

Mengyang Zhang

Cell: (+86) 130 69363100 Email: mengyang14@tsinghua.org.cn

Education

Tsinghua University, Beijing, China 9/2014-7/2017

Master of Environmental Engineering

GPA: 3.5/4.0

Thesis: "The Determination and Safety Control Technology of Emerging Trace Pollutants in Drinking Water of Pearl River Delta of China".

Hunan University, Changsha, China 9/2010-6/2014

Bachelor of Civil Engineering

GPA: 3.69/4.0

Senior Design Project: "Preliminary Design of Water Supply Project in City C".

Research Experience

1. Development of practical SPE-LC-MS/MS methods for the detection of emerging trace contaminants in drinking water. Shenzhen, China 9/2015-12/2015

- Firstly developed three methods for the detection of 37 PPCPs, 8 EDCs and NDMA respectively in our lab all by myself, including the pre-treatment. (*Responsible for the whole project*)

2. Emerging trace contaminants in drinking water systems in the Pearl river delta in China: occurrence and risk to human health. Shenzhen, China 1/2016-7/2016

- Investigated the fate of 37 PPCPs, 8 EDCs and NDMA in three drinking-water supply systems, which contain water supply, water treatment, water distribution and bottled water. Assessed and prioritized the potential risks to human health. (*Responsible for the whole project: sampling, pretreatment and analysis*)

3. Research on NDMA removal in drinking water treatment. Shenzhen, China. 3/2016-6/2016

- Lab-scale experiment. Tested a new method for NDMA removal by the integrated process of *in-situ* ozonation and ceramic UF membrane and compared the removal efficiency with that by ozone alone. (*Responsible for the whole experimental design, operation and analysis*)

4. Research on PPCPs removal in drinking water treatment. Shenzhen, China. 8/2016-9/2016

- Lab-scale experiment. Compared the removal efficiency of PPCPs by the integrated process of *in-situ* ozonation and ceramic UF membrane with that by ozonation alone and filtration alone at different operating conditions. (*Responsible for the whole experimental design, operation and analysis*)

5. Research on an integrated process of *in-situ* ozonation and ceramic UF membrane for advanced treatment of drinking water. Dongguan, China. 10/2016-1/2017

- Pilot-scale experiment. Investigated an integrated process including coagulation, ozonation, ceramic UF membrane and activated carbon filtration for the removal of emerging trace contaminants in drinking water. (*Responsible for the major part of experiment*)

Internship Experience

1. Guangdong Yuegang Water Supply Company, Shenzhen, China [R&D Management] 9/2015-7/2016

- Developing analytical methods for emerging trace contaminants
- Investigating the fate of emerging trace contaminants in drinking-water supply systems
- Project management and coordination

2. Shanghai Municipal Engineering Design Institute, Shanghai, China [Design Assistant] 1/2016-1/2016

- Assisting engineers with a reconstruction project about designing drinking water treatment plant

3. Hunan Academy of building Research, Changsha, China [Design Assistant] 11/2013-6/2014

- Compiling of the draft: “Comprehensive Preventing Planning of Drainage and Waterlogging in Linxiang”
4. Xinxiang Municipal Design Institute, Xinxiang, China [Design Assistant] 8/2013-8/2013
- Assisting engineers with the design of municipal drainage systems

Publications & Presentations

1. **Mengyang Zhang.** Emerging Contaminates in Drinking Water in The Peral River Delta in China: Occurrence and Risk Assessment to Human Health. To be submitted.
2. **Mengyang Zhang.** A SPE-UPLC-MS/MS Method for the Detection of NDMA in Drinking Water and Its Application. To be submitted.
3. **Mengyang Zhang,** Xiaojiang Fan, Xihui Zhang. Occurrence of NDMA in Drinking Waters of the Pearl River Delta, South China. National Conference on Advanced Treatment of Water Supply - 2016 Annual Meeting, November 12-14, 2016, Zhenjiang, China.
4. **Mengyang Zhang,** Zhenghua Zhang, Xiaojiang Fan, Xihui Zhang. An integrated process of in-situ ozonation and ceramic UF membrane for N-nitrosodimethylamine removal in drinking water treatment (poster). The 5th IWA Regional Conference on Membrane Technology, August 22-24, 2016, Kunming, China.

Awards

- Outstanding Graduates of Hunan Province (1%) 2014
- Outstanding Graduates of Hunan University (2%) 2014
- National Scholarship (2%), National Encouragement Scholarship (twice) (5%) 2011-2013
- Second-class of Integrated Scholarship 2016
- Third-class of Integrated Scholarship 2015
- Bronze Prize of the Best Paper Award (The National Water Technological Innovation Exhibition for College & University Students) 2015

Skills

- IELTS 6.5
- Plenty of experience for water quality analysis in labs
- Excellent operation skill on UPLC-MS/MS equipment
- Strong background in water and wastewater treatment process
- Professional on computer software such as Word, Excel, Power Point, Origin and Auto CAD.