

# Claire Smith

## Education

**Bachelor of Science in Chemistry**, May 2009

Ursinus College, Collegeville, PA

Minor: Mathematics

GPA: 3.61

*Honors:* Dean's List, CRC Press Freshman Chemistry Achievement Award, W. W. Smith Scholar and Prize Winner

*Relevant Coursework:* Organic Chemistry, Physical Chemistry, Inorganic Chemistry, Biological Chemistry, Instrumental Analysis, Spectral Interpretation

## Experience

**Research Assistant** – Chemistry Department, Ursinus College, Collegeville, PA

(Fall 2008)

- Studied the amination of carbonyl functional groups on single-walled carbon nanotubes.
- Investigated the use ultraviolet light to facilitate the functionalization single-walled carbon nanotubes.
- Utilized Infrared spectroscopy and UV/VIS spectroscopy to analyze results.

**Summer Research Fellow** – Ursinus College, Collegeville, PA

(Summer 2008)

- Studied the hydroboration of single-walled carbon nanotubes using ultraviolet light.
- Synthesized graphene from graphite.
- Presented results at the 2008 National Conference of the American Chemical Society on August 19<sup>th</sup>.

**Research Intern** – Center for Molecular Microbiology and Infection, Imperial College, London, UK

(Spring 2008)

- Synthesized lipid membranes and investigated membrane/protein interactions.
- Utilized a fluorescent probe and Fluorimetry to study this interaction.
- Presented results to the research group at CMMI.

**Research Assistant** – Chemistry Department, Ursinus College, Collegeville, PA

(Fall 2007)

- Completed the synthesis of a porphyrin.
- Utilized column chromatography to purify the product.
- Analyzed results using mass spectrometry.

**General Chemistry Teaching Assistant/Tutor** – Ursinus College, Collegeville, PA

(Fall 2006-Fall 2008)

- Assisted students in performing the laboratory experiments successfully.
- Answered specific questions on homework problems and lab report calculations.
- Worked individually with students to aid their understanding of chemistry theory.

## Activities

Beardwood Chemical Society – Vice President

Ursinus College Dance Company – member

Relay for Life – participant