



# Xiaodong Zhang, Ph.D., P.E., P.Eng.

B.Eng., M.Eng. (Tsinghua Univ., China), Ph.D. (Univ. of Regina, Canada)

Dr. Zhang is invited to serve as a Guest Editor, Editorial Board Member, Co-Convener, and Organizing and Scientific Committee Member for many peer-reviewed international journals and conferences. He was an International Consultant for the United Nations Development Programme (UNDP), a Project Coordinator for CWN (Canadian Water Network), and a Sessional Lecturer at the University of Regina, Canada. He is also a reviewer for a number of international journals and conferences. He has produced a number of publications in peer-referred international journals and conferences, including *Water Resources Research*, *Water Research*, *Journal of Hazardous Materials*, *Journal of Hydrology*, *Journal of Water Resources Planning and Management -ASCE*, *Advances in Water Resources*, *Science of the Total Environment*, *Environmental Modelling & Software*, *Energy*, *European Journal of Operational Research*, etc. He was involved in various research projects supported by governmental, international, and industrial organizations, including DOE, NSERC, IDRC, PTRC, UNDP, CIDA, EC, CWN, SE, CT, NRC, CNPC, TransGas.

## Research Interests and Expertise

Groundwater and soil remediation  
Water resources and quality management  
Climate change impacts and adaptation planning  
Risk assessment  
Carbon capture and sequestration  
Shale gas development  
Water-energy nexus  
Waste management  
Energy and environmental systems engineering  
Expert systems and decision support systems

## Awards and Honors

- BEG Career Development Publication Award (2012)
- BEG Author Achievement Award (2012)
- Chinese Government Award for Outstanding Students Abroad (2010)
- Nexen Graduate Fellowship in Sustainable Communities (2007, 2010)
- IDRC ECOPOLIS Graduate Research and Design Awards (2008)
- BMO Financial Group Fellowship for Rural and Northern Studies (2008)
- PARC Graduate Scholarship (2008)
- Graduate Student Scholarly Research (GSSR) Award (2007, 2008)
- Edgar A. Wahn Scholarship (2007, 2008)
- GSA Graduate Student Travel Award (2007)
- Graduate Student Travel Award (2006, 2007)

## Professional Registrations

Licensed Professional Engineer (P.E.) in Texas, USA

Licensed Professional Engineer (P.Eng.) in Saskatchewan, Canada

Microsoft Certified Database Administrator (MCDBA), Microsoft

## Selected Publications

- Zhang, X.D., and Huang, G.H. (2013). Optimization of environmental management strategies through a dynamic stochastic possibilistic multiobjective program. *Journal of Hazardous Materials*, 246-247: 257-266.
- Zhang, H., Huang, G.H., Wang, D.L., Zhang, X.D., Li, G.C., An, C.J., Cui, Z., Liao, R.F., and Nie, X.H. (2012). An integrated multi-level watershed-reservoir modeling system for examining hydrological and biogeochemical processes in small prairie watersheds. *Water Research*, 46: 1207-1224.
- Zhang, X.D., and Huang, G.H. (2011). Assessment of BTEX-induced health risk under multiple uncertainties at a petroleum-contaminated site: An integrated fuzzy stochastic approach. *Water Resources Research*, 47: w12533, doi:10.1029/2011WR010682.
- Zhang, X.D., Huang, G.H., and Nie, X.H. (2011). A possibilistic stochastic water management model for agricultural nonpoint source pollution. *Journal of Water Resources Planning and Management (ASCE)*, 137(1): 101-112.
- Huang, G.H., Sun, W., Nie, X.H., Qin, X.S., and Zhang, X.D. (2010). Development of a decision-support system for rural eco-environmental management in Yongxin County, Jiangxi Province, China. *Environmental Modelling & Software*, 25(1), 24-42.
- Zhang, X.D., Huang, G.H., and Nie, X.H. (2009). Robust stochastic fuzzy possibilistic programming for environmental decision making under uncertainty. *Science of the Total Environment*, 408(2), 192-201.