

## **EDUCATION**

---

|  |                                      |
|--|--------------------------------------|
| <b>Brown University</b>  | Providence, RI, Graduation: May 2015 |
| • Bachelor of Science in Biomedical Engineering and Chemical Physics |                                      |
| <b>Florida State University</b>                                      | Tallahassee, FL, 2010-2012           |
| • Honors College   |                                      |
| • Tau Beta Pi  |                                      |
| <b>Winter Park High School</b>                                       | Winter Park, FL, 2008-2010           |
| • IB Diploma, National Honor Society                                 |                                      |
| • Crew-Stotesbury National Gold Medalist                             |                                      |

## **RESEARCH EXPERIENCE**

---

|   |                     |
|---|---------------------|
| <b>Chemical research under Dr. Christoph Rose-Petruck, Brown University</b>   | August 2012-present |
| • Developing new catalytic chemistries to convert carbon dioxide into a sustainable feedstock                       |                     |
| • Capture and convert atmospheric carbon dioxide into hydrocarbons  |                     |
| • U.S. Provisional application No. 61/886,152; Electrochemical processing of clathrate hydrates                     |                     |
| • Multiple publications in preparation  |                     |
| <b>Visiting Scholar at the University of California, Berkeley, under Dr. Stephen R. Leone</b>                       | Summer 2012         |
| • Femtosecond extreme ultraviolet transient absorption spectroscopy studying electron dynamics in transition metals |                     |
| <b>Toxicology research under Dr. Mark L Kearley, Florida State University</b>                                       | 2011-2012           |
| • Studying the adduction of proteins by exposure to ethanol metabolites using mass spectrometry (MS):               |                     |
| ○ Matrix Assisted Laser Desorption/Ionization-Time of Flight MS   |                     |
| ○ Liquid Chromatography-MS  |                     |

## **SURGICAL OBSERVERSHIP—MD Anderson Cancer Institute, Orlando, Florida**

---

|   |             |
|---|-------------|
| Observed numerous surgical procedures including, neurosurgery, pancreatectomy, and open heart | Winter 2011 |
|---|-------------|

## **LEADERSHIP EXPERIENCE**

---

|   |            |
|---|------------|
| Co-Chair, Chemistry Department Undergraduate Group, Brown University        | 2013- 2014 |
| Student Rocketry Club, Founder and President, Florida State University      | 2010- 2012 |
| Student Executive Council, College of Engineering, Florida State University | 2011- 2012 |
| Undergraduate Research Council, Florida State University                    | 2011- 2012 |

## **COMMUNITY INVOLVEMENT AND ACTIVITIES**

---

|   |                     |
|---|---------------------|
| Hands on Chemistry demonstrations   | Summers 2013, 2014  |
| • Performed chemistry experiments at local elementary school  |                     |
| Brookhaven National Laboratory Summer Sunday  | Summers 2013, 2014  |
| • Spoke about basic Science principles with over 2000 visitors to the National Lab                    |                     |
| Museum of Science in Boston   | Spring 2014-present |
| • Designed a comprehensive chemical outreach program to be a permanent part of museum                 |                     |
| Rhode Island Free Clinic  | Spring 2014-present |
| • Volunteered guiding patients through lab/specialist referral paperwork, filling prescriptions, etc. |                     |
| Student Seminars through Challenger Learning Center, Tallahassee                                      | 2011- 2012          |
| • Taught rocketry to hundreds of Title 1 students ages 5-12   |                     |
| Student Education Initiative (SEI)  | 2011- 2012          |
| • Created and launched SEI which taught science to elementary school students                         |                     |
| Florida State University Teach Program  | Spring 2011         |
| • Taught science to 4 <sup>th</sup> graders at a Tallahassee elementary school                        |                     |

## **HOBBIES**

---

Crew, tennis, running, building computers, piano, golf, scuba diving, First Degree Black Belt in Tae-Kwon Do