

Ph.D. Student, Graduate Research Associate  
ARIZONA STATE UNIVERSITY  
School of Sustainable Engineering and the Built Environment  
Ira A. Fulton Schools of Engineering

Office: ISTB4 Room 334  
Tempe, AZ 85287  
Email: cwang210@asu.edu  
Mobile: +1-480-241-2504

## Chenghao WANG

Google Scholar Website: <https://scholar.google.com/citations?user=XFBSta4AAAAJ&hl>

ResearchGate Website: [https://www.researchgate.net/profile/Chenghao\\_Wang](https://www.researchgate.net/profile/Chenghao_Wang)

### Education

- Sep 2011 – Jun 2015 **China Three Gorges University (CTGU)** Yichang, Hubei Province, China  
B. Eng., Hydrology and Water Resources Engineering  
Overall GPA: 91.32/100 Major GPA: 92.69/100 Ranking: 1/90
- Dec 2013 – Jan 2013 **The Ohio State University (OSU)** Columbus, Ohio, USA  
Visit student, Environmental Science  
Sponsored by Hubei Outstanding University Student Overseas Study Program 2013, 68 out of more than 1 million students  
Overall Grade: 94.75/100 Overall GPA: 4.0/4.0 Ranking: 1/26
- Aug 2015 - expected **Arizona State University (ASU)** Tempe, Arizona, USA  
Ph.D., Civil, Environmental and Sustainable Engineering  
Graduate Research Associate

### Research Areas

Urban Hydrology and Meteorology, Hydrologic and Water Resource Modeling and Simulation, Climate Change, Greenhouse Gases, Environment, Biogeochemistry, Environmental Geology, Hydraulic Structure

### Peer-Reviewed Journal Articles

- Wang, C.\***, & Li, X. (2015). Primary Assessment of the Daytime Aquatic Environment in Summer at Three Gorges Reservoir and Yangtze River's Yichang Section." *Science and Technology Innovation Herald*, 12(3), 111-114. (In Chinese)
- Wang, C.**, Xiao, S.\*, Li, Y., Zhong, H., Li, X., & Peng, F. (2014). Methane formation and consumption processes in Xiangxi Bay of the Three Gorges Reservoir. *Scientific Reports*, 4. (5.58 Impact Factor)
- Xiao, S.\*, Yang, H., Liu, D., Zhang, C., Lei, D., Wang, Y., Peng, F., Li, Y., **Wang, C.**, Li, X., Wu, G., & Liu, L. (2014). Gas transfer velocities of methane and carbon dioxide in a subtropical shallow pond. *Tellus B*, 66. (3.76 Impact Factor)
- Xiao, S.\*, Liu, W., Yang, H., Lei, D., Wang, Y., Peng, F., Li, Y., **Wang, C.**, Zhang C., Li, X., Wu, G., Liu, L., & Ouyang, K. (2014). Extreme Methane Bubbling Emissions from a Subtropical Shallow Eutrophic Pond. *Austin Biometrics and Biostatistics*, 1(2): 1-6.
- Wang, C.\*** (2014). Research of Sustainable Development on Waterway Transportation in China. *ASCE: Application of Nanotechnology in Pavements, Geological Disasters, and Foundation Settlement Control Technology, Transportation Issues in Developing Countries*, GSP 244: 32-39.

**Wang, C.\*** (2014). Current Research of Sediment Incipient Motion Velocity. *Science and Technology Innovation Herald*, 11(26): 32-36. (In Chinese)

**Wang, C.\***, & Luo Z. (2012). A Calculation Method for Storage Outflow of the Firm Power under Lack of Data. *China New Technologies and Products*, 19: 70-71. (In Chinese)

### Articles in Refereed Conference Proceedings

**Wang, C.\***, Structure Design and Mechanics Calculation of Aqueduct Model. *Desalination and Water Treatment*. The 2014 IWA Alternative Water Resources Conference, Nanjing, Jiangsu Province, China, May 2015, abstract accepted.

Li, X., Chen, P., Ye, Y.\*, & **Wang, C.**, Structure Design and Mechanics Calculation of Aqueduct Model. *Materials science, Civil engineering and Architecture Science, Mechanical Engineering and Manufacturing Technology, Applied Mechanics and Materials*, 488: 381-384. The 2014 International Conference on Advanced Engineering Materials and Architecture Science, Xi'an, Shanxi Province, China, January 2014.

**Wang, C.**, Liu, J.\*, & Xuan, Y., Research on Various Operation Modes of Geheyan Hydropower Station Reservoir in the Qingjiang River. *Advances In Environmental Technologies, Advanced Materials Research*, 726: 3486-3491. The 2013/2nd International Conference on Energy and Environmental Protection, Guilin, Guizhou Province, China, April 2013.

### Articles in Review at Peer-Reviewed Journal

Xiao, S.\*, **Wang, C.**, Wilkinson, J., Liu, D., Zhang, C., Xu, W., Yang, Z., Wang, Y., & Lei, D. (2015). Improving static floating chamber-based gas fluxes estimation across water-air interfaces using exponential regression. *Environmental Science & Technology*, 1st revision in review. (5.33 Impact Factor)

**Wang, C.**, Liu, J.\*, Dong, X., Yu, D. (2015). Impacts of climate change and land use change on discharge based on CMIP5 climate models in Qingjiang River Basin, China. *Water Resources and Power*, in review. (In Chinese)

**Wang, C.**, Liu, J.\*, Dong, X., Yu, D. (2015). Discharge response to CMIP5 climate change projections in Qingjiang River Basin, China. *Resources and Environment in the Yangtze Basin*, in review. (In Chinese)

Xiao, S.\*, Li, Y., Zhang, C., Lei, D., Liu, L., Wu, G., & **Wang, C.** (2014). Diel Variation of Greenhouse Fluxes at a Eutrophic Subtropical Pond in Early Spring: the Case of Qiusuoxi pond, Yichang, China. *Resources and Environment in the Yangtze Basin*, in review. (In Chinese)

### P.R.C. Patents

**Chenghao Wang**, Peng Zhao, Xianglong Li, Jia Liu, Yawen She, & Huayao Zhong: *Air Sample and Inhalable Particle Sampler*. Ref. No: CN201420174368.5, Year: August 2014.

**Chenghao Wang**: *Automatic Flood Diversion and Aerating System for Urban Landscape River Channels*. Ref. No: CN201420121440.8, Year: August 2014.

**Chenghao Wang**: *Solar Screened Water Bloom Eliminating Boat*. Ref. No: CN201320536201.4, Year: June 2014.

**Chenghao Wang**, Zesen Luo, Yixi Lei, Mao Wang, Yisong Liu, & Hui Peng: *Flood Discharging Electricity Energy Dissipation Hydropower Station*. Ref. No: CN201320661937.4, Year: April 2014.

**Chenghao Wang**: *Spillway Impulse Water Turbine*. Ref. No: CN201320578623.8, Year: March 2014.

**Chenghao Wang**: *Anti-blocking Catch Basin Lid*. Ref. No: CN201320535504.4, Year: February 2014.

**Chenghao Wang:** *Water Stopper for Gas Inlet System of Gas Analyzer*. Ref. No: CN201320561220.2, Year: February 2014.

**Chenghao Wang,** Zeren Luo, Yixi Lei, Mao Wang, Yisong Liu, & Hui Peng: *Flood Discharge and Power Generation Energy Dissipation Hydropower Station*. Ref. No: CN201310508610.8, Year: January 2014.

**Chenghao Wang:** *Multifunctional Field Environment Factor Collection Work Box*. Ref. No: CN201320535849.X, Year: January 2014.

## Participation in Book Review

Ping Li, & Karen Marrongelle: *Having Success with NSF: A Practical Guide*. John Wiley & Sons, USA; October, 2013 – November 2013, reviewer, post a review on line.

## Presentations and Conferences

**Wang, C.,** Liu, J., Li, Y., & Peng, T., 11<sup>th</sup> China Water Forum, Representatives of China Three Gorges University, Guangzhou, Guangdong Province, China, November 2013.

**Wang, C.,** Luo, Z., Lei, Y., Wang M., Liu, Y.\*, Research on Flood Discharge and Power Generation Energy Dissipation Hydropower Station. Zhengzhou, Henan Province, China, July 2013.

## Grants and Research Projects

*Sep 2013 – Jun 2015* Leader, Mechanism of Greenhouse Gases Emission in the Meiziya Reservoir. (sponsored by China Three Gorges University & Collaborative Innovation Center for Geo-Hazards and Eco-Environment in Three Gorges Area, Hubei Province (CICGE), Advisor: Dr. Shangbin Xiao)

*Sep 2013 – Sep 2014* Participant, Study on Main Composition of Photochemical Pollution in Yichang. (sponsored by China Three Gorges University, Advisor: Dr. Shangbin Xiao)

*Jun 2013 – May 2015* Participant, *Mechanism of Carbon Emission in the Three Gorges Reservoir*. (sponsored by National Science Foundation of China, PI: Dr. Shangbin Xiao)

*Feb 2013 – Aug 2013* Leader, *Flood Discharge and Power Generation Energy Dissipation Hydropower Station*. (sponsored by China Three Gorges University, Advisor: Dr. Yisong Liu and Dr. Hui Peng)

*Oct 2012 – Sep 2013* Participant, *Study on Evolution Law of Flood Control Risk with Ensemble Forecasting*. (sponsored by National Science Foundation of China, PI: Dr. Ji Liu)

*Oct 2012 – Jun 2013* Leader, *Simulation Research on Methane Emission of Sediments from Reservoir*. (sponsored by China Three Gorges University)

*Oct 2012 – May 2015* Participant, *Flood Control Operation of Reservoir by Rainfall Forecasting*. (sponsored by China Three Gorges University)

*Oct 2011 – Oct 2012* Leader, *Research on Various Operation Modes of Geheyan Reservoir*. (sponsored by China Three Gorges University)

## Awards & Scholarships

7th China National Excellent Graduate in Hydraulic Engineering, 2015

Outstanding Undergraduate Student in Scientific Research, Engineering Research Center of Eco-environment in Three Gorges Reservoir Region, Ministry of Education, 2015

2nd Yangtze River Outstanding Student - Hubei Province Excellent Graduate, 2015

Graduation with Honor (undergraduate student), China Three Gorges University, 2015

China Yangtze Power Co., Ltd. Scholarship, 2014

The Nomination Award, 4th China National Top 10 Future Hydraulic Stars, 2014

Top 10 Outstanding Youths of China Three Gorges University (10 out of 36,000 students), 2014

Outstanding Exchange Student of China Three Gorges University, 2014

The Grand Prize, Scholarship of China Three Gorges University (13 out of 36,000 students), 2014

The Grand Prize, Scholarship of China Three Gorges University (6 out of 36,000 students), 2013

The Second Prize, 3rd China National Undergraduate Hydraulic Innovational Design Competition, 2013

The Second Prize, SPRING into Wiley Online Library (China Region), John Wiley & Sons, USA, 2013

Excellent Group (Environmental Protection in Yangtze River), Social Practice of Hubei Province, China, 2012

National Scholarship of China (No. 2012 38592), 2012

The First Prize, Scholarship of China Three Gorges University, 2012, 2015

The First Prize, Science and Technology Project of College Students, China Three Gorges University, 2012-2014

The First Prize, Structure Model Design Competition of College of Hydraulic and Environmental Engineering, China Three Gorges University, 2012

Merit Student & Top Student of China Three Gorges University, 2011-2015

The Nomination Award, Outstanding Scholarship of Three Gorges Region, 2011-2014

## Professional Memberships

Wiley Science Advisors in John Wiley & Sons Inc., since 2013

Student member in American Institute of Chemical Engineers (AIChE), since 2015

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Last updated: August 2, 2015