

Trevor Hull

Columbia University - Department of Chemistry
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Education

Columbia University

Ph.D., Chemistry
August 2014 – June 2019 (expected)
Research Advisor: Dr. Jonathan S. Owen

University of Utah

B.S., Chemistry
August 2010 – May 2013
Research Advisor: Dr. Michael H. Bartl

Research

Columbia University

New York, NY
July 2014 – Present
Graduate Research Fellow

Ongoing study of crystallization techniques and physical characteristics of organometal halide Perovskite structures and devices.

University of Utah

Salt Lake City, UT
August 2012 – June 2014
Undergraduate Researcher

Lead a study of CdSe nanocrystal quantum dot (QD) dissolution kinetics. Monitored monomer dissolution from QD surface via in situ UV/vis spectroscopy. Assisted a Ph.D. candidate in making and characterizing highly reflective Bragg stack 1D photonic crystals using sol-gel processing techniques.

Watson Pharmaceuticals (now Actavis)

Research Park, Salt Lake City, UT
May 2011- August 2012
Intern, Analytical R&D Research Stability

Performed and assisted in HPLC and UPLC assay, pH & Viscosity determination, and adhesive cold flow testing on generic and branded transdermal pharmaceutical products in Research Stability Group. Maintained a GMP/FDA regulated lab notebook.

Teaching

Columbia University

Summer 2014

University of Utah

Fall 2012, Summer 2013

Laboratory Teaching Assistant

Guided 15-20 students through four hour organic chemistry labs.
Held office hours to answer student questions.

Columbia University

Fall 2014

General Chemistry Recitation Leader

Held weekly recitation section to go over lecture material and problem solving techniques with three sections of 20-25 students. Held office hours to answer student questions.

Honors and Awards

University of Utah Honors at Entrance full-tuition scholarship 2010

Crocker Undergraduate Internship Award 2011

University of Utah Deans List

Outreach

Columbia University

Women in Science at Columbia (WISC)

Girls Science Day 2014

Made liquid nitrogen ice cream for participants during lunch. Co-led experimental demonstration of liquid nitrogen's effect on solids and their pliability, effects of inert atmosphere on light bulb filaments.

Cyprus High School

Cyprus High School Chemistry Alumni

Magna, UT

2013 - 2014

Visited AP Chemistry class to discuss experiences studying and working in chemistry to encourage students to consider STEM career opportunities.