

Kayla Elaine Bates
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EDUCATION

University of Arizona **Fall 215-Current**
PhD student
Advisor: Dr. Denis Lichtenberger

Case Western Reserve University **Fall 2014**
Ten semester units of graduate coursework completed
GPA: 3.70

Humboldt State University **Bestowed May 2014**
B.S. Chemistry
Seminar Senior Project Focus: "Sonochemically Synthesized Indium(III) Sulfide
Quantum Dots: Structure, Size Dependent Optical and Electrical Properties"
GPA: 3.40

RESEARCH

Humboldt State University **Fall 2013**
Advisor: Dr. Robert Zoellner
Computational chemistry research on strained polycyclic hydrocarbons using
Spartan 14 and Gaussian 09

Humboldt State University **Spring 2014**
Advisor: Dr. Joshua Smith
Synthesis of 1,2,3,4-tetrafluoroanthracene was completed followed by
photodimerization leading to the analysis and characterization of the resultant
species.

TEACHING EXPERIENCE

Organic Chemistry Teaching Assistant **Fall 2015**
University of Arizona
Wrote pre-lab lectures, quizzes, and lab final exam, applied a grading rubric to
weekly lab reports, managed and guided students in laboratory technique, time
management, and safety procedure.

Laboratory Teaching Assistant **Fall 2014**
Case Western Reserve University
Provided instruction and direction to students on laboratory technique, enforced
proper safety procedure, and applied grading rubrics to student laboratory
notebooks for two lab sections of sophomore organic chemistry.

Supplemental Instructor **Spring 2014**
Humboldt State University
Reinforced concepts covered by lecture through Q&A, leading discussion, and
problem sets over 50-minute biweekly classes.

RELATED EXPERIENCE

Chemistry Stockroom Assistant

Humboldt State University

Provide support to professors and students in research, experimentation, and general upkeep of the Chemistry Department Stockroom.

Aug. 2013 – May 2014

POSTER PRESENTATION

“Synthesis of the [4+4] Photodimer of 1,2,3,4-Tetrafluoroanthracene”

Jonas Pedersen, Kayla Bates, Josh Smith. 26th Annual Northern California Undergraduate Research Symposium

Spring 2014

MEMBERSHIPS

American Chemical Society

Junior Member