

Yun Qian, Ph.D.

Instructional Laboratory Coordinator

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PROFESSIONAL EXPERIENCES

2014-present

Instructional Laboratory Coordinator, Biomedical Engineering Department, Florida International University

In charge of maintenance of all BME teaching laboratories;
Overseeing the laboratories and assuring laboratory regulatory compliance;
Developing standard operating procedures and laboratory manuals;
Providing technical support in instructional lab projects.

2011 – 2013

Analytical Chemist, Environmental Sciences Division, Oak Ridge National Laboratory

Developed SOPs, quality manuals, and safety manuals for the analytical chemistry laboratory and led the laboratory to excellent performance in interlaboratory-comparison exercises;
Responsible for quality assurance and quality control (QA/QC), including data review, validation, audit, and safety training, in compliance with regulations and accreditation standards;
Managed routine laboratory operation, including coordinating projects, operating and troubleshooting instrumentation (e.g., ICP-MS, AFS, UV, GC-AFS), and training new users;
Conducted research and development and published scientific and technical publications.

2008 – 2011

Chief Chemist, Department of Chemistry & Biochemistry, Florida International University

Led the development of Bioinorganic and Environmental Analytical Facility for accreditation by Florida Department of Health in compliance with NELAC standards;
Developed SOPs and quality manuals for inorganic analysis, conducted data review, analysis, and validation, and performed QA/QC audit;
Directed routine laboratory operation, maintained a variety of instruments (e.g., ICP-MS, AFS, AAS, HPLC, and DLS NanoSizer), and developed new methods for the needs of research and development, e.g., HPLC-MS and HPLC-UV-ICP-MS methods for speciation analysis.

2005 – 2008

Research Associate, Tropical Research and Education Center, University of Florida

Led the projects studying water quality and water chemistry in important water bodies;
Successfully completed the projects by performing data analysis and data mining using an array of statistical techniques and publishing scientific and technical documents;

Oversaw operation and maintenance of laboratory instrumentation (e.g., elemental analyzer, UV, AAS) and performed sample analysis.

02/2004 – 05/2004

Visiting Scholar, Institute of Ecological Chemistry, National Research Center for Environment and Health (GSF), Germany

Analyzed residue pesticides and pharmaceuticals in food, fruits, and vegetables using LC-MS.

2000 – 2004

Research Assistant, Nankai University, China

Developed methods for isolation and detection of cyanotoxins and residue pesticides in environmental and biological matrices using HPLC and GC;

Developed bioanalytical techniques for pesticides using enzymes (e.g., acetylcholinesterase).

EDUCATION

PhD, Analytical/Environmental Chemistry, Nankai University, China, 2003

M.S., Environmental Biology and Toxicology, Nankai University, China, 2000

B. Sc., Environmental Biology, Nankai University, China, 1997

PROFESSIONAL SERVICES and MEMBERSHIPS

Reviewer, *Water Resources Management; Water Resources Research; Water Research; 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 AND FELLOWSHIPS

2004.02-2004.05

Research Grant for Young Academics and Scientists awarded by German Academic Exchange Service (DAAD)

2001-2002

First-class Graduate Scholarship of Nankai University, China

2000-2001

Second-class Graduate Scholarship of Nankai University, China

SELECTED PUBLICATIONS AND TECHNICAL DOCUMENTS

1. Parks, J. M., A. Johs, M. Podar, R. Bridou, R. A. Hurt, S. D. Smith, S. J. Tomanicek, **Y. Qian**, S. D. Brown, C. C. Brandt, A. V. Palumbo, J. C. Smith, J. D. Wall, D. A. Elias, L. Liang. 2013. The Genetic Basis for Bacterial Mercury Methylation. **Science** 339, 1332-1335.
2. **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.
3. **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.
4. **Y. Qian**, Yong Cai. Quality Assurance Plan (for Metal Analysis) of Southeast Environmental Research Center Mercury Laboratory (SERCMLAB). 2009, pp 76.
5. **Y. Qian**, Yong Cai. Standard Operating Procedure (SERCMLAB-SOP-008-09) for Determination of Trace Metals in Solid Samples. 2009, pp 22.