Spent 6 months in Indonesia for a wharf project which

enhanced my ability of team work, communication, project

management, working hard, and etc.

* Collaborated with colleagues to check the design of the wharf, efficiently communicated with local workers.
* On-site inspection of project schedule in a tough work environment.

**Research Assistant**

Assisted with engineers in hydraulic design using Auto CAD.

2012.7-2012.9

**Internship**

BEIJING YUBING WATER SURVEY PLANNING AND DESIGN CO., LTD.

2015.7-2016.7

**WORK EXPERIENCE**

Project Topic: Quantifying Uncertainty of Probable Maximum Flood (PMF).

2016.9-2019.9

**RESEARCH EXPERIENCE**

10 years experiences in hydraulic/hydrologic related area, including 4 years undergraduate study, 2 years master graduate study, 1 year work experience in Indonesia as an assistant engineer and 3 years Ph.D. experiences as a research assistant in Texas A&M University.

Yu Zhang

Ph.D. candidate

**EDUCATION**

Date of birth: Feb. 8, 1990

Phone: 9792043122

Email: zhangyu199002@tamu.edu

Address: 502 southwest pkwy, apt 604, college station, TX, 77840

**SUMMARY**

2016- Ph.D.

Texas A&M University

Hydrologic Engineering

GPA:3.9

2013-2015 MASTER

China Agricultural University

Hydrology and Water Resources

2009-2013 BACHELOR

China Agricultural University

Hydroelectric Engineering

**SKILLS**

ArcGIS, Auto CAD, MATLAB, Python, HEC-HMS, HEC-GeoHMS, HEC-RAS, WRAP

**HONOR & AWARDS**

**PERSONAL DATA**

Collected and analyzed large amount of data, analyzed the critical water consuming status of NCP using water footprint concept. assessment.

**Graduate student**

2013.7-2015.9

Project Topic: Water, Carbon Footprint Assessment Method for Irrigation Agriculture and its Application in North China Plain (NCP).

CHINA STATE CONSTRUCTION PORT ENGINEERING GROUP CORP., LTD.

**Assistant Engineer**

The project was funded by US Army Engineering Corps. Two major journal papers were published, another 2 are on the way.

* Developed a basin-scale statistical method to estimate probable maximum precipitation (PMP) and its uncertainty.
* Transferred PMP to PMF using hydrological modeling using software packages such as HEC-HMS, HEC-GeoHMS, Arc-GIS and Python.
* Systematically quantified the uncertainties through the whole process using statistical and hydrological methodologies.

2020 Texas A&M OGAPS

dissertation fellowship

2012 Second prize graduate

scholarship; Merit student

2014 Second prize graduate

scholarship

2016 Departmental competitive

graduate scholarship

2017 Alpha Epsilon certificate

2019 Departmental competitive

graduate scholarship

2011 Third prize graduate

scholarship; Merit

student; ‘Honorable

mention’ of

Interdisciplinary Contest

in Modeling (ICM)

**Work Authorization:** Eligible to intern with CPT; to work for 36 months without sponsorship using OPT, sponsorship needed after OPT.

1. 2019.7, Boston. American Society of Agricultural and Biological Engineers Annual International Meeting. Presentation Session: 313 Modeling of Water Quality and Hydrology. Presentation title: Hydrologic Modeling of Extreme Events in Large-scale Basin.

2. 2019.3, College station. Water Daze lectures & Poster Competition. Poster title: Basin-Scale Statistical Method for Probable Maximum Precipitation with Uncertainty Analysis.

3. 2018.10, College station. Lehrer Chair Advisory Council Meeting. Presentation title: Probable Maximum Precipitation (PMP) and Probable Maximum Flood (PMF)

4. 2017.11, College station. Lehrer Chair Advisory Council Meeting. Presentation title: Probable maximum precipitation (PMP) with uncertainties in Brazos River, TX.

**CONFERENCES & PRESENTATIONS**

1. Lixi, Z., Pengbo, S., Fang, J., Hengqing, Q., Shumei, R., Yunkai, L., & Yu, Z. (2014). Using monitoring data of surface soil to predict whole crop-root zone soil water content with PSO-LSSVM, GRNN and WNN. Earth Science Informatics, 7(1), 59-68.

2. Zhang, Y., Li, Y., Ouyang, Z., & Liu, J. (2015). The grey water footprint of the winter wheat-summer maize crop rotation system of the North China Plain. Acta Ecol. Sin, 35, 6647-6654.

3. Zeng, X., Zhao, L., & Zhang, Y. (2015). Estimation method for ET0 with PSO-LSSVM based on HHT transform in data shortage area. Journal of Irrigation and Drainage, 34(2), 1-6.

4. Zhang, Y., Singh, V., & Byrd, A. (2017). Entropy Parameter M in Modeling a Flow Duration Curve. Entropy, 19(12), 654.

5. Zhang, Y., Singh, V. P., & Byrd, A. R. (2018). Basin-Scale Statistical Method for Probable Maximum Precipitation with Uncertainty Analysis. Journal of Hydrologic Engineering, 24(2), 04018067.

6. Zhang, Y., Singh, V. P., & Byrd, A. R. (2019). Effect of Scale on Modeling Extreme Flood Events with Uncertainty Analysis. Journal of Hydrology. (submitted)

7. Li, Y., Chen, X., Zhou, B., Singh, V., Zhang, Y. & Liu, J. (2019). Agricultural efficient irrigation management for Sustainable Development Goals in oasis. Science Advances. (submitted)

8. Xu, Z., Chen, X., Chau, S., Zhang, Y., Connor, T., Li, Y., Li, Y. & Liu, J. (2019). Food-energy-water-CO2 nexus across metacoupled systems. Nature Communication. (second round review)

**PUBLICATIONS**