

# Bingxue Zheng

305-613-7878; bingxue.zheng@me.com; 8300 SW 154<sup>TH</sup> Ave Apt 23, Miami, FL 33193

---

## Skills:

- Specializing in method development, sample collection and sample preparation for both analytical techniques and biological techniques
- Extensive hands-on skills on HPLC-MS, CE-MS, GC-MS, FTIR, TLC, wet chemistry and multi-step organic synthesis
- Highly motivated chemist, capable of independent working, multitasking, and interdisciplinary collaboration, identifying and solving technical problems, familiar with compliance requirements within GLP, SOP knowledge, safety and regulatory environment
- Proficient in using Microsoft office and Origin; Familiar with JMP and Matlab

## EXPERIENCE

**Graduate Research Associate:** August 2011 - Present, Florida International University, Miami, FL

- Independently and collaboratively designed and conducted experiments, and presented findings to team members and graduate committees
- Purified and characterized microcystin variants from algal blooms by SPE and HPLC
- Designed and executed novel approach to analyze cyanotoxins utilizing HPLC-MS/MS and CE-MS for real-time monitoring of drinking water and lake water quality
- Proficient in operating and troubleshooting of analytical instrumentations

**Research Internship:** April 2010 - August 2010, Xi'an Polytechnic University, Xi'an, China

- Performed multi-step organic synthesis on producing pharmaceutical products
- Utilized HPLC, FTIR, and GC-MS to characterize the products
- Optimized the reaction condition to maximize yields and efficiency

**Research Project:** June 2009 - August 2009, Northwest University, Xi'an, China

- Performed protein purification in accordance with the laboratory's protocols
- Conducted calibration, operation and maintenance of laboratory instrumentation (i.e., pH meter, HPLC, UV-vis, etc).

**Teaching assistant:** August 2011 - Present, Florida International University, Miami, FL

- Supervised lab activities and evaluated students for part of the final grade
- Demonstrated laboratory techniques
- Conducted tutoring sessions with students needing additional assistance

**Teaching assistant:** January 2009 - April 2011 Oklahoma Christian University, Edmond, OK

- Assisted students with performing experiments
- Provided timely feedback and grading responses to students

## EDUCATION

**M.S in Chemistry**, Florida International University, Miami, FL

August 2011 - Present

**B.S. in Chemistry**, Oklahoma Christian University, Edmond, OK

January 2007- April 2011

## ACADEMIC/ ACTIVITIES/AWARDS

**Bingxue Zheng** and John Berry. Development of a rapid detection and separation method for cyanotoxin. 7th Symposium on Harmful Algae in the U.S., 2013, Sarasota, FL

Volunteer at South Miami Baptism Hospital: September 2013 – June 2014

Who's Who: Recognized as outstanding merit as a student at Oklahoma Christian University, 2011

Outstanding International Scholarship: Oklahoma Christian University, 2008 – 2011