

Benjamin A. Sheyko

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EDUCATION

Purdue University

B.S. Chemical Engineering, Chemistry Minor

2007 - 2011
West Lafayette, IN
Overall G.P.A - 3.8 / 4.0

Georgia Institute of Technology

Ph.D. Chemical and Biomolecular Engineering Candidate

2011
Atlanta, GA

AWARDS / HONORS

- Dr. Franklin Miles Science Scholarship 2007
- Purdue Semester Honors (all semesters)
- Purdue University Dean's List (all semesters)

RESEARCH EXPERIENCE

Purdue University Chemical Engineering Undergraduate Research for Dr. John Morgan

Undergraduate Researcher - Purdue School of Chemical Engineering

May - August 2010

Project: Metabolic Flux Analysis of Algae as a Function of Life Stage

West Lafayette, IN

- Studied the metabolism of algae for the production of biodiesel through metabolic flux analysis using non aqueous fractionation and enzymatic assays
- Analyzed and improved past researcher's experimental procedure, resulting in better compartmental separation and enzyme identification
- Developed numerous factorial DOE's for the optimization of several enzymatic assays

Undergraduate Researcher - Purdue University S.U.R.F. Program

2009 - 2010

Project: Production of Cinnamic Acid Analog Glycosides with *Saccharomyces cerevisiae*

West Lafayette, IN

- Worked independently under the supervision of a ChE graduate student in the area of enzymatic glycolysis
- Cultivated various research skills including : HPLC with fractional collection and GC/MS
- Concluded summer research with writing a technical paper and developing a poster/presentation

LEADERSHIP EXPERIENCE

AIChE - American Institute of Chemical Engineers

Industrial Relations Committee Head

2010 - 2011

- Bridge the gap between various ChE company's HR representatives and ChE students, creating more professional opportunities for ChE undergraduates

O X E - Chemical Engineering Honor Society

Undergraduate Tutor

2010 - 2011

- Tutored undergraduate chemical engineering students in several classes, developing technical communication skills while helping others better understand the material

SKILLS

- HPLC, GC/MS, Microsoft Office, ASPEN Tech, MATLAB, Autodesk AutoCAD, JMP Statistical Software, Adobe InDesign/Photoshop