

Darya Howell

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EDUCATION

Michigan State University, East Lansing, Michigan

- Current Graduate Student, Chemistry
- Bachelor of Science, Chemistry, May 2008, with Honors
- Bachelor of Arts, Spanish, May 2008, with Honors

Duke University, Durham, North Carolina

- Master of Science, Chemistry, August 2012
- Thesis: *Unique contributions of iDQC MR contrast to stimuli-sensitive liposomal chemotherapy and imaging*

SKILLS

- General wet lab chemistry and microbiology, including quantitative analysis, electrochemistry, organic synthesis, and high-pressure catalysis
- Maintenance, set-up, and analytical use of HPLC
- Analytical use of GCMS, LCMS, atomic absorption, UV-VS, and cyclic voltammetry
- Configuration, troubleshooting, programming, and analytical use of NMR and MRI
- Setting up and maintaining a chemical inventory,
- Monitoring laboratory safety compliance and training other researchers
- Data analysis and simulation using MATLAB, including scripting
- Computer programming in Python (basic knowledge)
- Managing a classroom, including both lecturing and interactive discussion and problem-solving
- Creating study aids and classroom materials, in both digital and traditional formats
- Electronic course management for both classroom and laboratory classes

CONFERENCE PRESENTATIONS

- ACS Green Chemistry and Engineering Conference, 2016
- Green Up, Conference on Green Chemistry, 2014, 2015

PROFESSIONAL EXPERIENCE

Graduate Research Assistant, under the direction of Dr. James Jackson, Aug 2013 to Current
Michigan State University Department of Chemistry, East Lansing, Michigan

(Note: unfunded research in pursuit of a graduate degree, concurrent with teaching positions below.)

Teaching Assistant, Aug 2013 to Aug 2017

Michigan State University Department of Chemistry, East Lansing, Michigan

- **General Chemistry Lecture**, Under the direction of Dr. Amy Pollock
- **Organic Chemistry Lecture**, Under the direction of Dr. Michael Rathke and Dr. James Jackson
- **General Chemistry Laboratory**, Under the direction of Dr. Amy Pollock
- **General Chemistry Laboratory (modernized)**, Under the direction of Dr. Joseph Ward
- **Organic Chemistry Laboratory**, Under the direction of Dr. Ardeshir Azadnia

Research Assistant, under the direction of Dr. Warren Warren, May 2011 to May 2012

Duke University Department of Chemistry, Durham, North Carolina

- Applied intermolecular quantum coherence scanning to liposomal solutions and phantoms
- Developed the mathematical models to access the effectiveness of liposomal imaging
- Published the aforementioned thesis on liposomal imaging

Laboratory Teaching Assistant, Analytical Chemistry, under the direction of Dr. Todd Woerner,
Duke University Department of Chemistry, Durham, North Carolina, Aug 2011 to May 2011