

JEAN FANG

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EDUCATION

Massachusetts Institute of Technology (MIT) Cambridge, MA
Candidate for B.S. Chemical Biological Engineering 2013, GPA: 4.5/5.0
Relevant Coursework: Chemistry, Thermodynamics and Kinetics, Biology, Multivariable Calculus, Differential Equations. (Spring 2011: Chemical and Biological Engineering Thermodynamics, Organic Chemistry, Fluid Mechanics)

Phillips Academy Andover Andover, MA

EXPERIENCE

Institute for Soldier Nanotechnologies (MIT) Cambridge, MA
Undergraduate Researcher January 2010 - Present

- Develop a bandage coating to rapidly deliver hemostatic agents, antimicrobial drugs, and other trauma relief agents to wounded soldiers
- Designed and evaluated the efficacy of coatings against bacteria
- Recent publication in Wiley's journal *Small*

Educational Studies Program (MIT) Cambridge, MA
SATPrep Teacher February 2010 – Present

- Teach SAT Critical Reading section to 70 high school students on a weekly basis
- Developed curriculum and assignments for over 30 classes
- Ranked 3rd for class preparation and subject understanding; ranked 5th for overall best quality of teaching by student survey (out of 18 teachers)

Marine Biological Laboratory (MBL) Woods Hole, MA
Laboratory Assistant June-August 2007, 2008, 2009

- Provided technical laboratory support for the Oceanic Flux Program
- Analyzed deep ocean sediment for chemical components; pioneered the lab's new photo analysis technique for quantification of organic particulate flux
- Presented findings at the 2010 American Geophysical Union Ocean Sciences Meeting

SKILLS

Computing: Windows Office, some Java and MATLAB

Laboratory Techniques: Atomic force microscopy (AFM), High performance liquid chromatography (HPLC), Coulometry, Attachment Assay (esp. with *S.aureus*, *E.coli*), Profilometry, Contact Angle, Layer-by-layer assembly techniques

LEADERSHIP

Department of Theater and Dance (Phillips Academy) Andover, MA
DramaLab Producer April 2008 – June 2009

- President of largest student run theater group
- Assisted in the production of over 150 student directed short plays/skits, responsible for facilitating student-faculty communication
- Stage managed parents weekend talent show, fundraised \$4000