

An Vu

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EDUCATION

B.S., Chemistry, University of the Incarnate Word, August 2012 – December 2015

- Honors Program
- GPA: 3.99

RESEARCH AND TEACHING EXPERIENCE

Undergraduate Research Assistant, University of the Incarnate Word, January 2014 – December 2015

- Advisor: Dr. Robert N. Garner
- Synthesized and characterized ruthenium(II) polypyridine complexes
- Analyzed the effects of adding electron withdrawing and electron donating substituents to a pyridine ligand
- Measured photophysical and photochemical properties including electronic absorption, phosphorescence, and photolysis

Welch Summer Research Program, University of the Incarnate Word, Summer 2014 and 2015

- Advisor: Dr. Robert N. Garner
- Five week, full-time research program
- Design, synthesis, and characterization of ruthenium (II) polypyridine complexes

Peer Assisted Study Sessions (PASS) Leader and Tutor, University of the Incarnate Word, January 2014 – December 2016

- Assisted students to improve knowledge and skill for various chemistry courses
- Facilitated collaborative learning review sessions three times a week
- Met with the faculty regularly to effectively plan sessions
- Provided reviews and study guides to help supplement students understanding of the concepts
- Offered personal tutoring and small group tutoring sessions to students

PUBLICATIONS

- Vu, A. T.; Santos, D. A.; Hale, J.G.; Garner, R.N. "Tuning the excited state properties of ruthenium(II) complexes with a 4-substituted pyridine ligand" *Inorg. Chim. Acta*, **2016**, *450*, 23.

PRESENTATIONS

- Tuning Excited State Properties of Ru(II) Complexes with a 4-substituted Pyridine Ligand An T. Vu, David Santos, Jasmen G. Hale, and Robert N. Garner, University of the Incarnate Word; NCUR 2016 Conference, Asheville, NC. (April 2016)
- Effects of a para-substituted pyridine on the Ground and Excited State Properties of new Ruthenium (II) polypyridine complexes Hale, Jasmen G., Vu, An T.; Garner, Robert N., University of the Incarnate Word; NOBCChE 2015 Conference, Orlando, FL. (September 2015)
- Synthesis and characterization of ground and excited state properties of a new ruthenium(II) polypyridine complex Vu, An T.; Hale, Jasmen G., Garner, Robert N., University of the Incarnate Word; 249th ACS National Meeting & Exposition, Denver, CO. (March 2015)
- Synthesis and Characterization of Ground and Excited State Properties of $[Ru(tpy)(bpy)(MeO-py)]^{2+}$ Vu, An T.; Garner, Robert N., University of the Incarnate Word; University of the Incarnate Word 8th Annual Research Week, San Antonio, TX. (February 2015)

HONORS AND AWARDS

UIW Dean's List (2013 – 2015)

UIW MSE Excellence in Upper Division Chemistry Award (2015)

UIW MSE Excellence in Organic Chemistry Award (2014)

UIW MSE Excellence in Chemical Principles Award (2013)

SERVICE

UIW Chemistry Club Vice President (2013 – 2015)

UIW Honors Program Peer Mentor (2014 – 2015)

UIW Meet the Mission Volunteer (2015)

University of the Incarnate Word Chemistry Club Demonstration Show Volunteer (2015)

118th Annual Meeting of the Texas Academy of Science Volunteer (2015)

John Jay Science and Engineering Academy Science Fair Judge (2014)

UIW Arts & Music Festival Volunteer (2014)

University of the Incarnate Word Chemistry Club Demonstration Show (2014)

John Jay Science and Engineering Academy Science Fair Judge (2013)

UIW Golden Harvest Volunteer (2013)

San Antonio State Hospital Thanksgiving Lunch Volunteer (2012)

PROFESSIONAL AFFILIATIONS

American Chemical Society: Undergraduate Student Member (2014 – Present)