

LAUREN M. HARRIS

laurenharris2@my.unt.edu

University of North Texas | Denton, TX 76203

EDUCATION

2012-2016 | B.S. in chemistry with a minor in mathematics and biology, University of North Texas

Spring 2017-present | Graduate School at the University of North Texas, in pursuit of PhD in inorganic chemistry

RESEARCH EXPERIENCE

May 2016- December 2016 | Undergraduate research in Dr. Mohammad A. Omary's Lab at the University of North Texas. Studies of the luminescent properties of gold diphosphine and diimine complexes, and their applications.

January 2017-Present | Graduate research under Dr. Mohammad A. Omary. Omary group for my graduate career. Focus on design and syntheses of monovalent transition coinage metals based functional materials, that contain potential to be used in energy applications, including energy saving, harvesting, and storage.

SKILLS

Frequent use of the following spectroscopic instruments:

- ❖ FTIR
- ❖ Fluorimeter
- ❖ UV-Vis
- ❖ Diffuse reflectance
- ❖ Melting point
- ❖ NMR

Practiced and knowledgeable in standard Schleck line techniques

Organometallic synthesis

ADVANCED CHEMISTRY COURSES

Advanced inorganic chemistry

Instrumental analysis

Advanced Chromatography

Physical Chemistry

Advanced Analytical Chemistry

Modern Analytical Chemistry

COURSES TAUGHT

January 2017-General Chemistry Lab | taught three lab sections of the first semester of general chemistry

May 2017- Research Assistant | I worked as a research assistant for Dr. Omary.

July 2017- Prepped Organic Labs | I was in charge of prepping the chemicals and materials needed for the students Organic Labs at UNT.

August 2017- Tutor Chemical Resource center at the University of North Texas | Was a tutor in the chemical resource center where I helped with all subjects of chemistry freshman to senior levels.

January 2018- Teaching Assistant Advanced Inorganic Chemistry | I taught two lab sections where I was in charge of designing, prepping and teaching labs.

May 2018- Tutor Chemical Resource center at the University of North Texas | Was a tutor in the chemical resource center where I helped with all subjects of chemistry freshman to senior levels.

July 2018- Organic II Lab Teaching Assistant

AWARDS AND HONORS

2017 Outstanding freshman level teaching assistant

CONFERENCES AND PRESENTATIONS

November 2016 | Regional ACS conference, SWRM

Research for the Classroom, Big Picture Projects 2016: Monovalent Copper Diphosphine-based Functional Coordination Oligomers as Potential LED Phosphors

April 2017 | ACS conference, Meeting in Miniature

Monovalent Coinage Metal Diphosphine-Based Complexes as Potential LED Phosphors for Display Technologies

PUBLICATIONS

Xiaozhen Han,^a Dong Zhang,^b Matthias Selke,^b Kevin K. Klausmeyer,^a Mukunda M. Ghimire,^c **Lauren M. Harris,**^c Mohammad A. Omary^c and Patrick J. Farmer* Mechanistic investigations of the photoinduced oxygenation of Ru(II)bisbipyridyl flavonolate complexes. *Inorg. Chem.* 2018, 57, 2416-2424.

REFERENCES

Dr. Mohammad A. Omary
Professor at the University of North Texas,
Denton TX, 76203
Tel: (940) 369-5752
Email: omary@unt.edu

Dr. Mukunda Ghimire
PhD Inorganic Chemistry
Mentor at the University of North Texas,
Denton TX, 76203
Email: MukundaGhimire@my.unt.edu