Jeri Smith

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Education

BACHELOR OF SCIENCE IN CHEMISTRY | DECEMBER 2016| BUTLER UNIVERSITY

- Major: B.S. in Chemistry through the American Chemical Society
- Minor: Mathematics
- GPA: 3.8 out of 4.0
- Honors: Dean's List, Butler University's Department of Chemistry Sophomore Award recipient, Alpha Lambda Delta Academic Fraternity, Phi Eta Sigma Academic Fraternity, National Collegiate of Scholars member, Butler University Mortar Board Honors Society
- Related Chemistry and Mathematics Coursework: General Chemistry, Organic Chemistry, Inorganic Chemistry, Advanced Inorganic Chemistry, Biochemistry I, Communication in Chemistry, Chemistry in the Community, Analytical Chemistry, Physical Chemistry, Calculus I, II, II, Differential Equations, Linear Algebra, Discrete Mathematics

MASTER OF ARTS | AUGUST 2019| BALL STATE UNIVERSITY

- Major and Department: Science Education, College of Science, and Humanities
- Major: Teaching in Chemistry
- GPA: 3.9 out of 4.0
- Related Education Coursework: EDFO 620 Social, Historical, and Philosophical Foundations in Education, EDPS 600 Advanced Educational Psychology, EDJH 585 Principals of Teaching in Middle School, EDSE 580 Principals of Teaching in Secondary School, EDST 676 Research Impact of Student Learning, and EDSE 560 Student Teaching: Secondary School
- Indiana CORE Assessments for Educator Licensure: Science-Chemistry (043): Pass: January 3, 2019

Education Experience

FIELD EXPERIENCES **FALL 2018**

- Middle School Field Experience **October 22-November 5, 2018**
  - Through this experience, I worked with Laura Raper at Highland Middle School in Anderson, IN. This experience afforded me the opportunity to help and teach 8th grade science and honors biology. The focus and objective for these plans was to cover the Standard 8.PS.1 which states, "create models to represent arrangement and charges of subatomic particles in an atom. Understand the significance that the currently 118 known chemical elements combine to form all matter in the universe." After presenting information about atoms, the students drew a plan for how they were going to build a model of an atom. The students then had to have their designs approved and then used different cereals to build their model.
- High School Field Experience **November 6-November 14, 2018**
  - Through this experience, I worked with Janna Ferguson at Anderson High School in Anderson, IN. This experience afforded me the opportunity to help and teach honors chemistry I, college credit chemistry II, and AP Chemistry. This was a lesson that took place over two days. The focus was on two substandards, **C.3.2** and **C.3.4**. **C.3.2.** states "compare and contrast how ionic covalent compounds form" and **C.3.4.** states "write chemical formulas for ionic compounds and covalent compounds given their names and vice versa."

STUDENT TEACHING **SPRING 2019**

- Anderson High School
- Cooperating Teacher: Janna Ferguson
- Courses: Honors Chemistry I and College Credit Chemistry II
- Cotaught/Assisted with AP Chemistry

TEACHING EXPERIENCE **FALL 2019-PRESENT**

- High School Science at Wes-Del High School, Gaston, IN
- Courses: Introduction to Chemistry and Physics (ICP) and Physics I
- Robotics Team Coach for our first year with a robotics team
  - Through this, I presented at the Future of Work (February 2020) in Muncie, IN
- Earned level 2 Schoology badge for technology integration in the classroom.

Chemistry Experience

RESEARCH **FALL 2014-SPRING 2017**

- Butler Summer Institute Research Scholar
  Summer 2015
  - Organic chemistry synthesis methods used to create alcohols that were manipulated into cyclic boronic half acids. The cyclic boronic half acids were then transformed into dihydrofurans through refluxing and microwave reactions. Alcohols were synthesized through the use of Grignard addition to an aldehyde or ketone. Purification primarily used: column chromatography. Analysis of the products used NMR spectra data.
- Analytical Chemistry Research **Fall 2015-Fall 2016**
  - Testing the VOCs of cooking spices and various meats
  - Gas Chromatograph Mass Spectrometer used to obtain data
  - Publication: Journal of Laboratory Chemical Education "Development of a Low-Cost Evolved-Gas Analysis (EGA) Device for the Rapid Detection of Volatile Organic Compounds (VOCs) from Common Household Items" Michael J. Samide, Anne M. Wilson*, Deven Shinholt, Jeri Smith
- Eli Lilly Discovery Research Intern **Summer 2016**
  - Worked in a chemical industry research setting for 12 weeks, with hands on synthesis research work in the lab
  - Flash Chromatography Purification, Nuclear Magnetic Resonance (NMR), Liquid Chromatography Mass Spectrometry (LCMS), and Microwave Digestion were all techniques used for synthesis analysis
  - Presented findings through a companywide presentation

LAB ASSISTANT **FALL 2015-FALL 2016**

- Assists in keeping students safe in organic chemistry laboratories
- Teaching necessary laboratory skills, such as how to use a rotary evaporator, GCMS, and NMR
- Setting up, cleaning, and disposing of waste properly

STUDY TABLES TUTOR **FALL 2015-SPRING 2017**

- As a tutor, I provide a resource for freshmen and sophomore students in general chemistry and organic chemistry to gain additional instruction outside of the classroom

Activities

- Alpha Chi Omega Member **Spring 2014-Fall 2016**
- Carrie's Walk Chair **Spring 2015**
  - Event held annually to raise awareness to the severe problem of drunk driving
- Chemistry Club Member and Executive Member **Fall 2013-Spring 2016**
- Club Tennis Member **Fall 2013-Spring 2015**