**Zachary T. Lawson**

3600 Winthrop Dr. Apt. 3105 Lexington, KY 40514 **|** (859) 912-0720 **|** ztla224@uky.edu

**Academic History**

**Northern Kentucky University Highland Heights, KY**

B.S., Chemistry (General Chemistry Track – ACS certified) Graduated May 2018

**Marian University Indianapolis, IN**

B.S., Chemistry Attended August 2014 – May 2015

**Research/Teaching Experience**

**Undergraduate Teaching Assistant – General Chemistry Dr. Isabelle Lagadic**

Northern Kentucky University *August 2017 – Present*

* Held weekly office hours to work with students and address their struggles in lecture.
* Conducted scheduled weekly review sessions for students to ask questions and become more comfortable with the course material outside of the classroom.
* Graded weekly homework assignments per instructor discretion.

**Undergraduate Research Assistant****Dr. Isabelle Lagadic**

Northern Kentucky University *May 2017 – Present*

* Conducted inorganic materials/ nanomaterials research in a traditional lab setting.
* Used instrumental techniques such as microwave irradiation, infrared spectroscopy, scanning electron microscopy, x-ray diffraction, and thermogravimetric analysis.
* Extensive use of an inert-gas glovebox and vacuum line system for the preparation of our thiol-functionalized organoclay; Mg-MTMS.
* Interpretation of infrared spectroscopy experimental data for the characterization of our organoclay composite material.

**Undergraduate Research Assistant Dr. Kebede L. Gemene**

Northern Kentucky University *November 2016 – May 2017*

* Completed in depth analytical chemistry research using electrochemical applications.
* Group conducted experiments for the analysis of potassium ion-selective electrodes in solutions such as buffers, biological and artificial blood.
* Utilization of our groups developed technique, chronopotentiometry, for data analysis of extracellular and intracellular potassium detected by constructed potassium selective electrodes.

**Presentations**

**SERMACS 2017 Poster Presentation** - Charlotte, NC *November 2017*

Investigating synthetic pathways for the efficient microwave-assisted preparation of organoclay-polystyrene composite materials. **Z. Lawson**, K. Huonnic, J. Rehel, I.L. Lagadic

**Dr. Heather Bullen Research Celebration** - Northern Kentucky University *April 2017*

Pulsed Chronopotentiometry for the Simultaneous Measurement of Extracellular and Intracellular Potassium using Ion-Selective Electrodes. **Z. Lawson**, S. Segal, K. Sabou, E. Gordon, E. Cady, J. Schraer, K.L. Gemene

**Professional Experience**

**Pharmacy Technician****Erlanger, KY**

Walgreens *April 2016 – Present*

* Interacted with customers to address their needs and concerns with their prescriptions.
* Processed, filled, and sold prescriptions.
* Stayed up-to-date on new medications, medication recalls, and pharmacy insurance coverage.

**Affiliations:**

* Student Member of the American Chemical Society – Analytical and Inorganic Divisions
* Gamma Sigma Epsilon Chemistry Honor Society – Inductee May 2017
* Northern Kentucky University Student Affiliate of the American Chemical Society
* Northern Kentucky University Bowling Club Vice-President