

Shannon M. Morey

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Education

Massachusetts Institute of Technology (2010 – present)

Graduate Student, Department of Chemistry

Master of Science expected Spring 2013

GPA: 4.3/5.0

Michigan State University (2006 – 2010)

Bachelor of Science in Chemistry, High Honors

College of Natural Science, Honors College

2010 MSU Robert Clark Kedzie Award for the Outstanding BS Chemistry Major

GPA: 3.99/4.0

Professional Experience

Graduate Research Assistant (November 2010 – present)

Massachusetts Institute of Technology, Department of Chemistry

- National Science Foundation Graduate Research Fellow
- Synthesizing biomimetic materials with applications in drug delivery, tissue engineering, and stem cell development
- Mentor to four undergraduate researchers

Women's Programs Graduate Community Fellow (August 2011 – present)

Massachusetts Institute of Technology, Office for the Dean of Graduate Education

- Organized the two-day 2011 Path of Professorship workshop for 60 graduate and post-doctoral women interested in pursuing a career in academia - coordinated speakers, reviewed 150 applications, and evaluated the effectiveness of the program
- Planning Team Leader for the 2012 Path of Professorship workshop
- Organized panel discussions on academic publishing and careers in industry, both attended by approximately 50 graduate women

Teaching Assistant: General Chemistry Course (August 2010 – May 2011)

Massachusetts Institute of Technology, Department of Chemistry

- Prepared and presented live chemical demonstrations for over 100 students
- Led two recitation sections per week where I designed and delivered lectures, taught problem-solving skills, and answered student questions
- Held weekly office hours and review sessions

Research Experience for Undergraduates Summer Intern (June 2009 – August 2009)

Cornell University, Cornell Center for Materials Research

- Synthesized iron dichloride compounds and studied their electronic properties using Mössbauer spectroscopy

Undergraduate Research Assistant (September 2008 – May 2010)

Michigan State University, Department of Biosystems Engineering

- Assisted in set-up of a Liquid Chromatography Mass Spectrometer
- Completed simulations of the persistence of commonly applied botanical insecticides

Undergraduate Research Assistant (August 2006 – May 2010)

Michigan State University, Department of Chemistry

- Aided in construction and characterization of Rapid Freeze-Quench Kinetic System
- Characterized the enzyme TauD using continuous wave and pulsed electron paramagnetic resonance

Leadership Experience

Chembites, Founder and Author (January 2011 – present)

- Founded Chembites, a blog where a team of fifteen graduate students pick recently published papers from the chemical literature to summarize for an undergraduate audience
- Authored thirty-one articles to date
- Develop and maintain the Chembites website (www.chembites.org), which has published nearly 100 articles to date

East Boston High School Mentor (September 2010 – present)

- Co-developed a battery recycling campaign and Science Carnival program run by AP Chemistry students, which educated over 250 students about recycling and collected over 1000 batteries
- Applied for and received funding from the MIT Committee on Race and Diversity to support the battery recycling campaign
- Mentored three high school students participating in science fair, providing guidance and advise on technical and communication issues

Science Theatre (September 2006 – May 2010)

Student Run Science Outreach at Michigan State University

Director: 2008-2010

Chemistry Director: 2007-2008

- Organized and led seventeen performances of interactive science demonstrations at schools and events throughout Michigan as well as participated in dozens of other events
- As Director, quadrupled the number of annual performances and undergraduate volunteers and increased donation receipts fivefold
- Recipient of the 2009 Michigan State University Student Leader of the Year award for leadership of Science Theatre

Skills

Synthetic chemistry: Three years laboratory research experience

Expertise in the following characterization techniques:

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| • Nuclear Magnetic Resonance | • Gel Permeation Chromatography |
| • Mass Spectrometry | • Circular Dichroism |
| • Dynamic Light Scattering | • UV-Visible Spectroscopy |
| • Liquid Chromatography | • Electron Paramagnetic Resonance |
| • Fourier Transform Infrared Spectroscopy | • Mössbauer Spectroscopy |

Technical and computer skills:

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|---|--|
| • Technical writing (scientific papers and reports) | • Microsoft Office (Word, Excel, PowerPoint) |
| • Instrument specific data analysis packages | |

Professional Memberships

- American Chemical Society (2008 – present)
- Materials Research Society (2011 – present)