

Sarah Weiss
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EDUCATION

Massachusetts Institute of Technology, Class of 2014

Candidate for Bachelor of Engineering in Biological Engineering

GPA: 4.9 / 5.0

Relevant classes: Organic Chemistry I; Genetics; Thermodynamics of Biomolecular Systems; Laboratory Fundamentals in Biological Engineering; Intro to Neuroscience

Edina High School, Class of 2010

GPA: 13.1 (12 pt. scale)

ACT: 35 (composite)

National Merit Scholar Finalist

EXPERIENCE

Medtronic: Neuroengineering Group

Minneapolis, MN

Summer Associate

June 2011 – August 2011

- Created a computerized spiral drawing diagnostic test to measure the severity of multiple symptoms of Parkinson's disease
- Analyzed biological data, and helped define quantifiable metrics for determining efficacy of a treatment for overactive bladder syndrome
- Reviewed EEG data from a hibernating bear, created a viewing tool to extract spectrogram data in addition to raw traces

Massachusetts Institute of Technology: Wilson Lab

Cambridge, MA

Research Assistant

February 2011 - Present

- Trained rats in behavioral tasks for the purpose of examining the role of auditory cues in the development of memories during sleep
- Performed perfusions as well as basic histology work
- Imaged brain slices at various fluorescent levels to confirm localization of injections in specific brain areas

University of Minnesota: Newman Lab

Minneapolis, MN

Lab Technician

June 2010 - August 2010

- Experienced handling lab animals (rats, mice) and giving injections
- Aided with in vivo experiment preparation for lab animals undergoing cannulation and tracheotomy, as well as maintenance during experimentation (blood gas analysis)
- Helped with the utilization of various imaging technologies (SPECKLE and line scans), as well as with ERGs (electroretinograms)

ACTIVITIES

Massachusetts Institute of Technology

- Wilson Lab Research Assistant (Jan 2011 – present)
- MIT Undergraduate Practice Opportunities Program (Oct 2011-Present)
- Varsity Swim Team Member (September 2010 – present)
- InnoWorks Board Member (September 2011 – present)

SKILLS

- **Programming:** Experience in MATLAB, Python
- **Lab:** Handling lab animals, performing behavioral training, giving injections, imaging with confocal microscopes, surgery assistance
- **Foreign Languages:** French