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EDUCATION

2003 Nankai University, China	Ph.D. Environmental Chemistry
2000 Nankai University, China	M.S. Environmental Biology and Ecotoxicology
1997 Nankai University, China	B.Sc. Environmental Biology

PROFESSIONAL POSITIONS

2011 – Present Analytical Chemist, Environmental Sciences Division, Oak Ridge National Laboratory. Perform laboratory analysis of environmental and biological samples for mercury/methylmercury. Develop and improve analytical protocols for metals and mercury/methylmercury analyses. Operate, maintain, and troubleshoot instrumentation; laboratory oversight and safe operations; and train and oversee other users of the mercury analytical equipment. Write technical documents and journal papers.

2008 – 2011 Research Associate, Florida International University. Developed and improve analytical protocols for mercury/methylmercury and metals analysis. Performed laboratory analysis of environmental and biological samples for metals, arsenic (including organoarsenicals) and mercury/methylmercury. Operated, maintain, and troubleshoot instrumentation. Conducted research to investigate environmental chemistry of toxic metals.

2005 – 2008 Research Associate, Tropical Research and Education Center, Institute of Food and Agricultural Sciences, University of Florida. Investigated nutrient cycling and water quality change under prescribed fire in the Everglades. Investigated water quality status and trend in the Indian River Lagoon by analyzing and interpreting long-term water quality data; oversaw the operation and maintenance of lab instruments for water and soil analysis.

2000 – 2004 Research Assistant/Associate, College of Environmental Science and Engineering, Nankai University, China. Studied toxicity of pesticides on fish brain acetylcholinesterase (AChE) activity and developed biomonitoring tools for pesticides using AChE activity. Investigated production of cyanotoxins during harmful algal blooms and relevant environmental controls. Studied environmental chemistry behavior of cyanotoxins and pesticides.

PROFESSIONAL SERVICE, AFFILIATIONS, AND HONORS

Reviewer: Water Research, Water Resources Research, Water Resources Management, Journal of Soils and Sediments.

Instructor: Workshop of environmental analysis in agriculture, Tropical Research and Education Center, Institute of Food and Agricultural Sciences, University of Florida.

Honors: Research Grant for Doctoral Candidates and Young Academics and Scientists awarded by German Academic Exchange Service (DAAD), 2004. First-Grade Graduate Scholarship of Nankai University, China, 2001-2002. Second-Grade Graduate Scholarship of Nankai University, China, 2000-2001.

SELECT RECENT PUBLICATIONS

- Qian, Y., S. Miao, B. Gu, and Y.C. Li. 2009. Estimation of post-fire nutrient release from plant ash in the Florida Everglades. *J. Environ. Qual.* 38:1810-1820.
- Qian, Y., S. Miao, B. Gu, and Y.C. Li. 2009. Effects of burn temperature on ash nutrient forms and availability from cattail (*Typha domingensis*) and sawgrass (*Cladium jamaicense*) in the Florida Everglades. *J. Environ. Qual.* 38:451-464.
- Qian, Y., K.W. Migliaccio, Y. Wan, and Y. Li. 2007. Trend analysis of nutrient concentrations and loads in selected canals of the southern Indian River Lagoon, Florida. *Water, Air, and Soil Poll.* 186:195-208. doi: 10.1007/s11270-007-9477-y.
- Qian, Y., K.W. Migliaccio, Y. Wan, and Y. Li. 2007. Surface water quality evaluation using multivariate methods and a new water quality index in the Indian River Lagoon, Florida. *Water Resour. Res.* 43:W08405, doi: 10.1029/2006WR005716.
- Qian, Y., K.W. Migliaccio, Y. Wan, Y.C. Li, and D. Chin. 2007. Seasonality of selected surface water constituents in the Indian River Lagoon, Florida. *J. Environ. Qual.* 36:416-425.
- Qian, Y., S. Dai, G. Liu, W. Ge, and Y. Zhuang.. 2003. Effect of lanthanum nitrate on growth characteristics of *Microcystis aeruginosa*. *China Environ. Sci.* 23:7-11.
- Qian, Y., G. Liu, and S. Dai. 2002. Terrestrial invertebrate biomarkers used for soil ecotoxicological risk assessment. *Soil and Environ. Sci.* (in Chinese) 11:70-74.
- Qian, Y., S. Dai, and G. Liu. 2002. Development of studies on microcystin in eutrophicated fresh water body. *Techniques and Equipment for Environmental Pollution Control.* 3:13-17.
- Qian, Y., L. Zhu, G. Liu, and S. Dai. 2002. Inhibition of four pesticides on acetylcholinesterase (AChE) activity of carp *Cyprinus carpio* Linnaeus brain. *Shanghai Environ. Sci.* (network version). No. 5.
- Liu, G., S. Dai, Y. Wang, Y. Qian, and Y. Sun. 2002. Determination of aldicarb in environmental sample by capillary GC-FPD. *Environ. Chem.* 21:17-18.
- Dai, S., G. Liu, Y. Qian, and X. Cheng. 2001. The sorption behavior of complex pollution system composed of aldicarb and surfactant-SDBS. *Water Res.* 35:2286-2290.
- Zhu, L., Y. Qian, and G. Liu. 2001. Cytochrome P450 enzyme family and its application to toxicology. *Shanghai Environ. Sci.* 20:88-91.
- Dai, S., G. Liu, and Y. Qian. 2001. Development of research on soil multimedia environmental pollution. *Soil and Environ. Sci.* 10:1-5.
- Qian, Y., L. Zhu, and G. Liu. 2000. The joint toxic effect of pesticide mixtures on acetylcholinesterase (AChE) in carp (*Cyprinus carpio* Linnaeus) brain. *Tech. Equip. Environ. Poll. Control* 1:427-432.
- Liu, G., S. Dai, and Y. Qian. 2000. Study on irreversible sorption behavior of pesticide aldicarb in soil. *Acta Scientiae Circumstantiae* 20:597-602.

POSTDOCTORAL ADVISORS: Cai, Y. (Florida International University), Li, Y.C. (University of Florida)