

Objective

To obtain a challenging job which includes working with others.

Education

Master of Science in Chemistry (GPA = 3.62), Fall 2016. The University of Memphis, Memphis, TN

Bachelor of Arts in Chemistry and Biology, Spring 2010. The College of Charleston, Charleston, SC

Experience

Laboratory Chemist

- Organic and organometallic synthesis and characterization (6+ years).

Academic Teaching Positions Held

- **Adjunct Professor:** Organic and General Chemistry lecturer (2 sections) and laboratory (3+ sections) instructor, Spring and Summer 2017. Trident Technical College, North Charleston, SC.
- **Teaching Assistant:** Organic Chemistry Laboratory Instructor (8 sections total) and General Chemistry Laboratory Instructor (5 sections total) 2011 – 2015. The University of Memphis, Memphis, TN.
- **Docent Instructor:** General Chemistry Laboratory Instructor (6 sections total) 2010 – 2011. The College of Charleston, Charleston, SC.

Spectroscopy

¹H NMR, ¹³C NMR, FTIR, UV-vis, GC-MS, and HPLC-MS analysis (5+ years).

Instrumentation

I was responsible for the maintenance of the following instruments while at the University of Memphis:

- JEOL 270 MHz NMR spectrometer, 2011 – 2014.
- Agilent 8453 UV-vis spectrometer, 2012 – 2016.
- Nicolet 380 FTIR spectrometer, 2012 – 2016.

Other Notable Positions and Skills

- **President of the Graduate Student Association**, The University of Memphis, Chemistry Department, Memphis, TN 2013 – 2014.
- Competent using Microsoft Word, Excel, and PowerPoint.

Publications

Ind. Eng. Chem. Res., **2015**, 54 (29), pp 7207–7211.

J. Chem. Crystallography., **2012**, 42 (9), pp 952–959.

Presentations

1. “Organomanganese Photochromic Systems: Linkage Isomerization and Cage Effects of Bifunctional Pyridine Ligands Substituted in the 2-Position: A Time-Resolved Infrared Spectroscopic Study.” Joint Southeastern/Southwest Regional Meeting, November 4-7, 2015, Memphis, TN (*National Meeting – ACS*).
2. “Development of Organometallic Photochromes with Nitro and Pyridine Ligands.” Midsouth Inorganic Chemists Association – 23rd Meeting, March 8, 2014, Arkansas State University (*Regional Meeting – MICA*).
3. “Ligand Substitution of Methyl Cymantrene with Organic Nitro Compounds: Spectroscopy and Photochemistry.” Midsouth Inorganic Chemists Association – 20th Meeting, October 20, 2012, The University of Memphis, Smith Hall (*Regional Meeting – MICA*).

References

1. **Tomoko Fujiwara**, PhD: *Professor*, The University of Memphis. 3744 Walker Ave., 409 Smith Chemistry, Memphis, TN 38152. *Phone*: (901) 678-5558 – *Email*: tfjiwara@memphis.edu
2. **Xuan Zhao**, PhD: *Associate Professor*, The University of Memphis. 3744 Walker Ave., 305 Smith Chemistry, Memphis, TN 38152. *Phone*: (901) 678-1423 – *Email*: xzhao1@memphis.edu
3. **Glenn Ivett**, MS: *Coordinator*, Trident Technical College, Main Campus, Bldg. 300, Rm. 335, North Charleston, SC 29423. *Phone*: (843) 574-6144 – *Email*: glenn.ivett@tridenttech.edu