**Chenghao Wang**

**Assistant Professor**

**University of Oklahoma** [chenghao.wang@ou.edu](mailto:chenghao.wang@ou.edu)

**Norman, OK 73019**

**Education**

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| BENG | Hydrology and Water Resources Engineering | China Three Gorges U | 2015 |
| MS | Civil, Environmental and Sustainable Engineering | Arizona State University | 2018 |
| Ph.D. | Civil, Environmental and Sustainable Engineering | Arizona State University | 2019 |

**Professional Experience**

**2024 – present National Center for Atmospheric Research, Boulder, CO**

Visiting Scholar

**2022 - present University of Oklahoma, School of Meteorology, Norman, OK**

Assistant Professor

**2022 - present, University of Oklahoma, Department of Geography and Environmental**

Assistant Professor

**2020 - 2022, Stanford University, Department of Earth System Science, Stanford, CA**

Postdoctoral Research Fellow

**2018 - 2018, Arizona State University, Ira A. Fulton Schools of Engineering, Tempe, AZ**

Graduate Teaching Associate

**2016 - 2017, Arizona State University, Ira A. Fulton Schools of Engineering, Tempe, AZ**

Graduate Teaching Associate

**2015 - 2019, Arizona State University, School of Sustainable Engineering and the Built Environment, Tempe, AZ**

Graduate Research Associate

#### **Representative publications on emissions from oil and gas systems**

1. Wang C, Li Q, Wang ZH. Quantifying the impact of urban trees on passive pollutant dispersion using a coupled large-eddy simulation–Lagrangian stochastic model. Building and Environment. 2018; 145:33–49. DOI: 10.1016/j.buildenv.2018.09.014
2. Wang C, Wang Z, Yang J, Li Q. A Backward-Lagrangian-Stochastic Footprint Model for the Urban Environment. Boundary-Layer Meteorology. 2018; 168(1):59-80. Available from: http://link.springer.com/10.1007/s10546-018-0338-6 DOI: 10.1007/s10546-018-0338-6
3. Li Q, Padilla L, Thompson T, Xiao S, Mohr E, Zhou X, Kacharava N, Cui Y, Wang C. A modeling framework to assess fenceline monitoring and self-reported upset emissions of benzene from multiple oil refineries in Texas. Atmospheric Environment X, 2024; 100281. DOI: 10.1016/j.aeaoa.2024.100281
4. Zhu B, Lui N, Irvin J, Tadwalkar S, Wang C, Ouyang Z, Liu FY, Ng AY, Jackson RB. METER-ML: A multi-sensor Earth observation benchmark for automated methane source mapping. Proceedings of the Second Workshop on Complex Data Challenges in Earth Observation (CDCEO 2022). 2022; 3207:33–43. Available from: http://ceurws.org/Vol-3207/paper6.pdf
5. Liu J, Xue F, Guo X, Yang Z, Kang M, Chen M, Ji D, Liu D, Xiao S, Wang, C. Methane dynamics altered by reservoir operations in a typical tributary of the Three Gorges Reservoir. Water Research. 2024; 122163. DOI: 10.1016/j.watres.2024.122163
6. Liu J, Xiao S, Wang C, Yang Z, Liu D, Guo X, Liu L, Lorke A. Spatial and temporal variability of dissolved methane concentrations and diffusive emissions in the Three Gorges Reservoir. Water Res. 2021; 207:117788. DOI: [10.1016/j.watres.2021.117788](https://doi.org/10.1016/j.watres.2021.117788)

**Synergistic activities**

1. Bibliography Committee of the International Association for Urban Climate (IAUC): Dr. Wang serves as the chair of the IAUC Bibliography Committee since 2020. The committee regularly reviews research advances in the broad field of urban climate and delivers them to the international community via quarterly newsletters
2. American Geophysical Union (AGU) June Bacon-Bercey Scholarship Committee: Dr. Wang serves as a member of the AGU June Bacon-Bercey Scholarship Committee. The committee evaluates scholarship applications to support women students with a demonstrated interest in atmospheric sciences and intersections with meteorology.
3. Conference Organization: Dr. Wang was the co-chair of the Representing Urban Processes and Dynamics in Models Across Scales session at the American Geophysical Union 2023 Fall Meeting, which was held in San Francisco, CA in Dec 2023.
4. Editorial Service: Dr. Wang serves as an associate editor for the Cell Press journal Heliyon since 2024.
5. Reviewer Service: Dr. Wang serves as a reviewer for the National Science Foundation and reviewed proposals for multiple programs since