

# Elizabeth Rowland

erowland@mit.edu • 479 Commonwealth Ave, Boston MA 02215 • (215) 285-0636

---

- Education:** **Massachusetts Institute of Technology** **Cambridge, MA**  
*Candidate for BS: Biological Engineering*  
*Candidate for Minor: Management*  
Current GPA: 4.5/5
- New Hope-Solebury High School** **New Hope, PA**  
GPA: 100.5/100  
*June 2009*
- Johns Hopkins University** **Baltimore, MD**  
Summer University  
*July 2008*
- *Introduction to Biological Molecules:* lectures and lab exposure in basic biological and genetic modification techniques
  - *Oral Presentations:* instruction and execution of various public presentations & speeches
- University of Pennsylvania** **Philadelphia, PA**  
Summer Academy in Applied Science and Technology  
*June-July 2007*
- *Biotechnology Program:* providing introductory lecture and lab exposure to biotechnology
- Experience:** **MIT Undergraduate Research Program** **Cambridge, MA**  
Research Assistant  
*September 2010-present*
- Evaluate capabilities and performance of the CometChip- a high-throughput comet assay platform for detecting DNA damage and repair
  - Analyze DNA damage and repair pathways from various environmental agents *in vitro*
  - Beginning *in vivo* analysis of homologous recombination in mice
- Breakaway Technologies, Inc.** **Yardley, PA**  
Intern for technology consulting firm  
*June-August 2010*
- Provided assistance with training material organization/distribution, support for internal reporting and data collection projects
  - Tasks included: recording and organizing computer based training videos, creation of a time/expense OLAP model, data validation, report creation
  - Tools used: IBM Cognos TM1 (OLAP), SharePoint, Survey Monkey, Camtasia Studio, Office
- Activities:** MIT Society of Women Engineers - Girl Scout Outreach Chair
- Manage a \$3,000 budget bi-annually to bring in ~300 Girl Scouts to introduce them to science and engineering, and interact with female MIT students
- Alpha Phi Fraternity  
Girl Scouts - Lifetime Member
- Gold Award, Silver Award, and Bronze Award recipient
- Skills:** *Computer:* Microsoft Office, TM1, Camtasia Studio  
*Lab:* DNA extraction, PCR, cell culture, recombinant transformations, fluorescent microscopy  
*Relevant Coursework:* Laboratory Fundamentals in Biological Engineering, Thermodynamics of Biomolecular Systems, Analysis of Biomolecular and Cellular Systems, Biochemistry, Organic Chemistry, Genetics, Cell Biology, Introduction to Computer Science and Programming, Microeconomics, Management Communications