Mark K. Wang（王凯章）

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Center for Water and the Environment, Room 44
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EDUCATION

The University of Texas at Austin   Austin, TX
Doctor of Philosophy | Civil Engineering   *Expected May 2025*
Master of Science | Environmental and Water Resources Engineering   *May 2022*
- Thesis: Near Real-Time Coastal Flood Mapping

Columbia University   New York, NY
Bachelor of Science | Civil Engineering | Water Resources Concentration   *May 2016*

Franklin & Marshall College   Lancaster, PA
Bachelor of Arts | Cognitive Science | Music Minor   *May 2016*

EXPERIENCE

Water Utility, City of Austin   Austin, TX
Systems Planning Engineering Intern   *Mar 2020 – Sep 2020*
- Developed python scripts for automatic storm event and sewer peak flow analysis
- Maintained GIS databases for long-range water infrastructure planning

Fulbright Program, U.S. Department of State   Zhuhai & Shenzhen, China
Research Grantee   *June 2019 – Feb 2020*
- Studied low-impact development and green infrastructure in the Pearl River Delta
- Investigated urban stormwater management techniques and their underlying policy in China

Mease Engineering, P.C.   Quakertown, PA
Civil Engineer   *Oct 2017 – June 2019*
- Performed hydrologic site analyses under pre- and post-development conditions
- Designed stormwater infiltration and attenuation systems for water quality and flow rate control
- Completed floodplain analyses, reports, and supporting calculations

NYC Department of Environmental Protection   New York, NY
Assistant Civil Engineer   *June 2016 – Oct 2017*
- Managed green stormwater infrastructure projects in public parks and streets
- Developed and reviewed construction drawings and contract specifications
- Coordinated with government agencies and engineering consultants

PUBLICATIONS & PRESENTATIONS

1. **Wang, Mark**, & Passalacqua, P. (2022). Near real-time coastal flood mapping. *Planet Texas 2050 Research Symposium.*

2. Shetty, N. H., Hu, R., Mailloux, B. J., Hsueh, D. Y., McGillis, W. R., **Wang, Mark**, Chandran, K., & Culligan, P. J. (2019). Studying the effect of bioswales on nutrient pollution in urban combined sewer systems. *Science of The Total Environment*, *665*, 944–958

3. Shetty, N. H., & **Wang, Mark**. (2018). Performance of a "next generation" green roof with irrigation and smart detention. *2018 EWRI International Low Impact Development Conference*, Abstract 437268.

Grants & Awards

National Science Foundation
- Graduate Research Fellowship | $102,000   *2020 – Present*

The University of Texas at Austin
- John E. Kasch Endowed Graduate Fellowship in Engineering   *2020 – Present*
- Dean's Prestigious Fellowship Supplement   *2020 – Present*

Fulbright Program, U.S. Department of State
- Study/Research Award | $23,300   *2019 – 2020*
- Critical Language Enhancement Award | $16,740   *2019*

Franklin & Marshall College
- *Magna cum laude* | Phi Beta Kappa   *2016*
- G. Kenneth Kohlmaier Family Scholarship   *2011 – 2014*
- C. Richard Plank Scholarship   *2011 – 2014*

Skills & Miscellaneous

Computational
- Python | MATLAB | LaTeX | Git | Slurm | Unix shell | ArcGIS Pro | QGIS | GRASS GIS | HEC-RAS | AutoCAD

Languages
- English (native speaker)
- Mandarin Chinese (professional working proficiency)

Licenses
- Engineer-in-Training (Pennsylvania License No. ET023499)

Completed Coursera Courses
- Machine Learning with Python [link to credential]
- Computer Vision and Image Processing Essentials [link to credential]
- Deep Learning Essentials with Keras [link to credential]