

# Guotao Cui

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## EDUCATION

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2014–PRESENT	Ph.D. in CIVIL ENGINEERING, <b>University of Wyoming</b> , WY, USA → Major in WATER RESOURCES & HYDROLOGY, <i>Graduation</i> : Dec. 2017 → Dissertation: Infiltration process in sloping layered soils → Adviser: Jianting (Julian) Zhu, Ph.D.
2010–2013	M.S. in HYDROLOGY & WATER RESOURCES, <b>Zhengzhou University</b> , Henan, China → Adviser: Qiting Zuo, Ph.D.
2006–2010	B.S. in WATER CONSERVANCY & HYDROPOWER ENGINEERING, <b>Zhengzhou University</b> , Henan, China

## REFEREED JOURNAL PUBLICATIONS

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1. **Cui, G.**, and J. Zhu (2017), Prediction of unsaturated flow and water backfill during infiltration, *Journal of Hydrology*, 557, 509–521, doi:10.1016/j.jhydrol.2017.12.050.
2. **Cui, G.**, and J. Zhu (2017), Infiltration model based on traveling characteristics of wetting front, *Soil Science Society of America Journal*, doi:10.2136/sssaj2017.08.0303.
3. **Cui, G.**, and J. Zhu (2017), Infiltration model in sloping layered soils and guidelines for model parameter estimation, *Hydrological Sciences Journal*, 62(13), 2222–2237, doi:10.1080/02626667.2017.1371848.
4. **Cui, G.**, and J. Zhu (2018), Modeling infiltration and runoff with surface crust under unsteady rainfalls, *Journal of Hydrologic Engineering*, (Accepted January 2018).
5. Cheng, Y., **G. Cui**, and J. Zhu (2017), Using time compression approximation to determine actual infiltration rate from variable rainfall events, *Hydrology Research*, doi:10.2166/nh.2017.062.
6. Zuo, Q., and **G. Cui** (2013), International viewpoint and news: Chemical leaks contaminate Chinese river: Viewing environmental emergency response of China, *Environmental Earth Sciences*, 69(8), 2801–2803, doi:10.1007/s12665-013-2331-1.
7. Li, D., Q. Zuo, and **G. Cui** (2013), Disposal of chemical contaminants into groundwater: viewing hidden environmental pollution in China, *Environmental Earth Sciences*, 70(4), 1933–1935, doi:10.1007/s12665-013-2463-3.
8. Zuo, Q., R. Jin, J. Ma, and **G. Cui** (2014), China pursues a strict water resources management system, *Environmental Earth Sciences*, 72(6), 2219–2222, doi:10.1007/s12665-014-3369-4.
9. Zuo, Q., H. Zhao, C. Mao, J. Ma, and **G. Cui** (2015), Quantitative analysis of human-water relationships and harmony-based regulation in the Tarim river basin, *Journal of Hydrologic Engineering*, 20(8), 05014030, doi:10.1061/(ASCE)HE.1943-5584.0001118.
10. Zuo, Q., R. Jin, J. Ma, and **G. Cui** (2015), Description and application of a mathematical method for the analysis of harmony, *The Scientific World Journal*, doi:10.1155/2015/831396.

## OTHER PUBLICATIONS

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11. **Cui, G.**, and Q. Zuo (2012), Analysis and quantitative evaluation of human activities affecting river system network interconnected relationship, *Journal of Water Resources Research*, 1, 326–333. (in Chinese).
12. **Cui, G.**, and Q. Zuo (2012), Relationship between interconnected river system network and the strictest water resources management system, *South-to-North Water Transfers and Water Science & Technology*, 2, 129–132. (in Chinese)
13. **Cui, G.**, Q. Zuo, Z. Li, and M. Dou (2012), Analysis of function and adaptability for interconnected river system network, *Water Resources and Power*, 2, 1–5. (in Chinese)

14. **Cui, G.**, Q. Zuo, and M. Dou (2011), Development evolution and influences of the interconnected river system network at home and abroad, *South-to-North Water Transfers and Water Science & Technology*, 4, 73–76. (in Chinese)
15. **Cui, G.**, and Q. Zuo (2011), Research status and prospect of ecological regulation, *South-to-North Water Transfers and Water Science & Technology*, 6, 90–97. (in Chinese)
16. Zuo, Q., and **G. Cui** (2012), Study on theoretical system and framework of interconnected river system network, *Water Resources and Power*, 1, 1–5. (in Chinese)
17. Dou M., **G. Cui**, Q. Zuo, C. Wang, C. Mao, and Y. Xu (2011), Character analysis of interconnected river system network, *China Water Resources*, 16, 17–19. (in Chinese)
18. Zuo, Q., and **G. Cui** (2012), Improvement of management and protection system in water function zones, *China Water Resources News*, March 15, 2012. (Newspaper, in Chinese)
19. Hu, Y., and **G. Cui** (2012), Discussions on strategic direction of water conservancy development in Heilongjiang province, *Heilongjiang Science and Technology of Water Conservancy*, 12, 207–210. (in Chinese)
20. Zuo, Q., B. Zhang, Z. Wang, F. Guan, and **G. Cui** (2011), Revelation and discussion on water science research from the “2011 No.1 document by the central committee of the CPC”, *South-to-North Water Transfers and Water Science & Technology*, 5, 68–73. (in Chinese)

## PRESENTATIONS

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1. **Cui, G.**, and J. Zhu, A simple and accurate rate-driven infiltration model, *American Geophysical Union (AGU) Fall Meeting*, Abstract H33D-1704, New Orleans, LA, USA, Dec. 11–15, 2017.
2. **Cui, G.**, and J. Zhu, Dynamic modeling of infiltration in unsaturated layered soils, *American Geophysical Union (AGU) Fall Meeting*, Abstract H21C-1410, San Francisco, CA, USA, Dec. 12–16, 2016.
3. **Cui, G.**, and J. Zhu, Effective Green-Ampt parameters of sloping layered soils, *American Geophysical Union (AGU) Fall Meeting*, Abstract H23B-1583, San Francisco, CA, USA, Dec. 14–18, 2015.
4. **Cui, G.**, and J. Zhu, Effective hydraulic parameters for sloping heterogeneous soil formations, *Soil Science Society of America (SSSA) Annual Meeting*, Abstract 321-9, Minneapolis, MN, USA, Nov. 15–18, 2015.
5. **Cui, G.**, and Q. Zuo, Analysis and quantitative evaluation of human activities affecting river system network interconnected relationship, *The 10th China Water Forum*, Wuhan, China, Aug. 24–26, 2012.
6. **Cui, G.**, and J. Zhu, Infiltration model in layered soils: Application of steady-state modeling, *Civil Engineering Seminar at University of Wyoming*, Laramie, WY, USA, Mar. 9, 2017.

## HONOURS & AWARDS

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| • Summer Ph.D. Augmentation, University of Wyoming, WY, USA   | 2017 |
| • “Zhang Guangdou Funding” Scholarship for Highly Promising Students, Tsinghua University Education Foundation, China | 2013 |
| • Outstanding Graduate Award of Henan Province, Department of Education of Henan Province, China                      | 2013 |
| • National Graduate Scholarship, Ministry of Education of China, China  | 2012 |
| • Outstanding Graduate Research Award, Zhengzhou University, China  | 2012 |
| • Outstanding Youth Paper Award of China Water Forum, China Society of Natural Resources, China                       | 2012 |
| • Undergraduate Scholarship, Zhengzhou University, China  | 2007 |

## PROFESSIONAL SERVICE

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- *Professional Affiliations*: American Geophysical Union (AGU), Member since 2015.
- *Peer Reviewer*: Journal of Hydrology, Environmental Earth Sciences.

## COMPUTER/PROGRAMMING SKILLS

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- *Programming Languages*: Python, C++, GNU/Linux Bash, Fortran, Matlab, L<sup>A</sup>T<sub>E</sub>X.
- *Skills*: HYDRUS, SWAT, MODFLOW, GIS, TensorFlow, Git, OpenMP.