

Tristan Abbott

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Education

University of Wisconsin-Madison: B.S. with Honors in Computer Science, expected May 2016

GPA: 3.98/4.0 (4.0 in the major)

Aarhus University, Denmark: Semester abroad, Spring 2015. Completed five courses in computer science.

GPA: 4.0/4.0

Academic Honors

NSF Graduate Research Fellowship Program Honorable Mention, 2016

Dean's Honor List, Fall 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2014, Fall 2015

State of Wisconsin Academic Excellence Scholarship, 2012-2013, 2013-2014

UW-Madison William F. Vilas Scholarship, 2012-2013, 2013-2014

UW-Madison Kemper K. Knapp Scholarship, 2012-2013

UW-Madison College of Engineering Freshman Academic Achievement Award, 2012-2013

National Merit Scholarship, 2012

Coursework

Chemistry, Physics, Vector and Complex Calculus, Linear Algebra, Ordinary Differential Equations, Numerical Analysis, Theory of Computing, Introduction to Algorithm Design, Linear Programming, Combinatorial Optimization, Dynamic Algorithms (graduate level), Machine Learning (graduate level), Discrete Geometry (graduate level)

Employment and Research Experience

Samuel Stechmann, University of Wisconsin – Madison, Department of Mathematics

Undergraduate Research Assistant, June 2014 – November 2014, June 2015 – Present

Investigating statistical properties of stochastic precipitation models using FORTRAN simulations on distributed computing networks; analytical and numerical analyses; applied spectral analysis and least-squares techniques to compare reanalysis data sets and radiosonde records.

Luigi Butera, University of Chicago Department of Economics, Chicago, IL

Programming Consultant, January 2015 – June 2015

Implemented a searchable, Java-based charity statistics database and a survey tool for behavioral economics experiments.

Anya Samek/Behavioral and Experimental Economics Laboratory, University of Wisconsin – Madison

Programmer, September 2013 – June 2014

Developed Java-based compound interest visualization software for behavioral economics experiments.

Camp Shalom, Jewish Federation of Madison, Madison, WI

Counselor, June 2013 – August 2013

Organized and led group activities for elementary school-age children.

Jin Group, University of Wisconsin – Madison, Department of Chemistry

Undergraduate Research Assistant, February 2013 – May 2013

Refined synthesis processes for lead selenide nanoparticles used in photovoltaics; identified a ligand whose concentration controls nanoparticle size.

Weibel Group, University of Wisconsin – Madison, Department of Biochemistry

Undergraduate Research Assistant, August 2012 – December 2012

Investigated interactions between the RecA protein and *E. Coli* lipid membranes.

Publications

Programming contributions acknowledged in “Using Online Compound Interest Tools to Improve Financial Literacy”, Anya Samek, Percival Matthews, and Edward Hubbard. In Progress.

Extracurricular Activities

Wisconsin Hoofers Mountaineering and Outing Clubs, University of Wisconsin-Madison

September 2013 – Present

Indoor and outdoor rock climbing; competing in UW bouldering competitions.

Wisconsin Club Cycling, University of Wisconsin-Madison

September 2012 – Present

Riding with teammates and in races within Wisconsin.

ACM Intercollegiate Programming Competition, University of Wisconsin-Madison

September 2015 – December 2015

33rd out of 223 teams at the Midwest regional competition.

Greater University Tutoring Service, University of Wisconsin-Madison

Volunteer Tutor, September 2012 – May 2014

Tutored fellow college students in calculus and physics.