**Student Name** Email: student-email@onu.edu • Cell: 149-555-2222 • Cleveland, OH

**Objective**

To utilize any lab experience to further my education and prepare myself for graduate school.

**Education**

**Bachelor of Science in Chemistry, ACS certified**

Ohio Northern University Ada, OH, May 20XX

GPA: 3.92/4.00

Chemistry GPA: 3.88/4.00

**Experience**

**Research Experience,** January 20XX – present

Independent Study alongside Dr. Jake Zimmerman, Professor of Chemistry, Ohio Northern University

* Exploring fluorescent chromones as chemical sensors
* Performing NMR spectroscopy for characterization
	+ Synthesizing organic compounds
	+ Purifying compounds using chromatography techniques
	+ Examining chromones in metal solutions by fluorometry

**Organic Chemistry Lab**, August 20XX – present

Data collection and interpretation:

* Operate of a 400-MHz (11.7 T) NMR for 1H NMR, 13C NMR & DEPT, COSY, and HSQC & HMBC
* Trained in the use of programs such as TopSpin for NMR data analysis, ChemDraw Professional 15.0 and SciFinder
* Identify unknown compound
* Determine melting point, boiling point and refractive index
* Use of infrared spectroscopy, ultra violet spectrometry and mass spectrometry

Laboratory techniques:

* Synthesis of organic compounds and recrystallization
* Chromatography: TLC and use of CombiFlash purification system
* Simple and fractional distillation
* Extraction of organic compounds using separatory funnel techniques
* Use of rotary evaporator

**Analytical Chemistry Lab,** August 20XX – December 20XX

Trained in the use of:

* Microsoft Excel for data analysis
* XRF
* Ion-selective electrodes (fluoride)
* Ultraviolate – Visible spectrophotometer
* Horiba Jobin Yvon Fluoromax-4 and the program FluorEssence V 3.5
* Agilent 1100 HPLC
* Gas Chromatographer-Mass Spectrometer
* Raman Spectroscopy
* Attenuated Total Reflectance-Fourier Transform Infrared Radiation Spectrometer
* Gas Chromatographer

**Experience - Continued**

**General Chemistry Lab**, August 20XX – May 20XX

Techniques:

* Synthesis of inorganic compounds
* Strong acid – base titrations (gravimetric and potentiometric)
* Calorimetry

Instrumentation:

* pH meter
* Programs such as KaleidaGraph, LoggerPro, Spectra Suite and Ocean Optics
* Spectronic 20
* Ocean Optics Fiber Optic 2000 Spectrophotometer
* Galvanic electrochemical cell

**Affiliations**

Gamma Sigma Epsilon, spring 20XX – present

Leader’s Council LX: The Leadership Experience Participant, spring 20XX

Professional Association of Women in Science (PAWS), August 20XX – present

Student Member of the American Chemical Society (SMACS), Sergeant at Arms, August 20XX – present

Varsity Volleyball, Ohio Northern University, August 20XX – present

**Awards**

Dean’s List, August 20XX - present

Mildred Osman Smith & Paul P. Smith Award for Chemistry, spring 20XX

Academic All-Ohio Athletic Conference, fall 20XX