

Yongping Yuan, Hydrologist, in EPA's National Exposure Research Laboratory

Systems Exposure Division

[Mailing Address](#)

yuan.yongping@epa.gov

Area of Expertise: I am a research hydrologist with the US Environmental Protection Agency (EPA). I have been working on projects related to watershed hydrology and water quality processes with an emphasis on developing and using GIS and watershed modeling tools to improve understanding of terrestrial and aquatic water quality processes, impact of land use and climate change on water quantity and quality, impact of conservation practices for nonpoint source pollution, and sustainability assessment of built environments.

Select Publications:

Yuan, Y., Y. Jiang, E. V. Taguas, E. G. Mbonimpa, W. Hu. 2015. Sediment loss and its cause in Puerto Rico. SOILS 1:

Yuan, Y. and L. Chiang. 2015. Sensitivity analysis of SWAT nitrogen simulations with and without in-stream processes. Archives of Agronomy and Soil Science 61(7). DOI:10.1080/03650340.2014.965694.

Yuan, Y., Y. Khare, X. Wang, P. B. Parajuli, I. Kisekka, and S. Finsterle. 2015. Hydrologic and Water Quality Models: Sensitivity. Transactions of the ASABE

Mbonimpa, E. G., Y. Yuan, M. S. Nash, and M. H. Mehaffey. 2014. Sediment and total phosphorous contributors in Rock River watershed. Journal of Environmental Management 133: 214-221

Momm, H. G., R. L. Bingner, Y. Yuan, M. A. Locke, and R. R. Wells. 2014. Spatial Characterization of Riparian Buffer Effects on Sediment Loads from Watershed Systems. Journal of Environmental Quality 43(5): 1736-1753. doi:10.2134/jeq2013.10.0413

Chiang, L., Y. Yuan, M. Mehaffey, M. Jackson, and I. Chaubey. 2014. Assessing SWAT's performance in the Kaskaskia River watershed as influenced by the number of calibration stations used. Hydrological Processes 28(3): 676-687. DOI: 10.1002/hyp.9589

Yuan, Y., W. Nie, S. McCutcheon, E. V. Taguas. 2014. Initial Abstraction and Curve Numbers in a Semiarid Watershed in Southeastern Arizona. Hydrological Processes 28(3): 774-783. DOI: 10.1002/hyp.9592

Yuan, Y., M. A. Locke, R. L. Bingner, and R. A. Rebich. 2013. Phosphorus Losses from Agricultural Watersheds in the Mississippi Delta. Journal of Environmental Management 115: 14-20.

View more research publications by [Yongping Yuan](#).

Education:

- Ph.D. in Agricultural Engineering, University of Illinois at Urbana-Champaign, 2000
- M. S. in Water Conservation and Civil Engineering, Beijing Agricultural Engineering University, China, 1994
- B.A. in Water Conservation and Civil Engineering, Beijing Agricultural Engineering University, China, 1989
- Training in Irrigation and Water Management, Institute of Soil and Water, Agricultural Research Organization, Volcani Center, Israel, 1994

Professional Experience:

- Hydrologist, USEPA, ORD, NERL-ESD, Las Vegas, NV 2009 – Present
- Agricultural Engineer, USDA-ARS-NSL, Oxford, MS 2000-2008
- Adjunct Faculty, NCCHE, University of MS, Oxford, MS 2000-2008
- Research Assistant, Agricultural Engineering, UIUC, Urbana, IL 1996-2000
- Assistant Professor, Beijing Agricultural Engineering University, Beijing, China 1994 – 1995
- Lecturer, Beijing Agricultural Engineering University, Beijing, China 1989 – 1994

Honors and Awards:

- Bronze medal for commendable service (Insight, Innovation, Impact) from EPA-ORD, 2015.
- Bronze medal for commendable service (Insight, Innovation, Impact) from EPA-ORD, 2014.
- Scientific and Technological Achievement Award (STAR) Honorable Mention for “Providing best drainage management practices to reduce nitrogen losses from agricultural fields for water quality improvement”, 2013
- Regional Applied Research Effort: “Sediment Load Estimation of the Tijuana River Watershed under Existing Conditions and the Future Alternative Scenarios for Best Management Practice Implementation” was awarded by EPA – Office of Science and Policy. Award amount: \$100,000, FY2013.
- Regional Applied Research Effort: “Nutrients characterization of digester effluents” was awarded by EPA – Office of Science and Policy. Award amount: \$100,000, FY2013.
- Regional Applied Research Effort: “Achieving Long-Term Protection of Water Quality of Grand Lake St. Marys through the Control of Phosphorus Input from Agricultural Drainage” was awarded by EPA – Office of Science and Policy. Award amount: \$200,000, FY2011.