Permanent Address:
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Liza C. Xu

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University Address:
305 Memorial Drive
Cambridge, MA 02139

Education

Massachusetts Institute of Technology — **Cambridge, MA**

Candidate for Bachelor of Science in Chemical Engineering, GPA: 4.7/5.0 — June 2013

Relevant Coursework: Chemical and Biological Engineering Thermodynamics, Fluid Dynamics, Transport Processes, Separation Process Design, Chemical and Biological Reactor Design

Minor in Chinese Language

Work Experience

Genentech — **South San Francisco, CA**

Operations Rotational Development Program Intern — June 2012 – August 2012

- Studied novel method for measuring chromatography resin slurry composition to make column packing more efficient and accurate
- Examined the effects of flow rate on HETP and asymmetry while determining column bed stability
- Presented results to Pilot Plant leadership team and at a company-wide intern poster session

Olsen Lab, Massachusetts Institute of Technology — **Cambridge, MA**

Undergraduate Researcher — Feb. 2011 – Present

- Led to coauthored publication in ACS Biomacromolecules (C. Thomas *et al*., Biomacromolecules.)
- Self-assembled hybrid block copolymer systems under various conditions using layer-by-layer solvent evaporation and spin coating methods to examine effect of preparation conditions on morphology
- Studied effect of additives on protein systems for increased stabilization and activity
- Presented results to 9 colleagues during three lab meetings

Hong Lab, College of Pharmacy, University of Illinois — **Chicago, IL**

Undergraduate Researcher — June 2010 – Aug. 2010

- Analyzed self-assembled amphiphilic block copolymer aggregates to verify their compatibility with human body for use as nanoparticle anti-cancer drug delivery vehicles
- Completed scientific report summarizing results and presented work at final conference for 30 people

Leadership

Society of Women Engineers (SWE), MIT — **Cambridge, MA**

President — Dec. 2011 - Present

- Oversee a 8 person executive team and 32 person planning board
- Complete quarterly reports describing the state of the collegiate section
- Organize and lead biweekly executive meetings and board meetings

VP Membership & Information — Dec. 2010 – Dec. 2011

- Trained and oversaw 8 planning board members to host events geared towards membership recruitment and development
- Worked with 7 executive board members to keep MIT SWE a highly influential organization on campus

MIT Fall Career Fair — **Cambridge, MA**

Week-of-Logistics Director — May 2011 – May 2012

- Negotiated hotel accommodations and transportation for 350 visiting companies
- Scheduled 29 information sessions and company panels along with interview day logistics
- Organized networking luncheon for top sponsors and selected students, resulting in 200 attendees

Chinese Students Club, MIT — **Cambridge, MA**

President — April 2012 - Present

- Oversee a 17 member executive board to host a variety of cultural and social events across campus
- Collaborate with Institute staff to receive funding and support for events

Treasurer — April 2011 – April 2012

- Recorded and followed monetary transactions of the organization
- Drafted funding proposals to receive $1200-$1800 from the Institute

Skills

Computer: Microsoft Office, Adobe Photoshop, Basic MATLAB
Technical: UV Vis, CD, FTIR, native protein purification, RAFT polymerization
Language: Conversational Mandarin Chinese, Intermediate proficiency in Spanish