

ELIZABETH WYLIE

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EDUCATION

Northwestern University, Evanston, IL

M.S. in Chemical Engineering

Thesis: *An Investigative Study on Computer Assisted Synthesis Design*

2015 (tentative)

Skidmore College, Saratoga Springs, NY

B.A. in Physics and Chemistry

Cum Laude with Honors in Physics

2012

WORK EXPERIENCE

Intern, InStep Software, LLC., Chicago, IL

2014 – Present

- Responsible for generating training materials for PRISM software product

Research Assistant, Grzybowski Group, Northwestern University

2012 – Present

- Worked with team to create novel computer aided retrosynthetic design software application. Please see Chematica.net.
- Performed related research in CASD, chemical informatics, machine learning, statistics and data science. Published: "Organic Chemistry as a Language ...", Angew. Chem. Int. Ed, 2014, DOI: 10.1002/anie.201403708
- Developed and Maintained our core MongoDB(NoSQL)
- Maintained our internal linux servers and worked with NUIT to troubleshoot problems as necessary

Teaching Assistant, ChBE Department, Northwestern University

2012 – 2014

- Performed duties as assigned by lead instructor. Included grading homework, holding office hours and proctoring exams (as needed).

Professional Development Intern, SSEC, Smithsonian Institution, Washington, D.C.

2012

- Acted as the liaison for the Energy Academy week of SSEAT 2012. Worked with content experts to schedule and plan visits to energy related sites around Washington, D.C.
- Performed research in energy efficiency, energy generation, physics education and current events while updating program materials

Physical Chemistry Lab Assistant, Chemistry Department, Skidmore College

2011 – 2012

Usher, Zankel Music Center, Skidmore College

2010 – 2012

Peer Tutor/Study Group Leader, S.A.S., Skidmore College

2009 – 2012

Engineering Intern, Renaissance Electronics Corporation, Harvard, MA

2008 – 2011

- Performed general on site IT research and troubleshooting. Acted as liaison with external IT support company
- Performed programming tasks as necessary. Wrote two applications using Dynamic C & HTML and VB & HTML for embedded chip-sets.
- Performed various technical tasks as needed such as: PDF formatting/design, excel macros (VB), data cleaning, ERP software research and 'retiring' old hardware

RELATED STUDIES

Data Structures and Data Management, Northwestern University

2013

Methods of Applied Mathematics, Northwestern University

2012

Dynamical Systems, Skidmore College

2011

Advanced Theory & Methods (Physics), Skidmore College

2011

AWARDS

University Fellowship, *Northwestern University*

2012

Sigma Pi Sigma, *Skidmore College*

2011 – 2012

Porter Scholarship in Math and Science, *Skidmore College*

2008 – 2012

Dean's List, *Skidmore College*

2009, 2010

Slaughter Merit Scholarship, *Skidmore College*

2008 – 2011

Luke and Jerusha Vose Blanchard Scholarship

2008 – 2012

LEADERSHIP, MEMBERSHIPS & VOLUNTEERING EXPERIENCE

SVL Assistant, *Adler Planetarium*

2014 – Present

Graduate Student Forum, *N.U.*

2013 – 2014

ChBE Departmental Retreat Planning Committee, *N.U.*

2013

SGA Committee on Diversity Affairs, *S.C.*

2010 – 2011

IPPC Subcommittee on Financial Aid and Admissions, *S.C.*

2010 – 2011