

# Yaoze Liu

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University at Albany, The State University of New York (SUNY)  
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## EMPLOYMENT

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- Assistant Professor** August, 2018-present  
Department of Environmental and Sustainable Engineering, University at Albany, SUNY, Albany, NY
- Post-Doctoral Researcher** June, 2015-July, 2018  
Department of Agricultural and Biological Engineering, Purdue University, West Lafayette, IN

## EDUCATION

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- Ph.D., Agricultural and Biological Engineering**, Purdue University, West Lafayette, IN May, 2015  
**Master, Hydraulic Engineering**, China Agricultural University, China July, 2011  
**Bachelor, Irrigation and Drainage Engineering**, China Agricultural University, China July, 2009

## RESEARCH INTERESTS

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- Hydrologic and Water Quality Modeling
- Urban Green Infrastructure Practices
- Agricultural Best Management Practices (BMPs)
- Decision Support Systems (DSS) for Water Resources Sustainability
- Water-Energy-Food Nexus
- Interactions among Climate Change, Land Use/Land Cover Change, and Hydrology/Water Quality

## PUBLICATIONS

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1. Fawen Li, Manjing Zhang, *Yaoze Liu*. 2022. Quantitative research on drought loss sensitivity of summer maize based on AquaCrop model. *Natural Hazards*. DOI: 10.1007/s11069-022-05218-w
2. Dongyang Ren, Bernard Engel, Johann Alexander Vera Mercado, Tian Guo, *Yaoze Liu*, Guanhua Huang. 2021. Modeling and assessing water and nutrient balances in a tile-drained agricultural watershed in the US Corn Belt. *Water Research*. DOI: 10.1016/j.watres.2021.117976
3. Siyu Li, *Yaoze Liu (Corresponding Author)*, Younggu Her, Jingqiu Chen, Tian Guo, Gang Shao. 2021. Improvement of simulating sub-daily hydrological impacts of rainwater harvesting for landscape irrigation with rain barrels/cisterns in the SWAT model. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2021.149336
4. Tian Guo, Anurag Srivastava, Dennis C Flanagan, *Yaoze Liu*, Bernard A Engel, Madeline M McIntosh. 2021. Evaluation of Costs and Efficiencies of Urban Low Impact Development (LID) Practices on Stormwater Runoff and Soil Erosion in an Urban Watershed Using the Water Erosion Prediction Project (WEPP) Model. *Water*. DOI: 10.3390/w13152076

5. Fazhi Li, Jingqiu Chen, Bernard A Engel, *Yaoze Liu*, Shizhong Wang, Hua Sun. 2021. Assessing the effectiveness and cost efficiency of green infrastructure practices on surface runoff reduction at an urban watershed in China. *Water*. DOI: 10.3390/w13010024
6. Yang Xiao, *Yaoze Liu*, Changjian Ma, Tahir Muhammad, Bo Zhou, Yunpeng Zhou, Peng Song, Yunkai Li. 2021. Using electromagnetic fields to inhibit biofouling and scaling in biogas slurry drip irrigation emitters. *Journal of Hazardous Materials*. DOI: 10.1016/j.jhazmat.2020.123265
7. Yang Xiao, Barbara Sawicka, *Yaoze Liu*, Bo Zhou, Peng Hou, Yunkai Li. 2020. Visualizing the macroscale spatial distributions of biofilms in complex flow channels using industrial computed tomography. *Biofouling*. DOI: 10.1080/08927014.2020.1728260
8. *Yaoze Liu*, Tian Guo, Ruoyu Wang, Bernard A Engel, Dennis C Flanagan, Siyu Li, Bryan C Pijanowski, Paris D Collingsworth, John G Lee, Carlington W Wallace. 2019. A SWAT-based optimization tool for obtaining cost-effective strategies for agricultural conservation practice implementation at watershed scales. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2019.07.175
9. *Yaoze Liu*, Ruoyu Wang, Tian Guo, Bernard A Engel, Dennis C Flanagan, John G Lee, Siyu Li, Bryan C Pijanowski, Paris D Collingsworth, Carlington W Wallace. 2019. Evaluating efficiencies and cost-effectiveness of best management practices in improving agricultural water quality using integrated SWAT and Cost Evaluation Tool. *Journal of Hydrology*. DOI:10.1016/j.jhydrol.2019.123965
10. Jingqiu Chen, *Yaoze Liu*, Margaret W. Gitau, Bernard A. Engel, Dennis C. Flanagan, Jonathan M. Harbor. 2019. Evaluation of the effectiveness of green infrastructure on hydrology and water quality in a combined sewer overflow community. *Science of The Total Environment*. DOI: 10.1016/j.scitotenv.2019.01.416
11. Fazhi Li, *Yaoze Liu*, Bernard A. Engel, Jingqiu Chen, Hua Sun. 2019. Green infrastructure practices simulation of the impacts of land use on surface runoff: Case study in Ecorse River watershed, Michigan. *Journal of Environmental Management*. DOI: 10.1016/j.jenvman.2018.12.078
12. Fazhi Li, Jingqiu Chen, *Yaoze Liu*, Peng Xu, Hua Sun, Bernard A Engel, Shizhong Wang. 2019. Assessment of the Impacts of Land Use/Cover Change and Rainfall Change on Surface Runoff in China. *Sustainability*. DOI: 10.3390/su11133535
13. Peng Song, Bo Zhou, Gary Feng, John P Brooks, Hongxu Zhou, Zhirui Zhao, *Yaoze Liu*, Yunkai Li. 2019. The influence of chlorination timing and concentration on microbial communities in labyrinth channels: implications for biofilm removal. *Biofouling*. DOI: 10.1080/08927014.2019.1600191
14. *Yaoze Liu*, Bernard A. Engel, Dennis C. Flanagan, Margaret W. Gitau, Sara K. McMillan, Indrajeet Chaubey, Shweta Singh. 2018. Modeling framework for representing long-term effectiveness of best management practices in addressing hydrology and water quality problems: Framework development and demonstration using a Bayesian method. *Journal of Hydrology*. DOI: 10.1016/j.jhydrol.2018.03.053
15. Te Xu, Bernard A. Engel, Xinmei Shi, Linyuan Leng, Haifeng Jia, L Yu Shaw, *Yaoze Liu*. 2018. Marginal-cost-based greedy strategy (MCGS): Fast and reliable optimization of low impact development (LID) layout. *Science of The Total Environment*. DOI: 10.1016/j.scitotenv.2018.05.358
16. *Yaoze Liu*, Bernard A. Engel, Paris D. Collingsworth, Bryan C. Pijanowski. 2017. Optimal implementation of green infrastructure practices to minimize influences of land use change and climate change on hydrology

and water quality: Case study in Spy Run Creek watershed, Indiana. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2017.06.015

17. ***Yaoze Liu***, Bernard A. Engel, Dennis C. Flanagan, Margaret W. Gitau, Sara K. McMillan, Indrajeet Chaubey. 2017. A review on effectiveness of best management practices in improving hydrology and water quality: needs and opportunities. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2017.05.212
18. ***Yaoze Liu***, Sisi Li, Carlington W. Wallace, Indrajeet Chaubey, Dennis C. Flanagan, Lawrence O. Theller, Bernard A. Engel. 2017. Comparison of computer models for estimating hydrology and water quality in an agricultural watershed. *Water Resources Management*. DOI:10.1007/s11269-017-1691-9
19. ***Yaoze Liu***, Lawrence O. Theller, Bryan C. Pijanowski, Bernard A. Engel. 2016. Optimal selection and placement of green infrastructure to reduce impacts of land use change and climate change on hydrology and water quality: an application to the Trail Creek watershed, Indiana. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2016.02.116
20. ***Yaoze Liu***, Raj Cibin, Vincent F. Bralts, Indrajeet Chaubey, Laura, C. Bowling, Bernard A. Engel. 2016. Optimal selection and placement of BMPs and LID practices with a rainfall-runoff model. *Environmental Modelling & Software*. DOI: 10.1016/j.envsoft.2016.03.005
21. ***Yaoze Liu***, Indrajeet Chaubey, Laura C. Bowling, Vincent F. Bralts, Bernard A. Engel. 2016. Sensitivity and uncertainty analysis of the L-THIA-LID 2.1 model. *Water Resources Management*. DOI: 10.1007/s11269-016-1462-z
22. Timothy J. Wright, ***Yaoze Liu***, Natalie J. Carroll, Laurent M. Ahiablame, Bernard A. Engel. 2016. Retrofitting LID practices into existing neighborhoods: is it worth it? *Environmental Management*. DOI: 10.1007/s00267-015-0651-5
23. Haosu Sun, Yunkai Li, Ji Feng, Haisheng Liu, ***Yaoze Liu***. 2016. Effects of flow path boundary optimizations on particle transport in drip irrigation emitters. *Irrigation and Drainage*. DOI: 10.1002/ird.2017
24. ***Yaoze Liu***, Vincent F. Bralts, Bernard A. Engel. 2015. Evaluating the effectiveness of management practices on hydrology and water quality at watershed scale with a rainfall-runoff model. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2014.12.077
25. ***Yaoze Liu***, Laurent M. Ahiablame, Vincent F. Bralts, Bernard A. Engel. 2015. Enhancing a rainfall-runoff model to assess the impacts of BMPs and LID practices on storm runoff. *Journal of Environmental Management*. DOI: 10.1016/j.jenvman.2014.09.005
26. Bo Zhou, Yunkai Li, ***Yaoze Liu***, Feipeng Xu, Yiting Pei, Zhenhua Wang. 2015. Effect of drip irrigation frequency on emitter clogging using reclaimed water. *Irrigation Science*. DOI: 10.1007/s00271-015-0461-9
27. Lixi Zhao, Yunkai Li, Fang Jiang, Hui Wang, Shumei Ren, ***Yaoze Liu***, Zhiyun Ouyang. 2015. Comparative advantage for the areas irrigated with underground blue water in North China Plain. *Water Policy*. DOI: 10.2166/wp.2015.114
28. Chunfa Zhou, Xiaoxuan Fan, Zigong Ning, Pengxiang Li, Chengcheng Liu, Peiling Yang, ***Yaoze Liu***, Ze Shi, Yunkai Li. 2015. Reducing riverbed infiltration using mixtures of sodium bentonite and clay. *Environmental Earth Sciences*. DOI: 10.1007/s12665-015-4347-1

29. Zigong Ning, Mingchao Liang, Zhenhua Wang, Yunkai Li, *Yaoze Liu*, Tianzhi Wang. 2015. Nitrogen and phosphate adsorption on biofilms in reclaimed water. *Environmental Earth Sciences*. DOI: 10.1007/s12665-015-4053-z
30. Yiting Pei, Yunkai Li, *Yaoze Liu*, Bo Zhou, Ze Shi, Yinguang Jiang. 2014. Eight emitters clogging characteristics and its suitability under on-site reclaimed water drip irrigation. *Irrigation Science*. DOI: 10.1007/s00271-013-0420-2
31. Bo Zhou, Yunkai Li, *Yaoze Liu*, Yiting Pei, Yinguang Jiang, Honglu Liu. 2014. Effects of flow path depth on emitter clogging and surface topographical characteristics of biofilms. *Irrigation and Drainage*. DOI: 10.1002/ird.1792
32. *Yaoze Liu*, Yunkai Li, Bo Zhou, Yinguang Jiang, Yiting Pei, Ze Shi (The first three authors equally contributed to this paper). 2013. Preliminary surface topographical characteristics of biofilms attached on drip irrigation emitters using reclaimed water. *Irrigation Science*. DOI: 10.1007/s00271-012-0329-1
33. Bo Zhou, Yunkai Li, Yiting Pei, *Yaoze Liu*, Zhijing Zhang, Yinguang Jiang. 2013. Quantitative relationship between biofilms components and emitter clogging under reclaimed water drip irrigation. *Irrigation Science*. DOI: 10.1007/s00271-013-0402-4
34. Dan Wu, Yunkai Li, Haisheng Liu, Peiling Yang, Haosu Sun, *Yaoze Liu*. 2013. Simulation of the flow characteristics of a drip irrigation emitter with large eddy methods. *Mathematical and Computer Modelling*. DOI: 10.1016/j.mcm.2011.10.074
35. *Yaoze Liu*, Yunkai Li, Guibing Li, Tingwu Xu, Haisheng Liu, Shumei Ren, Dazhuang Yan, Peiling Yang (The first four authors equally contributed to this paper). 2012. Surface topographic characteristics of suspended particulates in reclaimed wastewater and effects on clogging in labyrinth drip irrigation emitters. *Irrigation Science*. DOI: 10.1007/s00271-010-0257-x
36. Guibing Li, Yunkai Li, Tingwu Xu, *Yaoze Liu*, Hai Jin, Peiling Yang, Dazhuang Yan, Shumei Ren. 2012. Effects of average velocity on the growth and surface topography of biofilms attached to the reclaimed wastewater drip irrigation system laterals. *Irrigation Science*. DOI: 10.1007/s00271-011-0266-4
37. Lingyan Wang, Yunkai Li, Hua Zheng, Tingwu Xu, Zhiyun Ouyang, Zhanfeng Wang, Zhiheng Ji, *Yaoze Liu*. 2012. Evaluating the effects of climate changes and LUCC on the hydrological processes using Soil and Water Assessment Tool models in Wangkuai Reservoir watershed in China. *Sensor Letters*. DOI: 10.1166/sl.2012.1853
38. Yanzheng Liu, Guanghui Teng, Bo Zhou, Feipeng Xu, *Yaoze Liu*, Yunkai Li. 2012. Analysis on the characteristics of temperature environment and optimal sensor placement in roof solar greenhouse using Computational Fluid Dynamics simulation methods. *Sensor Letters*. DOI: 10.1166/sl.2012.1854
39. Wei Zhao, Yunkai Li, Chunfa Zhou, *Yaoze Liu*, Jun Du, Peiling Yang, Keqiang Zhang, Feng Wang, Zhiping Huang. 2012. HYDRUS-CLIMGEN coupling model and its applications in analyzing nitrogen leaching under long-term piggy wastewater irrigation. *Sensor Letters*. DOI: 10.1166/sl.2012.1884
40. Shaoqing Du, Wenjie Zeng, Ze Shi, *Yaoze Liu*, Yunkai Li, Fudong Gao. 2011. Effects of working pressure on hydraulic performances of labyrinth path emitters. *Transactions of the Chinese Society of Agricultural Engineering*. DOI: 10.3969/j.issn.1002-6819.2011.z2.012

41. Yanzheng Liu, Guanghui Teng, ***Yaoze Liu***, Tingwu Xu, Youquan Jiao, Chunting Li, Yan Li, Xiangjun Wang. 2010. Comprehensive simulation for microclimate environment with Computational Fluid Dynamics methods and its application for optimal sensor placement in small-scale greenhouse. *Sensor Letters*. DOI: 10.1166/sl.2010.1228

## **SEMINARS AND INVITED PRESENTATIONS**

1. ***Yaoze Liu***. Cost-effective strategies for agricultural conservation practice implementation at watershed scales. Department of Civil, Structural and Environmental Engineering, University at Buffalo, September 4, 2020, Virtual Event.
2. ***Yaoze Liu***. The long-term effectiveness of best management practices in improving hydrology and water quality: needs, opportunities, and a modeling framework. 2020 American Society of Agricultural and Biological Engineers Annual International Meeting, July 13-15, 2020, Virtual Event.
3. ***Yaoze Liu***. Theory and application of NRCS curve number method. Guest Lecture for class ENVE 4310 Applied Hydrology and Hydraulics. March 25, 2019, Rensselaer Polytechnic Institute, Troy, New York.
4. ***Yaoze Liu***. Optimal selection and placement of urban and agricultural best management practices to address harmful algal blooms problem in Lake Erie: Optimization tool development and application. April 16, 2018, University at Albany, Albany, New York.
5. ***Yaoze Liu***, Bernard A. Engel, Paris D. Collingsworth, Bryan C. Pijanowski. Optimal implementation of green infrastructure practices to reduce adverse impacts of land use and climate change on hydrology and water quality: Case study in Spy Run Creek watershed, Indiana. Tipping Points community and partnership perspectives presentation. April 19-20, 2017, Purdue University, West Lafayette, Indiana.
6. ***Yaoze Liu***, Bernard A. Engel. Optimal selection and placement of green infrastructure practices In Spy run creek watershed: Ongoing work. Tipping Points and Indicators Collaborative Retreat. November 10-11, 2016, Ann Arbor, Michigan.
7. ***Yaoze Liu***, Bernard A. Engel. Optimal selection and placement of BMPs and LID practices at the watershed scale: Previous and current work. Tipping Points and Indicators Program Advisory Meeting, August 5, 2016, Fort Wayne, Indiana.
8. ***Yaoze Liu***, Sisi Li, Carlington W. Wallace, Indrajeet Chaubey, Dennis C. Flanagan, Lawrence O. Theller, Bernard A. Engel. Comparison of computer models for estimating hydrology and water quality in an agricultural watershed. Great Lakes Sedimentation Workshop, June 22-23, 2016, Ann Arbor, Michigan.
9. ***Yaoze Liu***, Bernard A. Engel, Raj Cibin, Vincent F. Bralts, Indrajeet Chaubey, Lawrence O. Theller, Bryan C. Pijanowski. Optimal selection and placement of BMPs and LID practices at the watershed scale: Tool development and applications. *Water, Complexity & Feedbacks*, March 25, 2016, Purdue University, West Lafayette, Indiana.

## **ACADEMIC CONFERENCE PRESENTATIONS**

1. ***Yaoze Liu***, Siyu Li. Evaluating the cost-effectiveness of nutrient management strategies in an agricultural watershed. 2021 American Geophysical Union Fall Meeting, December 13-17, 2021, Virtual Event.

2. **Yaoze Liu**, Siyu Li. Cost-effective conservation practice implementation strategies to reduce excess nutrient loadings in an agricultural watershed. 2021 American Society of Agricultural and Biological Engineers Annual International Meeting, July 12-16, 2021, Virtual Event.
3. Siyu Li, **Yaoze Liu**. Improvement of simulating sub-daily hydrological impacts of rainwater harvesting for landscape irrigation with rain barrels and cisterns in the SWAT model. 2021 American Society of Agricultural and Biological Engineers Annual International Meeting, July 12-16, 2021, Virtual Event.
4. **Yaoze Liu**, Siyu Li. Cost-effective conservation practice implementation strategies in an agricultural watershed. 2020 American Geophysical Union Fall Meeting, December 1-17, 2020, Virtual Event.
5. Siyu Li, **Yaoze Liu**. Rainwater harvesting with rain barrels and cisterns for sustainable urban stormwater management. 2020 American Geophysical Union Fall Meeting, December 1-17, 2020, Virtual Event.
6. Siyu Li, **Yaoze Liu**. Evaluating the effectiveness of rain barrels and cisterns in reducing urban stormwater runoff quantity using the Soil and Water Assessment Tool. 2020 University at Albany's Annual Student Research Conference, April 28, 2020, Albany, New York.
7. Siyu Li, **Yaoze Liu**. Evaluating the effectiveness of low impact development practices in reducing urban stormwater runoff quantity using the Soil and Water Assessment Tool. 2019 American Geophysical Union Fall Meeting, December 9-13, 2019, San Francisco, California.
8. **Yaoze Liu**, Siyu Li. Modeling approaches and experimental methods to study green infrastructure practices: A review. 2019 American Geophysical Union Fall Meeting, December 9-13, 2019, San Francisco, California.
9. Jingqiu Chen, **Yaoze Liu**, Bernard A. Engel, Margaret W. Gitau. A Framework for Land Acquisition Strategy of Best Management Practices for Hydrology and Water Quality with a Rainfall-Runoff Model: Case Study in Michigan City, Indiana. 2019 American Geophysical Union Fall Meeting, December 9-13, 2019, San Francisco, California.
10. Siyu Li, **Yaoze Liu**. Evaluating the impacts of rain barrels and cisterns on urban stormwater runoff quantity using the Soil and Water Assessment Tool. 2019 American Society of Agricultural and Biological Engineers Annual International Meeting, July 7-10, 2019, Boston, MA.
11. **Yaoze Liu**, Tian Guo, Ruoyu Wang, Bernard A. Engel, Dennis C. Flanagan, Siyu Li, Bryan C. Pijanowski, Paris D. Collingsworth, John G. Lee, Carlington W. Wallace. A SWAT-based optimization tool for obtaining cost-effective strategies for agricultural conservation practice implementation at watershed scales. 2018 American Geophysical Union Fall Meeting, December 10-14, 2018, Washington DC.
12. Jingqiu Chen, **Yaoze Liu**, Margaret W. Gitau, Bernard A. Engel, Dennis C. Flanagan, Jonathan M. Harbor. Evaluation of the Effectiveness of Green Infrastructure on Hydrology and Water Quality in a Combined Sewer Overflow Community. 2018 American Geophysical Union Fall Meeting, Washington DC.
13. **Yaoze Liu**, Tian Guo, Ruoyu Wang, Bernard A. Engel, Dennis C. Flanagan, Bryan C. Pijanowski, Paris D. Collingsworth, John G. Lee, Carlington W. Wallace. An optimization tool for obtaining cost-effective strategies for implementing agricultural conservation practices at watershed scales. 2018 American Society of Agricultural and Biological Engineers Annual International Meeting, July 31-August 1, 2018, Detroit, Michigan.

14. **Yaoze Liu**, Bernard A. Engel, Paris D. Collingsworth, Bryan C. Pijanowski. Optimal implementation of best management practices to improve agricultural hydrology and water quality. 2017 American Geophysical Union Fall Meeting. December 11-15, 2017, New Orleans, Louisiana.
15. **Yaoze Liu**, Bernard A. Engel, Paris D. Collingsworth, Bryan C. Pijanowski. Optimal implementation of stormwater management practices to improve hydrology and water quality. 2017 American Society of Agricultural and Biological Engineers Annual International Meeting, July 16-19, 2017, Spokane, Washington.
16. **Yaoze Liu**, Paris D. Collingsworth, Bryan C. Pijanowski, Bernard A. Engel. Optimal implementation of green infrastructure practices to reduce adverse impacts of urban areas on hydrology and water quality. 2016 American Geophysical Union Fall Meeting. December 12-16, 2016, San Francisco, California.
17. **Yaoze Liu**, Sisi Li, Carlington W. Wallace, Indrajeet Chaubey, Dennis C. Flanagan, Lawrence O. Theller, Bernard A. Engel. Comparison of computer models for estimating hydrology and water quality in an agricultural watershed. 2016 American Society of Agricultural and Biological Engineers Annual International Meeting, July 17-20, 2016, Orlando, Florida.
18. **Yaoze Liu**, Bernard A. Engel. Representing long-term effectiveness of best management practices. 2016 American Society of Agricultural and Biological Engineers Annual International Meeting, July 17-20, 2016, Orlando, Florida.
19. **Yaoze Liu**, Lawrence O. Theller, Bryan C. Pijanowski, Bernard A. Engel. Optimal implementation of green infrastructure in Trail Creek Watershed using L-THIA-LID 2.1 model. 2015 U.S.-China Ecopartnership for Environmental Sustainability, October 22-24, 2015, West Lafayette, Indiana.
20. **Yaoze Liu**, Raj Cibin, Vincent F. Bralts, Indrajeet Chaubey, Laura, C. Bowling, Bernard A. Engel. Optimal selection and placement of BMPs and LID practices with L-THIA-LID 2.1 model. 2015 American Society of Agricultural and Biological Engineers Annual International Meeting, July 26-29, 2015, New Orleans, Louisiana.
21. **Yaoze Liu**, Vincent F. Bralts, and Bernard A. Engel. Evaluating effectiveness of BMPs and LID practices on hydrology and water quality at watershed scales with the L-THIA-LID 2.1 model. 2014 American Society of Agricultural and Biological Engineers Annual International Meeting, July 13-16, 2014, Montreal, QC, Canada.
22. **Yaoze Liu**, Laurent M. Ahiablame, Vincent F. Bralts, and Bernard A. Engel. Enhancing a rainfall-runoff model to assess the impacts of BMPs and LID practices on storm runoff. 2013 the annual joint conference of the US-China Ecopartnership for Environmental Sustainability, November 18-19, 2013, Gatlinburg, Tennessee.
23. **Yaoze Liu**, Laurent M. Ahiablame, Vincent F. Bralts, and Bernard A. Engel. Enhancing a rainfall-runoff model to assess the impacts of BMPs and LID practices on storm runoff. 2013 American Society of Agricultural and Biological Engineers Annual International Meeting, July 21-24, 2013, Kansas City, Missouri.
24. **Yaoze Liu**, Laurent M. Ahiablame, Vincent F. Bralts, and Bernard A. Engel. Evaluation of Best Management Practices (BMPs) and Low Impact Development (LID) Practices with Improved L-THIA-LID Model. 34th Annual Indiana Water Resources Association Symposium, June 19-21, 2013, Muncie, Indiana.

## **PROFESSIONAL ASSOCIATION MEMBERSHIPS**

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- Association of Environmental Engineering and Science Professors (AEESP)
- American Geophysical Union (AGU)
- American Water Resources Association (AWRA)
- American Society of Agricultural and Biological Engineers (ASABE)
- Indiana Water Resources Association (IWRA)

## **JOURNAL REVIEWER**

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- Applied Engineering in Agriculture
- Environmental Earth Sciences
- Environmental Monitoring and Assessment
- Environmental Research
- Hydrology
- Journal of American Water Resources Association
- Journal of Environmental Management
- Journal of Environmental Planning and Management
- Journal of Great Lakes Research
- Journal of Hydroinformatics
- Journal of Hydrology
- Science of the Total Environment
- Stochastic Environmental Research and Risk Assessment
- Theoretical and Applied Climatology
- Urban Water Journal
- Water
- Water Resources Research

## **PROPOSAL REVIEWER**

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- National Science Foundation
- United States Department of Agriculture
- United States Geological Survey
- National Water Resources Research Institutes
- National Oceanic and Atmospheric Administration

## **AWARDS**

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- PhD Conference Travel Grant, Purdue University 2014
- Scientific Excellence Award (Master), China Agricultural University 2010
- Award for volunteer performing excellently within the 2008 Beijing Olympic Games 2008
- Prize for excellent students, China Agricultural University 2006, 2007, 2008
- Merit Student, China Agricultural University 2007



## **TEACHING**

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- ESE 351 Fluid Mechanics. Spring 2022
- ESE 451 Water Resources Engineering. Fall 2021
- ESE 451 Water Resources Engineering. Spring 2021
- ESE 351 Fluid Mechanics. Fall 2020
- ESE 201 Statics. Spring 2020, new course developed
- ESE 552 Nonpoint Source Pollution Engineering. Fall 2019, new course developed
- ESE 451/551 Water Resources Engineering. Spring 2019, new course developed
- ESE 351 Fluid Mechanics. Fall 2018, new course developed
- Teaching Assistant for Soil and Water Resource Engineering, Irrigation Technology Tools, Surveying, and Sophomore Seminar