

Mark K. Wang (王凯章)

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Center for Water and the Environment, Room 44
10100 Burnet Road Bldg. 119, Austin, TX 78758

EDUCATION

The University of Texas at Austin <i>Doctor of Philosophy Civil Engineering</i> <i>Master of Science Environmental and Water Resources Engineering</i> <ul style="list-style-type: none">Thesis: Near Real-Time Coastal Flood Mapping	Austin, TX <i>Expected May 2025</i> <i>May 2022</i>
Columbia University <i>Bachelor of Science Civil Engineering Water Resources Concentration</i>	New York, NY <i>May 2016</i>
Franklin & Marshall College <i>Bachelor of Arts Cognitive Science Music Minor</i>	Lancaster, PA <i>May 2016</i>

RESEARCH EXPERIENCE

NOAA National Weather Service CUAHSI <i>Summer Institute Fellow</i> <ul style="list-style-type: none">Developed a GIS-based approach to couple riverine-coastal flood inundationSupported efforts to improve the National Water Model's NextGen framework	Tuscaloosa, AL <i>June 2022 – July 2022</i>
Fulbright Program, U.S. Department of State <i>Research Grantee</i> <ul style="list-style-type: none">Studied low-impact development and green infrastructure in the Pearl River DeltaInvestigated urban stormwater management techniques and their underlying policy in China	Zhuhai & Shenzhen, China <i>June 2019 – Feb 2020</i>

PROFESSIONAL EXPERIENCE

Water Utility, City of Austin <i>Systems Planning Engineering Intern</i> <ul style="list-style-type: none">Wrote python scripts for automatic storm event and sewer peak flow analysisMaintained GIS databases for long-range water infrastructure planning	Austin, TX <i>Mar 2020 – Sep 2020</i>
Mease Engineering, P.C. <i>Civil Engineer</i> <ul style="list-style-type: none">Performed hydrologic site analyses under pre- and post-development conditionsDesigned stormwater infiltration and attenuation systems for water quality and flow rate control	Quakertown, PA <i>Oct 2017 – June 2019</i>
NYC Department of Environmental Protection <i>Assistant Civil Engineer</i> <ul style="list-style-type: none">Managed green stormwater infrastructure projects in public parks and streetsDeveloped and reviewed construction drawings and contract specifications	New York, NY <i>June 2016 – Oct 2017</i>

PUBLICATIONS & PRESENTATIONS

- Wang, Mark**, & Passalacqua, P. (2022). Near real-time coastal flood mapping. *Planet Texas 2050 Research Symposium*.
- Shetty, N., **Wang, Mark**, Elliott, R., & Culligan, P. (2022). Examining how a smart rainwater harvesting system connected to a green roof can improve urban stormwater management. *Water*, 14(14)
- Shetty, N. H., Elliott, R. M., **Wang, Mark**, Palmer, M. I., & Culligan, P. J. (2022). Comparing the hydrological performance of an irrigated native vegetation green roof with a conventional sedum spp. green roof in new york city. *PLOS One*, 17(4), e0266593

4. 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
5. 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 | Git | Slurm | Unix shell | ArcGIS Pro | QGIS | L^AT_EX | 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](#)]