Jean Fang

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Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) — **CAMBRIDGE, MA**
Candidate for S.B. Chemical Biological Engineering — May 2013
GPA 4.3/5.0

PHILLIPS ACADEMY ANDOVER — **ANDOVER, MA**
Graduated with Distinguished Achievement — June 2009

Experience

DR. REDDY'S LABORATORIES, LTD. — **HYDERABAD, INDIA**
Project Trainee, Integrated Product Development — June – August 2012

- Pioneered the use of continuous crystallization modeling for development group
- Developed a continuous process for the crystallization of an active pharmaceutical ingredient (API)
- Presented model and process to engineering team, project managers, and Executive Vice President of Integrated Product Development

NOVARTIS – MIT CENTER FOR CONTINOUS PROCESSING — **CAMBRIDGE, MA**
Undergraduate Researcher/Co-Author — September 2011 – June 2012

- Conducted experimental investigations on the use of thin-film compaction to develop a more cost-effective tablet manufacturing process
- Mapped the relationships between chemical formulations and the chemo-mechanical properties of thin films to determine process viability
- Publication in preparation: "Multiple Candidate Thin-Film formulations for Tablet-Manufacturing – Issues and Analyses"

CORNELL UNIVERSITY DEPARTMENT OF FOOD SCIENCE — **ITHACA, NY**
Food Science Summer Scholar — June – August 2011

- Researched the effects of nanoscale surface features on the attachment behavior of *L. innocua* for food processing and safety applications
- Developed MATLAB code to quantify bacterial attachment based on fluorescence microscopy, perform attachment, and live/dead assays
- Presented summer research and results to the Cornell University Department of Food Science

INSTITUTE FOR SOLDIER NANOTECHNOLOGIES — **CAMBRIDGE, MA**
Undergraduate Researcher/Co-author — January 2010 – June 2011

- Developed a bandage coating to rapidly deliver hemostatic agents, antimicrobial drugs, as well as several other trauma reliefs that can potentially be used to heal wounded soldiers.
- Designed and evaluated the efficacy of coatings against bacteria through such and such processing.
- Work published in *Advanced Materials, Journal of Controlled Release, Biomaterials, Small*, and described in *Forbes*: http://www.forbes.com/sites/johnfarrell/2012/01/10/biological-sponges-could-prevent-battlefield-deaths/

Leadership

Society of Women Engineers: Region F Collegiate Communications Editor, MIT SWE Secretary, SWE Region F Conference Director (2011-2012)

American Institute of Chemical Engineers (MIT Chapter): Vice President, 2011 National Student Paper Competition: Second Place

Alpha Chi Omega Sorority: Vice President of Membership Programming

Skills & Interests

Skills: Public speaking, Event planning, MSMPR modeling, Thin-film casting, Assorted bacteria assays, AFM, SEM, HPLC
Interests: Cooking, theater, teaching, reading, running