. **Wang, C.***, Li, Q., & Wang, Z.-H. Quantifying the impact of urban trees on pollutant dispersion using a coupled LES–Lagrangian stochastic model. Oral: Session–Numerical Studies of Urban Environments, 10th International Conference on Urban Climate/14th Symposium on the Urban Environment (ICUC10).

City University of New York, New York City, NY, Aug 06–09, 2018. Abstract and Presentation: <https://ams.confex.com/ams/ICUC10/meetingapp.cgi/Paper/341784>.

25. **Wang, C.***, Wang, Z.-H., Li, Q., & Yang, J. A coupled large-eddy simulation–Lagrangian stochastic modeling framework with applications to urban areas. Oral: Session–Modeling and Observations in Heterogeneous, Complex, and Urban Terrain, including Vegetated Surfaces and Canopies, 23rd Symposium on Boundary Layers and Turbulence/21st Conference on Air-Sea Interaction (23BLT/21ASI). Oklahoma City, OK, Jun 11–15, 2018. Abstract and Presentation: <https://ams.confex.com/ams/23BLT21ASI/webprogram/Paper344260.html>.
26. **Wang, C.**, Li, Q., & Wang, Z.-H.* Impacts of urban trees on particle dispersion in street canyons: Modeling and applications. Oral: Session–Urban Fluid Mechanics, 8th International Symposium on Environmental Hydraulics (ISEH). University of Notre Dame, Notre Dame, IN, Jun 04–07, 2018.
27. **Wang, C.***, & Wang, Z.-H. Solution or problem? Effects of urban trees on the turbulent transport of airborne pollutant from traffic emission. Poster: Urban Climate Research Center 1st Annual Student Poster Competition. Tempe, AZ, Apr 03, 2018. [*1st Place in the Competition*]
28. **Wang, C.***, & Wang, Z.-H. Numerical simulations of street trees in influencing the urban air quality. Poster: 8th Annual SSEBE Graduate Research Symposium. Tempe, AZ, Feb 16, 2018. [*3rd Place in the Competition*]
29. **Wang, C.***, Wang, Z.-H., Yang, J., & Li, Q. A Lagrangian stochastic urban footprint model: Model development and evaluation. Oral: 20th Joint Conference on the Applications of Air Pollution Meteorology with the Air & Waste Management Association (A&WMA), American Meteorological Society 98th Annual Meeting. Austin, TX, Jan 07–11, 2018. Abstract: <https://ams.confex.com/ams/98Annual/webprogram/Paper322222.html>.
30. **Wang, C.***, Wang, C. Y., Myint, S. W., & Wang, Z.-H. Spatial and temporal variability of satellite-based aerosol optical depth in the dynamic urban environment. Poster: CAP LTER 20th Annual All Scientists Meeting and Poster Symposium. Scottsdale, AZ, Jan 05, 2018. Poster: <https://d3dqsm2futmewz.cloudfront.net/docs/symposia/symp2018/Wang-etal.pdf>.
31. **Wang, C.***, Upreti, R., Wang, Z.-H., & Yang, J. Impacts of trees on urban environment in the contiguous United States. Poster: Session–Advances in Understanding Land–Atmosphere Interactions in a Changing Environment, American Geophysical Union 2017 Fall Meeting. New Orleans, LA, Dec 11–15, 2017. Abstract & Poster: <https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/205916>.
32. **Wang, C.*** Evaluating the effects of urban trees on land surface temperature during cold spells. Lightning: Session–Applications of GIS in Sustainable Engineering and the Built Environment, GIS Day 2017, ASU Library Map and Geospatial Hub. Tempe, AZ, Nov 17, 2017.
33. **Wang, C.***, Wang, Z.-H., Yang, J., & Krayenhoff, E. S. Radiative shading effects of trees on the built environment in the contiguous United States. Poster: 3rd Urban Water Innovation Network (U-WIN) Research Team Annual Meeting. Fort Collins, CO, Jul 31–Aug 02, 2017. [*2nd Place in the Competition*] Poster: https://erams.com/UWIN/wp-content/uploads/2017/08/Wang-Radiative-Effects-of-Tress_compressed.pdf.
34. **Wang, C.***, Upreti, R., Wang, Z.-H., & Yang, J. Impact of shade trees on urban hydroclimate for Phoenix and the continental United States. Poster: CAP LTER 19th Annual All Scientists Meeting and Poster Symposium. Scottsdale, AZ, Jan 13, 2017. Poster: <https://d3dqsm2futmewz.cloudfront.net/docs/symposia/symp2017/Wang-etal.pdf>.
35. **Wang, C.***, She, Y., Liu, J., Li, X., Li, Y., & Li, X. Emission of greenhouse gases from the Meiziya Reservoir. Oral: 2013–2014 College Students Science and Technology Projects Symposium, China Three Gorges University. Yichang, China, Nov 2014. [*First Prize in the Competition*]

36. Luo Z.*, **Wang, C.**, Peng, Y., & Liu, W. Optimal reservoir operation for flood control with rainfall forecasting. Oral: 2012–2013 College Students Science and Technology Projects Symposium, China Three Gorges University. Yichang, China, Oct 2013. [*Second Prize in the Competition*]
37. **Wang, C.***, Li, X., Zhong, H., Ling, W., Zhao, P., & Li, X. Simulating the methane emission from reservoir sediments. Oral: 2012–2013 College Students Science and Technology Projects Symposium, China Three Gorges University. Yichang, China, Oct 2013. [*First Prize in the Competition*]
38. **Wang, C.***, Luo, Z., Lei, Y., Wang M., & Liu, Y. The development of a hydropower station with flood discharge, power generation, and energy dissipation. Oral: 3rd China National Undergraduate Hydraulic Innovational Design Competition. North China University of Water Resources and Electric Power, Zhengzhou, China, Jul 29–31, 2013. [*Second Prize in the Competition*]
39. **Wang, C.***, Luo, Z., & Xuan, Y. Evaluation of optimal operation models for Geheyan Reservoir. Oral: 2011–2012 College Students Science and Technology Projects Symposium, China Three Gorges University. Yichang, China, Oct 2012. [*First Prize in the Competition*]

PATENTS

1. **Wang, C.**, Zhao, P., Li, X., Liu, J., She, Y., & Zhong, H. An air sample and inhalable particle sampler. Chinese Utility Model Patent, Ref. No: CN201420174368.5, Filed: Apr 11, 2014, Patented: Aug 06, 2014. <https://doi.org/10.13140/RG.2.1.3507.6961>.
2. **Wang, C.**, Luo, Z., & Peng, L. An automatic flood diversion and aerating system for urban landscape river channels. Chinese Utility Model Patent, Ref. No: CN201420121440.8, Filed: Mar 18, 2014, Patented: Aug 06, 2014. <https://doi.org/10.13140/RG.2.1.1410.5448>.
3. **Wang, C.** A solar screened water bloom eliminating boat. Chinese Utility Model Patent, Ref. No: CN201320536201.4, Filed: Aug 30, 2013, Patented: Jun 04, 2014. <https://doi.org/10.13140/RG.2.1.2459.1204>.
4. **Wang, C.**, Luo, Z., Lei, Y., Wang, M., Liu, Y., & Peng, H. A flood discharge, power generation, and energy dissipation hydropower station. Chinese Utility Model Patent, Ref. No: CN201320661937.4, Filed: Oct 25, 2013, Patented: Apr 02, 2014. <https://doi.org/10.13140/RG.2.1.4556.2726>.
5. **Wang, C.** Spillway impulse water turbine. Chinese Utility Model Patent, Ref. No: CN201320578623.8, Filed: Sep 18, 2013, Patented: Mar 26, 2014. <https://doi.org/10.13140/RG.2.1.4031.9848>.
6. **Wang, C.** An anti-blocking catch basin lid. Chinese Utility Model Patent, Ref. No: CN201320535504.4, Filed: Aug 30, 2013, Patented: Feb 12, 2014. <https://doi.org/10.13140/RG.2.1.5080.5603>.
7. **Wang, C.** The water stopper for gas inlet system of gas analyzer. Chinese Utility Model Patent, Ref. No: CN201320561220.2, Filed: Sep 11, 2013, Patented: Jan 29, 2014. <https://doi.org/10.13140/RG.2.1.2983.4083>.
8. **Wang, C.**, Luo, Z., Lei, Y., Wang, M., Liu, Y., & Peng, H. A flood discharge, power generation, and energy dissipation hydropower station. Chinese Invention Patent, Ref. No: CN201310508610.8, Filed: Oct 25, 2013, Patented (Public): Jan 22, 2014. <https://doi.org/10.13140/RG.2.1.1082.8648>.
9. **Wang, C.** A multifunctional field environment factor collection work box. Chinese Utility Model Patent, Ref. No: CN201320535849.X, Filed: Aug 30, 2013, Patented: Jan 01, 2014. <https://doi.org/10.13140/RG.2.1.3180.0168>.

RESEARCH GRANTS

Research Grants at the University of Oklahoma (2022–present)

Integrating multiple datasets to develop a historical Comprehensive Hourly Urban Weather Database (CHUWD) for energy system modeling 2022.12–2023.12
Data Institute for Societal Challenges (DISC); PI: **Wang, C.**; Award Amount: \$10,000.

Research Grants at Stanford University (2020–2022) (Postdoctoral Researcher)

METER: Methane Tracking Emissions Reference 2021.10–2022.08
High Tide Foundation; Role: Postdoctoral Researcher; PI: Jackson, R. B.; Award Budget: \$1,000,000.

Research Grants at Arizona State University (2015–2019) (Graduate Research Associate)

Critical review and gap analysis of impacts from pavements on urban heat island 2018.07–2019.12
National Asphalt Pavement Association, co-sponsored by Urban Climate Research Center and Arizona Pavements/Materials Conference Committee; Role: Graduate Research Associate; PIs: Wang, Z., & Kaloush, K.; Award Budget: \$63,326.

Rapid modifications of land surface temperature during rainfall: basics and implications 2017.11–2018.01
U.S. Army Research Laboratory, U.S. Department of Defense (No. W911NF-15-1-0003); Role: Graduate Research Associate; PIs: Bou-Zeid, E., Hultmark, M., Wang, Z., & Kaloush, K.; Award Budget: \$360,262.

Sustainable urban development in the sun corridor: finding engineering alternatives through coupled WRF-urban land surface modeling 2016.08–2019.02
National Science Foundation (No. CBET-1435881); Role: Graduate Research Associate; PI: Wang, Z.; Award Budget: \$299,838.

Sustainability and scaling of urban transportation networks 2016.05–2016.12
National Transportation Center (NTC) @ Maryland (No. DTRT13-G-UTC30); Role: Graduate Research Associate; PIs: Wang, Z., & Kaloush, K.; Award Budget: \$30,062.

SRN: Urban Water Innovation Network (U-WIN): transitioning toward sustainable urban water systems 2015.08–2017.11
National Science Foundation (No. CBET-1444758); Role: Graduate Research Associate; PIs: Arabi, M., Pivo, G., Welty, C., Bou-Zeid, E., & Haggerty, R.; Award Budget: \$12,741,385.

Research Grants at China Three Gorges University (2011–2015) (Student PI/Research Assistant)

Quantifying the emissions of greenhouse gases from the Meiziya Reservoir 2013.09–2015.06
China Three Gorges University and Collaborative Innovation Center for Geo-Hazards and Eco-Environment in Three Gorges Area, Hubei Province (CICGE) (No. SH2013-2014 025 and No. CTGU2013-2014 A04); Role: Student PI; Advisor: Xiao, S.

Major components of photochemical pollution episodes in Yichang, China 2013.09–2014.09
China Three Gorges University (No. SH2013-2014 026); Role: Research Assistant; Student PI: Yang, C.; Advisor: Xiao, S.

Carbon emissions from the Three Gorges Reservoir 2013.06–2015.05
National Natural Science Foundation of China (No. 41101511); Role: Research Assistant; PI: Xiao, S.

<i>A hydropower station with flood discharge, power generation, and energy dissipation</i> China Three Gorges University; Role: <u>Student PI</u> ; Advisor: Liu, Y., & Peng, H.	2013.02–2013.08
<i>Flood risk management with ensemble precipitation predictions</i> National Natural Science Foundation of China (No. 41273110); Role: <u>Research Assistant</u> ; PI: Liu, J.	2012.10–2013.09
<i>Simulation of methane emission from reservoir sediments</i> China Three Gorges University (No. SH2012-2013 003); Role: <u>Student PI</u> ; Advisor: Xiao, S.	2012.10–2013.06
<i>Optimal reservoir operation for flood control with rainfall forecasting</i> China Three Gorges University (No. SH2012-2013 006); Role: <u>Research Assistant</u> ; Student PI: Luo, Z.; Advisor: Liu, J.	2012.10–2013.05
<i>Evaluation of optimal operation models for Geheyan Reservoir</i> China Three Gorges University (No. SH2011-2012 052); Role: <u>Student PI</u> ; Advisor: Xuan, Y.	2011.10–2012.10

SELECTED HONORS AND AWARDS

2019 Chinese Government Award for Outstanding Self-financed Students Abroad, China Scholarship Council, Ministry of Education, China (500 recipients each year worldwide)	2020
Graduate College Completion Fellowship (twice), Arizona State University	2019
Outstanding Research Award, Graduate and Professional Student Association	2019
1st Place in the Urban Climate Research Center 1st Annual Poster Competition, Global Institute of Sustainability	2018
Teaching Excellence Award, Graduate and Professional Student Association	2018
3rd Place in the Student Poster Competition, 8th Annual SSEBE Graduate Research Symposium	2018
2nd Place (for Runner-up) in the Student Poster Competition, 3rd Urban Water Innovation Network – Annual Meeting	2017
Graduation with Honor (undergraduate student), China Three Gorges University	2015
Best Bachelor's Degree Thesis Award of Hubei Province, Ministry of Education of Hubei Province, China	2015
7th China National Excellent Graduate in Hydraulic Engineering, China Association of Hydraulic Engineering Education and Ministry of Education	2015
Outstanding Undergraduate Student in Scientific Research, Engineering Research Center of Eco-environment in Three Gorges Reservoir Region, Ministry of Education	2015
2nd Yangtze River Student - Hubei Province Outstanding Graduate, Ministry of Education of Hubei Province, China	2015
Outstanding Thesis Award of China Three Gorges University (2.23%)	2015
Second Prize, College Students Outstanding Scientific Achievement Award in Hubei Province, China (No. 2014052)	2015
The Qiu Suo Prize Scholarship, China Three Gorges University (5 out of ~23,000 students)	2015
First Prize Scholarship, Student Merit Award for Outstanding Achievement, China Three Gorges University	2015
China Yangtze Power Co., Ltd. Scholarship	2014
Honorable Mention Award, 4th China National Top 10 Future Hydraulic Stars	2014
Top 10 Outstanding Youths of China Three Gorges University (10 out of ~23,000 students)	2014
Outstanding Exchange Student of China Three Gorges University	2014

Top Grade Scholarship, Student Merit Award for Outstanding Achievement, China Three Gorges University (13 out of ~23,000 students)	2014
Top Grade Scholarship, Student Merit Award for Outstanding Achievement, China Three Gorges University (6 out of ~23,000 students)	2013
Second Prize, 3rd China National Undergraduate Hydraulic Innovational Design Competition	2013
Second Prize, SPRING into Wiley Online Library (China Region), John Wiley & Sons, USA	2013
National Scholarship of China (No. 2012 38592), Ministry of Education, China	2012
First Prize Scholarship, Student Merit Award for Outstanding Achievement, China Three Gorges University	2012
First Prize, Structure Model Design Competition, China Three Gorges University	2012

TRAVEL AWARDS AND GRANTS

International Journal of Environmental Research and Public Health Travel Award (CHF 800)	2020
Individual Travel Grant for American Geophysical Union 2019 Fall Meeting, Graduate and Professional Student Association (\$950)	2019
Graduate College Travel Award, Arizona State University (\$500)	2019
Individual Travel Grant for 10th International Conference on Urban Climate, Graduate and Professional Student Association (\$950)	2018
Graduate College Travel Award, Arizona State University (\$500)	2018
23rd Symposium on Boundary Layers and Turbulence Travel Award, American Meteorological Society Committee on Boundary Layers and Turbulence (\$300)	2018
Individual Travel Grant for American Meteorological Society 98th Annual Meeting, Graduate and Professional Student Association (\$300)	2018
Individual Travel Grant for American Geophysical Union 2017 Fall Meeting, Graduate and Professional Student Association (\$648)	2017

REVIEWER AWARDS

Global Peer Review Award (2018–2019) – Top 1% Reviewers in Cross-Field, Publons, Web of Science	2019
Global Peer Review Award (2018–2019) – Top 1% Reviewers in Environment and Ecology, Publons, Web of Science	2019
Outstanding Journal Reviewer for <i>Journal of Hydrology</i> , Elsevier	2018
Reviewer Excellence Award, Graduate and Professional Student Association	2018
Global Peer Review Award (2017–2018) – Top 1% Reviewers in Environment and Ecology (Position: #36), Publons, Web of Science	2018
Outstanding Journal Reviewer for <i>Science of the Total Environment</i> , Elsevier	2017

TEACHING EXPERIENCE

Urban Climatology	2023.01–2023.5
Course GEOG/METR 4970/5970-004: combined undergraduate- and graduate level course	
Department of Geography and Environmental Sustainability & School of Meteorology, University of Oklahoma, Norman, OK	
Environmental Justice	2022.02
Course GEOG 3890: undergraduate-level course, 10 students	

Invited Lecture: “Urban Heat Island Effect: Causes, Impacts, and Mitigation”
Department of Geography and Environmental Sustainability, University of
Oklahoma, Norman, OK

- Urban Water System Design 2018.10
Course CEE 466/598: combined undergraduate- and graduate level course
Invited Lecture: “Designing Urban Water System with EPANET”
Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZ
- Fluid Mechanics for Civil Engineers 2018.01–2018.05
Course CEE 341: undergraduate-level core course, 91 students
Graduate Teaching Associate (lab) (received *Teaching Excellence Award*)
Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZ
- Fluid Mechanics for Civil Engineers 2016.12–2017.05
Course CEE 341: undergraduate-level core course, 87 students
Graduate Teaching Associate (lab and lecture)
Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZ

MENTORING

High School Students (Research)

- Linda Sun, high school student at Horace Greeley High School, 2019.07–2021.12; Now undergraduate student at Cornell University

PROFESSIONAL SERVICE

National or International Committees

- Chair, Bibliography Committee, International Association for Urban Climate (Dec 2020–present)
- Member, Bibliography Committee, International Association for Urban Climate (Mar 2019–Nov 2020)
- Student member, Committee on Meteorological Aspects of Air Pollution, American Meteorological Society (Jan 2018–Jan 2020)

University Committees

- Faculty Search Committee, Department of Geography and Environmental Sustainability, University of Oklahoma (Aug 2022–present)
- Assessment Committee, Department of Geography and Environmental Sustainability, University of Oklahoma (Aug 2022–present)
- Co-chair (with Audrey M. Yau, Avni Malhotra, David Z. Yin, and Meredith Goebel), Postdoctoral Advisory Council (PDAC) Committee, School of Earth, Energy & Environmental Sciences, Stanford University (Sep 2020–Aug 2022)
- Committee member (co-chairs: Sue Crutcher and Robyn Dunbar), Respectful Community Committee, School of Earth, Energy & Environmental Sciences, Stanford University (Sep 2020–Aug 2021)

Academic Journal Editorial Boards

- Editorial Board Member, Journal *Data in Brief*, published by Elsevier (Nov 2020–present)

- Guest Editor, “Using Remote Sensing and GIS Technique/Methods to Address Current Urbanization Issues” (https://www.mdpi.com/journal/remotesensing/special_issues/Y602B3CNT6), Journal *Remote Sensing*, published by MDPI (Aug 2022–present)
- Guest Editor, “Weather and Climate Extremes in the Urban Environment: Modeling and Observations” (<https://www.frontiersin.org/research-topics/24936/weather-and-climate-extremes-in-the-urban-environment-modeling-and-observations>), Journals *Frontiers in Environmental Science*, *Frontiers in Earth Science*, *Frontiers in Ecology and Evolution*, *Frontiers in Built Environment*, and *Frontiers in Sustainable Cities*, published by Frontiers (Jul 2021–May 2022)
- Topic Editor, Journal *Sustainability*, published by MDPI (Oct 2020–present)
- Topic Editor, Journal *Atmosphere*, published by MDPI (Feb 2021–present)
- Review Editor, Editorial Board of Atmospheric and Climate, Journal *Frontiers in Environmental Science*, published by Frontiers (Dec 2020–present)
- Reviewer Board Member, Journal *Land*, published by MDPI (May 2020–present)
- Reviewer Board Member, Journal *Atmosphere*, published by MDPI (Feb 2020–present)
- Reviewer Board Member, Journal *Remote Sensing*, published by MDPI (Oct 2019–present)

Chair/Co-chair of Conferences

- Session co-chair with Jeffrey C. Weil (NCAR), Modeling and Monitoring of Air Pollution in the Urban Environment, 21st Joint Conference on the Applications of Air Pollution Meteorology with the Air & Waste Management Association (A&WMA), American Meteorological Society 100th Annual Meeting. Boston, MA, Jan 12–16, 2020.

Peer Review

Academic Journals (In total: 76 journals; 71 indexed in Web of Science)

Journals in Meteorology and Atmospheric Sciences (9 journals): *Advances in Meteorology*, *Agricultural and Forest Meteorology*, *Air Quality*, *Atmosphere & Health*, *Atmosphere*, *Atmospheric Pollution Research*, *Journal of Applied Meteorology and Climatology*, *Journal of Geophysical Research: Atmospheres*, *Meteorological Applications*, *Quarterly Journal of the Royal Meteorological Society*

Journals in Earth and Planetary Sciences (14 journals): *Climate*, *Earth Systems and Environment*, *Forests*, *Frontiers of Earth Science*, *Geophysical Research Letters*, *Geosciences*, *Geoscientific Model Development*, *Hydrological Processes*, *Hydrology*, *Journal of Hydrology*, *Journal of Marine Science and Engineering*, *PLOS Climate*, *SDRP Journal of Earth Sciences & Environmental Studies*, *Water*

Journals in Energy (3 journals): *Energies*, *Energy for Sustainable Development*, *International Journal of Sustainable Energy*

Journals in Environmental Science and Engineering (16 journals): *American Institute of Mathematical Sciences (AIMS) Environmental Science*, *Ecological Indicators*, *Ecological Modelling*, *Environmental Challenges*, *Environmental Pollution*, *Environmental Research Communications*, *Environmental Research Letters*, *Environmental Science and Pollution Research*, *Forest Ecology and Management*, *Frontiers in Environmental Science*, *Journal of Flood Risk Management*, *International Journal of Environmental Research and Public Health*, *Land*, *Land Degradation & Development*, *Science of the Total Environment*, *Sustainability*

Journals in Geography and Remote Sensing (8 journals): *Applied Geography*, *International Journal of Digital Earth*, *ISPRS International Journal of Geo-Information*, *Remote Sensing*, *Remote*

Sensing of Environment, Sensors, South African Geographical Journal, European Journal of Remote Sensing

Journals in Buildings, Urban Climate, and Urban Development (11 journals): *Building and Environment, Building Simulation, Buildings, Cities, City and Environment Interactions, Journal of Building Performance Simulation, Journal of Urban Design, Landscape and Urban Planning, Sustainable Cities and Society, Urban Climate, Urban Forestry & Urban Greening, Urban Science*

Journals in Interdisciplinary or Other Fields (14 journals): *Applied Medical Research, Cogent Social Sciences, Ecological Economics, Experimental Results, Heliyon, Journal of Cleaner Production, Nature Communications, Physica Scripta, PLoS One, Proceedings of the Institution of Civil Engineers, Resources, Results in Engineering, Scientific Reports, Simulation: Transactions of the Society of Modeling & Simulation International*

Book Chapters

- Kim, Albert S. (Ed.) (2019). *Advanced Computational Fluid Dynamics for Emerging Engineering Processes – Eulerian vs. Lagrangian*. IntechOpen. Invited chapter reviewer in Apr 2019.
- Li, P., & Marrongelle, K. (2012). *Having Success with NSF: A Practical Guide*. John Wiley & Sons. Invited public participation in book review (online) by John Wiley & Sons, Inc. in Oct–Nov 2013.

Book Proposals

- CRC Press, Taylor & Francis Group (2020–present)

Conferences and Competitions – Award Judge

- Poster Judge, GIS Day, University of Oklahoma, Norman, OK, Nov 2022.
- Award Judge, Stanford Center on Longevity 2021–2022 Design Challenge: “Longevity-Ready Environments: Rethinking Physical Spaces for Century-Long Lives”, Stanford Center on Longevity, Dec 2021–Jan 2022.
- Student Award Judge, Poster Sessions–Atmospheric Chemistry, Aerosols, and Air Quality; Boundary Layer Meteorology; Climate; and Tropical Meteorology, 19th Annual American Meteorological Society Student Conference. Boston, MA, Jan 12, 2020.
- Student Award Judge, 2019 Fall Earth and Space Science Virtual Poster Showcase, American Geophysical Union, Nov 2019.
- Student Award Judge, Session–Urban Design and Planning with Climate, 10th International Conference on Urban Climate/14th Symposium on the Urban Environment. City University of New York, New York City, NY, Aug 06–09, 2018.
- Student Award Judge, Poster Session–Atmospheric Chemistry, Aerosols, and Air Quality, 17th Annual American Meteorological Society Student Conference. Austin, TX, Jan 07, 2018.

Conferences – Reviewer

- Paper reviewer, 2020 International Symposium on Water, Ecology and Environment (ISWEE 2020). Beijing Jiaotong University, Beijing, China, Dec 06–08, 2020.
- Paper reviewer, the 6th International Conference on Water Resource and Environment (WRE 2020). Tokyo University of Agriculture & I-Shou University, Tokyo, Japan, Aug 23–26, 2020.
- Paper reviewer, the 2nd International Workshop on Environment and Geoscience (IWEG 2019). Hangzhou, China, Jul 17–19, 2019.

- Paper reviewer, Session–Environmental Management, Social Development and Economic Development, 7th World Sustainability Forum (WSF 2018). University of International Business and Economics & Tsinghua University, Beijing, China, Sep 19–21, 2018.

University Grants and Awards

(#: number of proposals or applications reviewed)

- Individual Travel Grant for Academic Conference, Graduate and Professional Student Association (GPSA) Travel Grant Program, Arizona State University (Aug 2017–Aug 2019, 60)
- Career Development Grant, GPSA Travel Grant Program (Jan 2018–Aug 2019, 7)
- Internship and Interview Travel Grant, GPSA Travel Grant Program (Aug 2017–Aug 2019, 3)
- Jumpstart Seed Research Grant, GPSA Jumpstart Program (Oct 2017, Feb 2018, Apr 2018, Apr 2019, 6)
- Independent and Terminal (Dissertation/Thesis) Research Grant, GPSA Graduate Research Support Program (Oct 2017, Feb 2018, Oct 2018, Jan 2019, Feb 2019, Aug 2019, 17)
- Teaching Excellence Awards (TEA), GPSA (Oct–Nov 2017, Sep–Oct 2018, 7)

MEDIA COVERAGE

- *Can we use less energy and still be happy?* By Haley Zaremba from OilPrice.com, Apr 27, 2022. ([Link](#))
- *The energy requirements of a good life are surprisingly low.* By Sarah DeWeerd from Anthropocene, Apr 19, 2022. ([Link](#))
- *How much energy do people need for health, happiness, and well-being?* By Lloyd Alter from Treehugger, Apr 19, 2022. ([Link](#))
- *Why using less energy actually increases your health and happiness.* By Tanner Garrity from InsideHook, Apr 14, 2022. ([Link](#))
- *Where the energy link to well-being starts fraying.* By Ben Geman from Axios, Apr 12, 2022. ([Link](#))
- *How much energy powers a good life? Less than you're using, says a new report.* By Laura Benshoff from npr, Apr 12, 2022. ([Link](#); 4-min All Things Considered: [Link](#))
- *World doesn't need more energy to end poverty, study says.* By David R. Baker from Bloomberg, Apr 12, 2022. ([Link](#))
- *Study finds high energy use provides little benefit for health and well-being in richer nations.* By Josie Garthwaite from Stanford University, in Stanford Earth Matters magazine, Apr 12, 2022. ([Link](#); also in Phys.org: [Link](#))
- *Health, happiness and prosperity – with fewer kilowatts.* By Josie Garthwaite from Stanford University, in Stanford News, Apr 12, 2022. ([Link](#))
- *How much snow does each visitor 'melt' in the Antarctic? The answer may surprise you.* By Matthew Harris from Keele University, in World Economic Forum, Mar 03, 2022. ([Link](#))
- *Sooty trail of tourism pollution may be melting Antarctica.* By Melissa Coade from The Mandarin, Feb 25, 2022. ([Link](#))
- *Is tourism melting Antarctica?* By Matilda Handsley-Davis from COSMOS, Feb 23, 2022. ([Link](#))
- *What is black carbon? The latest way humans are causing changes in Antarctica.* By Danya Gainor and Angela Fritz from CNN, Feb 22, 2022. ([Link](#))
- *Antarctica is melting faster thanks to pollution from tourism and research.* By Jackson Ryan from CNET, Feb 22, 2022. ([Link](#))

- *Black carbon pollution from tourism and research increasing Antarctic snowmelt, study says.* By Donna Lu from The Guardian, Feb 22, 2022. ([Link](#); also in Canada's National Observer: [Link](#))
- *Soot is accelerating snow melt in popular parts of Antarctica, a study finds.* By Rebecca Hersher from npr, Feb 22, 2022. ([Link](#))
- *Research stations and tourists are hastening snow melt in Antarctica.* By Chen Ly from New Scientist, Feb 22, 2022. ([Link](#))
- *Each Antarctic tourist effectively melts 83 tonnes of snow – new research.* By Matthew Harris from Keele University, in The Conversation, Feb 22, 2022. ([Link](#); also in Phys.org: [Link](#))
- *The 100-year life is here. How can we meet the challenges of longevity? An expert explains.* Work cited by Abhinav Chugh and Martha Deevy, in the World Economic Forum, Jan 19, 2022. ([Link](#))
- *Longevity-ready cities should aim to support health over the whole life-course.* By Dita Eckhardtová from Healthy Longevity Guide, Dec 15, 2021. ([Link](#))
- *Charting the new map of life.* By Laura Carstensen, in Next Avenue, Nov 17, 2021. ([Link](#))
- *How can we support 100-year lives?* By Steve Vernon from Forbes, Nov 17, 2021. ([Link](#))
- *New report on pavement and urban heat islands.* By David Sailor from Urban Climate Research Center, Dec 6, 2020. ([Link](#))
- *Climate change: Scientists look at 20th century data, heat extremes for early-warning signals.* By Down To Earth, Jul 16, 2020. ([Link](#))
- *Scientists identify early warning signals of heat waves.* By Chrissy Sexton from Earth.com, Jul 15, 2020. ([Link](#))
- *Data analytics can help predict global warming trends and heat waves.* By Sarah Jonas from sciencenewsnet.in, Jul 15, 2020. ([Link](#); also in Newswise: [Link](#))
- *Data analytics can predict global warming trends, heat waves.* Interview by Theresa Grant from Arizona State University, Jul 15, 2020. ([Link](#); also in Stanford Earth Matters magazine: [Link](#); Phys.org: [Link](#))
- *“Current improvements shouldn't be seen as a silver lining for climate change and air pollution.”* Interview by Laura Tejero from Stanford Center on Longevity, May 28, 2020. ([Link](#))
- *“Yes. Pollution is decreasing with the lockdowns. But will it last?”* Interview by Laura Tejero from Stanford Center on Longevity, May 28, 2020. ([Link](#))
- *Air pollutant emissions have decreased drastically across the world due to worldwide lockdowns.* Interview by Laura Tejero from Stanford Center on Longevity, May 28, 2020. ([Link](#))
- *Can trees pollute cities?* Papers cited by Zhihua Wang from Arizona State University in an opinion piece in *Atmósfera*, May 27, 2020. ([Link](#))
- *“Current improvements will certainly bounce back. We really need to change our lives in the future.”* Interview by Laura Tejero from Stanford Center on Longevity, May 13, 2020. ([Link](#))
- *Daily commutes might worsen exposure to heat waves.* Interview by Nicholas Gerbis from KJZZ 91.5 FM, Dec 23, 2019. ([Link](#))
- *Assessing heat wave risk in cities as global warming continues.* By Bob Yirka from Phys.org, Dec 19, 2019. ([Link](#))
- *How planning for extreme temperatures builds better, safer cities.* By Nina Pullano from Inverse, Dec 18, 2019. ([Link](#))
- *Heat waves expose city dwellers to higher temperatures than forecast.* By Donna Lu from New Scientist, Dec 18, 2019. ([Link](#))

- *Trees and the public good*. Work cited by Bill Schlesinger from Duke University & Cary Institute of Ecosystem Studies, May 28, 2019. ([Link](#); also in Clean Air Carolina: [Link](#))

MEDIA COVERAGE IN OTHER LANGUAGES

- *Why less energy consumption does not reduce prosperity* (Warum ein geringerer Energieverbrauch den Wohlstand nicht schmälert). By Peter Carstens from GEO, Apr 13, 2022. ([Link](#); in German)
- *How energy and well-being are related* (Wie Energie und Wohlergehen zusammenhängen). By Deutschlandfunk Nova, Apr 13, 2022. ([Link](#); in German)
- *The link between energy per capita and quality of life is not what we think* (Il legame tra energia pro capite e qualità della vita non è quello che pensiamo). By Rinnovabili.it, Apr 13, 2022. ([Link](#); in Italian)
- *The area between Portillo and Valle Nevado are the ones that suffer the greatest melting of snow in the mountain range due to pollution* (Zona entre Portillo y Valle Nevado son las que sufren el mayor derretimiento de nieve de la cordillera a causa de la contaminación). By Carlos Montes from La Tercera, Feb 22, 2022. ([Link](#); in Spanish)
- *Black carbon accelerates the melting of Antarctica* (El carbono negro acelera el deshielo de la Antártida). By Sergi Alcalde from National Geographic España, Mar 04, 2022. ([Link](#); in Spanish)
- *Great strain on Antarctica: Researchers and tourists drive snowmelt* (Große Belastung der Antarktis: Touristen und Forscher treiben Schneeschmelze an). By N-TV, Feb 24, 2022. ([Link](#); in German)
- *Every tourist in Antarctica causes up to 83 tonnes of ice to melt, study says* (Cada turista na Antártica causa o derretimento de até 83 toneladas de gelo, diz estudo). By Rafael Arbulu from Olhar Digital, Feb 23, 2022. ([Link](#); in Portuguese)
- *Not only climate change: Study determined how tourism and scientific research damage and contribute to melting Antarctica* (No solo el cambio climático: Estudio determinó cómo el turismo y la investigación científica dañan y contribuyen a derretir la Antártica). By Carlos Montes from La Tercera, Feb 22, 2022. ([Link](#); in Spanish)
- *Pollution exacerbates snowmelt in Antarctica* (Umweltverschmutzung verschlimmert Schneeschmelze in der Antarktis). By Jan Osterkamp from Spektrum, Feb 22, 2022. ([Link](#); in German)
- *Antarctic ice is melting so much not just because of global warming* (Nemcsak a globális felmelegedés miatt olvad ennyire az Antarktisz jége). By HVG, Feb 22, 2022. ([Link](#); in Hungarian)
- *Contribution of moisture sources to precipitation changes in the Three Gorges Reservoir Region* (水汽来源对三峡库区降水变化的影响). By Ying Li from China Three Gorges University, Hydro90, Nov 06, 2021. ([Link](#); in Chinese)
- *Scientists traveled 1,300 km in the Atacama Desert: they discovered that the color of the soil indicates its solar potential* (Científicos recorrieron 1.300 km en el desierto de Atacama: descubrieron que el color del suelo indica su potencial solar). By Carlos Montes from La Tercera, Oct 25, 2021. ([Link](#); in Spanish)
- *Perceptions of urban heat island mitigation and implementation strategies: survey and gap analysis* (城市热岛缓解和实施战略的看法：调查和差距分析). By Ke Feng and Yizhu Wang from Fudan University and Nanjing Agricultural University, Oct 24, 2021. ([Link](#); in Chinese)
- *Improving the simulation of urban trees in a single-layer urban canopy model – Arizona State University single-layer urban canopy model (ASLUM) v3.1* (提升单层城市冠层模型对城市树木的模拟能力 - 亚利桑那州立大学单层城市冠层模型 ASLUM v3.1). By Yixuan Yang from Urban Ecology Center at Fudan University, May 05, 2021. ([Link](#); in Chinese)

- *Clustering of cities under different environmental stressors* (不同环境压力下城市群的聚类效应). By Zhaowu Yu from Urban Ecology Center at Fudan University, Oct 24, 2020. ([Link](#) (also in GPUC: [Link](#); in Chinese)
- *Weekly featured articles in AGU China: Early-warning signals for critical temperature transitions* (AGU 本周精选文章: 临界温度变化的早期预警). By AGU China, Jul 17, 2020. ([Link](#); in Chinese)
- *The cooling effect of urban trees from the perspective of “efficiency”* (从“效率”谈城市树木的降温效应). By Zhaowu Yu from Urban Ecology Center at Fudan University, Jun 17, 2020. ([Link](#); in Chinese)

PROFESSIONAL MEMBERSHIPS

- American Geophysical Union (AGU), member since 2017
- American Meteorological Society (AMS), member since 2016
- American Meteorological Society (AMS) Committee on Meteorological Aspects of Air Pollution, student member in 2018–2020
- International Association for Urban Climate (IAUC) Bibliography Committee, member since 2019, committee chair since 2020
- International Association for Urban Climate (IAUC), member since 2016
- Chinese-American Oceanic and Atmospheric Association (COAA), member since 2022
- Data Institute for Societal Challenges (DISC), University of Oklahoma, affiliate since 2022
- Institute for Community and Society Transformation (ICAST), University of Oklahoma, affiliate since 2022
- American Institute of Chemical Engineers (AIChE), undergraduate student member in 2014–2015
- Wiley Science Advisors in Life, Earth & Environmental Sciences, John Wiley & Sons, Inc., member in 2013–2016

PROFILES OR WEBSITES

- Google Scholar profile: <https://scholar.google.com/citations?user=XFBSta4AAAAJ&hl=en>
- ResearchGate profile: <https://www.researchgate.net/profile/Chenghao-Wang-10>
- ORCID: <https://orcid.org/0000-0001-8846-4130>
- Web of Science profile: <https://www.webofscience.com/wos/author/record/O-7961-2017>
- OU School of Meteorology faculty profile: <http://meteorology.ou.edu/member/chenghao-wang/>
- OU Department of Geography and Environmental Sustainability faculty profile: <https://www.ou.edu/ags/geography/people/faculty>

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