

Jessica Li

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Term Address:
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Education: **Massachusetts Institute of Technology** Cambridge, MA
Candidate for S.B. in Biological Engineering June 2013
Relevant coursework (Includes current coursework): Analysis of Biomolecular and Cellular Systems;
Molecular, Tissue, and Cell Biomechanics; Laboratory Fundamentals in Biological Engineering;
Thermodynamics of Biomolecular Systems; Differential Equations; Introduction to Computer Science
and Programming

Experience: **Massachusetts Institute of Technology** Cambridge, MA
Griffith Laboratory - Undergraduate Research Assistant January 2011 – present

- Modified bone regeneration scaffolds with growth factor and adhesion receptor ligands for better bone wound healing in the operating room
- Worked on producing binding protein sequences to bind growth factor to scaffold and perfecting protocol for phage display to be continued in fall 2011
- Performed Alamar Blue assay and determined number of cells and tracked cell movements on clinical TCP scaffolds using IMARIS

Massachusetts Institute of Technology Cambridge, MA
Introduction to Molecular Biology Techniques (IAP Course) January 2010

- Isolated and made preliminary characterization of a novel bacterial virus, and identified bacterial strains by 16S rRNA sequence analysis
- Techniques used: CsCl density gradient preparation and ultracentrifugation, genomic DNA extraction and purification, DNA restriction digests and Agarose gel electrophoresis, oligonucleotide design and PRC, DNA cloning and bacterial transformation

Massachusetts Institute of Technology Cambridge, MA
Women's Technology Program - Residential Assistant June 2010 – August 2010

- Maintained a warm community in the dorm and advised students on residential issues
- Organized 8 sightseeing trips into Boston for 40 students
- Assisted students in lab during Motor Building project

Leadership: **MIT Society of Women Engineers: VP Campus Relations** December 2010 – present

- Act as the liaison between MIT and MIT SWE by overseeing the planning of events centered on forming professor-student and peer-to-peer relations
- Allocate funds within the Campus Relations section
- Manage 10 chairs and ensures each pair of co-chairs plans 2-3 interesting and unique events per semester, follows the deadlines associated with the events, and stays within the budget

Academics: Associate Advisor of first-year students at MIT September 2010 – May 2011

- “Genes in the News” seminar advising, which meets once a week for 2 hours
- Advise students on adjusting to college life and academics at MIT

MIT Alpha Chi Omega Sorority: Chi Connections Committee January 2011 – May 2011

- Plan sister bonding activities during informal chapter meetings with 4 other committee members

Skills: **Foreign Languages:** Fluent in Mandarin Chinese, Basic understanding of French
Computer: Programming in Python

Interests: Violin, Volleyball, Debate, Dancing, Cooking, Travel