

Andrew C. Tibbits

123 Arielle Drive
Newark, DE 19702

Education

University of Delaware, Newark, DE (August 2012 – Present); *Projected Completion: Spring 2017*

Ph.D. in Chemical and Biomolecular Engineering

GPA: 3.64/4.00

North Carolina State University, Raleigh, NC (August 2008 – May 2012)

B.S. in Chemical Engineering (Honors Concentration); Minors in Spanish and International Studies

GPA: 3.91/4.00; *Summa Cum Laude*

Research and Work Experience

- **University of Delaware, Newark, DE**

Graduate Research Assistant (January 2013 – Present); PIs: Dr. Chris Kloxin and Dr. Yushan Yan

Thesis Topic: “Design, Synthesis and Characterization of Photo-Crosslinked Ion Conductive Click Chemistry Membranes with Novel Microstructure.”

- **North Carolina State University, Raleigh, NC**

Undergraduate Researcher (December 2010 – May 2012) PI: Dr. Orlin Velev

- Particle-stabilized foams derived from cellulose and lignin biomaterials.

Undergraduate Researcher (January 2010 – May 2010) PI: Dr. Wesley Henderson

- Solvent and anion structural effects on Li⁺ cation solvation state for lithium-ion battery applications.

- **Eastman Chemical Company, Kingsport, TN**

Intern (May – August 2011): Fibers Research and Development Division

- Evaluated a photo reflectance tool in the examination of fundamental acetate tow crimp behavior and measured line-to-line batch variations in crimp properties.

Intern (May – August 2010): Specialty Chemicals Process Improvement Division

- Designed and installed a cold glycol meter, implemented a Visual Basic (VBA) program to reform the division interlock disabling system, and revised division standard operating procedures.

Honors and Awards

- Graduate Student Professional Development Award (November 2015, July 2016)
- Honorable Mention in National AIChE Conference Poster Competition: Sustainability (October 2011)
- Dennis Carroll Scholarship (2011 – 2012)
- Recipient of NC State Visionary Leadership Certificate (April 2011)
- NC State Goodnight Scholarship (2008 – 2012)

Teaching and Mentoring Experience

- **University of Delaware, Newark, DE**

Mentor for Undergraduates (June 2014 – Present)

- Laura Mumper: June 2014 – Present; John Affriol: June 2014 – August 2014

Teaching Assistant for CHEG305 (Applied Mathematics for Chemical Engineers) (February – May 2014)

- **North Carolina State University, Raleigh, NC**

Undergraduate Tutor (January – December 2009)

- Served as an individual tutor, group tutor, and sign up tutor on an as-needed basis.
- Led a supplemental information recitation session for a CH201 (Quantitative Chemistry) lecture three times a week (Fall 2009).