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Evan M. Curtin

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Education

University of Illinois @ Urbana-Champaign Pursuing PhD in Chemistry	**Urbana, IL** 2015 - Present
Drexel University Bachelors and Masters of Science in Chemistry (BS/MS) Magna Cum Laude	**Philadelphia, PA** 2010 - 2015

Research Experience

University of Illinois @ Urbana-Champaign Graduate Research Assistant Theoretical Chemistry Method Development	**Urbana, IL** 2015 - Present
Drexel University Research Assistant Reduced Complexity Models for Nanostructure	**Philadelphia, PA**

Properties	2013 - 2015
Janssen Pharmaceuticals of Johnson & Johnson Biologics R&D Co-op Determined the kinetics and affinity for antibody therapeutics binding to disease targets using Surface Plasmon Resonance (SPR)	**Spring House, PA** Apr - Sep 2013
Drexel University Undergraduate Research Assistant Advisor: Dr. Jean-Claude Bradley, Department of Chemistry Open Science Melting Point and Solubility Databases	**Philadelphia, PA** 2011 - 2012

Awards

Mark Pytosh Fellowship University of Illinois @ Urbana Champaign Funded by Mr. Mark and Mrs. Hilda Pytosh	**Aug 2016**
NSF-GRFP Honorable Mention National Science Foundation	**Mar 2016**
Chemistry Second Honors Drexel University College of Arts and Sciences	**May 2015**
Hypercube Scholar Award Hypercube, Inc.	**May 2015**
Baccalaureate Award for Academic Achievement American Institute of Chemists	**May 2015**
Open Notebook Science Award Royal Society of Chemistry	**May 2011**

Publications

A Reduced Dimensionality Model of Torsional Vibrations in Star Molecules **Curtin, E. M.**, & Sohlberg, K. (2016). *Physica E: Low-Dimensional Systems and Nanostructures*, 77, 131–137.	**Mar 2016**
ONS Open Melting Point Collection Bradley, J.-C., Bradley, J.-C., Lang, A., Williams, A., & **Curtin, E.** (2011). *Nature Precedings*.	**Aug 2011**
Determination of Abraham model solute descriptors for the monomeric and dimeric forms of trans-cinnamic acid using measured solubilities from the Open Notebook Science Challenge Jean-Claude Bradley, Michael H Abraham, William E Acree Jr, Andrew SID Lang, Samantha N Beck, David A Bulger, Elizabeth A Clark, Lacey N Condron, Stephanie T Costa, **Evan M Curtin**, Sozit B Kurtu, Mark I Mangir and Matthew J McBride (2015). *Chemistry Central Journal*, 9(1), 11.	**Jan 2015**

Teaching Experience

University of Illinois @ Urbana-Champaign One semester of Physical Chemistry and one semester of General Chemistry Lab. For all courses with evaluations, I was rated by students as "excellent."	**Urbana, IL** Fall 2015 - Spring 2016

Technical Skills

Python Heavy emphasis on numerical computation and data analysis. Significant experience using NumPy, SciPy, and matplotlib. Very comfortable with Pandas and Cython. Familiarity with SWIG. Used predominately in 2 major projects, as well as dozens of smaller ones, including side projects for my own entertainment.	**2000 Hours**
C++ Predominately used in numerical code where performance is at a premium. I've used C++ both to extend Python by way of Cython, but have also written an entire project in C++ using Make, GDB, gcc and valgrind.	**1000 Hours**
FORTRAN77/90 My first programming language. The code for the March 2016 paper was written exclusively in FORTRAN, using only a few of the features of the 90 standard.	**500 Hours**
HTML/CSS I spent a few weekends designing two blogs, including my technical one, and my collaborative cookbook.	**50 Hours**
Microsoft Office Wrote papers in Word, used Powerpoint for presentations and excel for data analysis from 2006 to the present day.	**>1000 Hours**