

JING WANG

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RESEARCH INTERESTS

Urban Environments

- Extreme Winds, Canopy Ventilation
- Urban Heat Islands, Heterogeneous Surfaces
- Air Pollution Dispersion

EDUCATION

Princeton University

2019-present

Ph.D. in Civil and Environmental Engineering

Advisor: Prof. Elie Bou-Zeid

Research areas: urban wind extremes, air pollution, ventilation

Tsinghua University

2015-2019

Bachelor in Hydraulic Engineering

Advisor: Prof. Xiping Yu

Research areas: cyclones, air pollution

Thesis: The Statistical Law for Tropical Cyclone Intensity

Minor in Finance

PUBLICATIONS

Wang J, Liu Y, Shan K, Yu X. (2020) "Statistical trends of drift acceleration of tropical cyclones". *Journal of Hydroelectric Engineering*, 39(7), 88-98.

Leung D M, Shi H, Zhao B, **Wang J**, Ding E M, Gu Y, et al. (2020) "Wintertime particulate matter decrease buffered by unfavorable chemical processes despite emissions reductions in China". *Geophysical Research Letters*, 47, e2020GL087721.

PRESENTATIONS

Wang J, Gerges F, Bou-Zeid E. "Machine Learning for Predicting Air Quality". AMS2024, Jan 2024. (talk)

Wang J, Bou-Zeid E, Li Q, Giometto M, Llaguno-Munitxa M. "Understanding the Extreme Winds over Built Surfaces". AGU2021, Dec 2021. (poster)

Llaguno-Munitxa M, **Wang J**, Bou-Zeid E. "Low Cost Technologies for Ubiquitous Mobile Urban Sensing". 6th International Workshop on Infrared Technologies, Oct 2019. (poster)

TEACHING EXPERIENCES

Assistant in Instruction at Princeton University

MAE501: Mathematical Methods of Engineering Analysis I

Fall 2021

SCHOLARSHIPS AND AWARDS

Gordon Y.S. Wu Fellowship *for engineering graduate students* 2019

Baogang Scholarship *for undergraduate students* 2018

Zhengying Qian Scholarship *for Hydraulic Engineering students* 2017

SKILLS

Languages: Python, MATLAB, Fortran

Fluid Dynamics Simulation: Fluent

GIS: QGIS

Other: AutoCAD