

# Mark K. Wang (王凯章)

mark-wang.com | mark.wang@utexas.edu | 717-598-5008 | linkedin.com/in/markkwang  
Center for Water and the Environment, Room 44  
10100 Burnet Road Bldg. 119, Austin, TX 78758

## EDUCATION

<b>The University of Texas at Austin</b> <i>Master of Science   Environmental and Water Resources Engineering</i>	Austin, TX <i>Expected May 2022</i>
<b>Columbia University</b> <i>Bachelor of Science   Civil Engineering   Water Resources Concentration</i>	New York, NY <i>May 2016</i>
<b>Franklin &amp; Marshall College</b> <i>Bachelor of Arts   Cognitive Science   Music Minor</i>	Lancaster, PA <i>May 2016</i>

## EXPERIENCE

<b>Water Utility, City of Austin</b> <i>Systems Planning Engineering Intern</i> <ul style="list-style-type: none"><li>Developed python scripts for automatic storm event and sewer peak flow analysis</li><li>Maintained GIS databases for long-range water infrastructure planning</li></ul>	Austin, TX <i>Mar 2020 – Sep 2020</i>
<b>Fulbright Program, U.S. Department of State</b> <i>Research Grantee</i> <ul style="list-style-type: none"><li>Studied low-impact development and green infrastructure in the Pearl River Delta</li><li>Investigated urban stormwater management techniques and their underlying policy in China</li></ul>	Zhuhai & Shenzhen, China <i>June 2019 – Feb 2020</i>
<b>Mease Engineering, P.C.</b> <i>Civil Engineer</i> <ul style="list-style-type: none"><li>Performed hydrologic site analyses under pre- and post-development conditions</li><li>Designed stormwater infiltration and attenuation systems for water quality and flow rate control</li><li>Completed floodplain analyses, reports, and supporting calculations</li></ul>	Quakertown, PA <i>Oct 2017 – June 2019</i>
<b>NYC Department of Environmental Protection</b> <i>Assistant Civil Engineer</i> <ul style="list-style-type: none"><li>Managed green stormwater infrastructure projects in public parks and streets</li><li>Developed and reviewed construction drawings and contract specifications</li><li>Coordinated with government agencies and engineering consultants</li></ul>	New York, NY <i>June 2016 – Oct 2017</i>

## PUBLICATIONS & CONFERENCE PRESENTATIONS

- 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
- 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

<b>National Science Foundation</b> <ul style="list-style-type: none"><li>Graduate Research Fellowship   \$102,000</li></ul>	<i>2020 – Present</i>
<b>Fulbright Program, U.S. Department of State</b> <ul style="list-style-type: none"><li>Study/Research Award   \$23,300</li><li>Critical Language Enhancement Award   \$16,740</li></ul>	<i>2019 – 2020</i> <i>2019</i>

## The University of Texas at Austin

- John E. Kasch Endowed Graduate Fellowship in Engineering *2020 – Present*
- Dean’s Prestigious Fellowship Supplement *2020 – Present*

## Franklin & Marshall College

- *Magna cum laude* *2016*
- G. Kenneth Kohlmaier Family Scholarship *2011 – 2014*
- C. Richard Plank Scholarship *2011 – 2014*

## SKILLS & MISCELLANEOUS

---

### Computational

- Python | MATLAB | L<sup>A</sup>T<sub>E</sub>X | 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]