

Recent Graduate ACS Chemistry

2100 Shields Street, Fort Collins, CO ▪ 970-222-2222 ▪ acschemistry@gmail.com

EDUCATION

Bachelor of Science in Chemistry, ACS certified, Minors in Math and Spanish

Colorado State University, Fort Collins, CO, May 2012

Honors Program, GPA 3.81/Cum Laude

Honors Undergraduate Thesis, *Exploring education needs for high school students*

RESEARCH EXPERIENCE

Colorado State University Chemistry Department, Fort Collins, CO Undergraduate Research

Dr. PChem Research Group,

May 2011-August 2011

- Used program Gaussian 09 to explore potential energy surfaces
- Optimized and characterized reaction transition states and equilibrium structures
- Constructed reaction coordinate diagrams from Gaussian results
- Explored the nitro-nitrite isomerization and the NO dissociation of two different imidazoles
- Began construction of a CASS active space for those same imidazoles

Dr. Chromatography Research Group, Organic Chemistry,

January 2011-May2011

- Synthesized Phosphine ligands
 - Purified Phosphine ligands via column chromatography
 - Used Phosphine ligands in a 2+2+2 heterocyclic reaction
 - Characterized compounds via NMR spectroscopy
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TECHNICAL SKILLS

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| • NMR spectroscopy | • Experience in the glove box | • Word |
| • Infrared Spectroscopy | • Gaussian 03 | • Exposure to GMP |
| • UV-VIS spectroscopy | • Power Point | |
| • Column Chromatography | • Excel. | |
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ADDITIONAL WORK EXPERIENCE

Tutor

Triunfo Tutoring, Fort Collins, CO

January 2009-May2012

- Tutored elementary school students in math and developed strong reading habits.

Tutor

Colorado State University, Athletic Department, Fort Collins, CO

January 2012-May2012

- Tutored Biology, Calculus, and Physics
- Each session consisted of one or two students who struggled with conceptual mastery of the material

Tutor

Private Chemistry Tutoring, Fort Collins, CO

January 2010-May2010