

## A. Benjamin Schantz

### Permanent

1517 Brandywine Drive  
West Chester, PA 19382  
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### Current

304C Patterson Hall  
White Course  
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(Email is the best way to contact me.)

**Objective:** To pursue a career in chemical engineering research, focusing specifically on energy and polymer science

### **Education:**

Aug. 2012 Began coursework for a PhD in Chemical Engineering  
Penn State University, University Park, PA, GPA 3.9 out of 4.0  
May 2012 Bachelor of Science in Chemical Engineering  
University of Delaware, Newark, DE, GPA 3.9 out of 4.0  
Honors Program (completed 12 honors courses/36 credits)  
Minor in Renewable Energy (6 credits policy coursework, 9 credits technical coursework)  
Jan. 2010 Argentina Study Abroad (completed 6 credits of Spanish and Latin American Studies courses)

### **Work experience:**

2012-2013 Maranas and Kumar research groups, Penn State University, University Park, PA  
Lab Goal: to design and simulate biomimetic polymer membranes  
Performed: Molecular dynamics simulations using GROMACS software  
2010 Epps Group, University of Delaware, Newark, DE  
Lab Goal: to develop improved lithium battery electrolytes  
Performed: salt-doping of diblock copolymers and analysis via small-angle x-ray scattering and impedance values  
Poster Presentation at 2010 Undergraduate Research Science Symposium, "Morphology and Conductivity Effects of Salt Doping in Diblock Copolymers."  
Article "Mixed-Salt Effects on the Ionic Conductivity of Lithium-Doped PEO-Containing Block Copolymers" published by *Macromolecules*

### **Activities:**

2012-2013 Vice-Chair of Nittany Grotto Caving Club  
2010-2012 Delaware Kendo Club (Martial Arts)  
2008-2012 Treasurer of Students in the Public Interest (UDel political discussion club)  
2008-2011 University of Delaware Marching Band  
2008-2012 La Tertulia Espanola, UDel Spanish club

### **Awards and Honors:**

2011 Fundamentals of Engineering certification  
2010-2012 Chemical Engineering Class of 1950 Academic Scholarship  
2010 Chemical Engineering Industrial Sponsors Award  
2010 Research essay on privacy and electronic databases was selected for publication in the Arak Anthology, an essay-writing guide for freshman English courses  
2010 General Honors Award for Academic Achievement  
2010 Summer Scholars Research Scholarship  
2008-2012 1743 Academic Scholarship