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Jennifer Hsu

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EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
Candidate for Bachelor of Science in Chemical-Biological Engineering — Class of 2014
GPA: 5.0/5.0
Relevant coursework: Fluid Mechanics, Thermodynamics, Organic Chemistry, Biological Chemistry, Experimental Biology, Cell Biology, Genetics, Differential Equations, Microeconomics, Undergraduate Practice Opportunities Program (UPOP)

Harvard University — Cambridge, MA
Coursework: Multivariable Calculus, Linear Algebra — Fall 2008 – Spring 2009

EXPERIENCE

Sandia National Laboratories (Center for Integrated Nanotechnologies) — Albuquerque, NM
Summer Student Intern — Summer 2011
- Patterning and functionalization of silicon wafer surfaces with click chemistry
- Characterization of stamped surfaces with atomic force microscopy (AFM), ellipsometry, and contact angle goniometry
- Synthesis and separation of organic block copolymers

Langer Lab at MIT — Cambridge, MA
Undergraduate Researcher — January 2011 – May 2011, September 2011 – January 2012
- Synthesized, extracted, and measured nanoparticles loaded with siRNA
- Grew and transfected HeLa cells to test efficacy in drug delivery
- Analyzed data after running zeta potential, dual-glo, and ribogreen assays

Center for Ocean Engineering at MIT — Cambridge, MA
Summer Intern — Summer 2009
- Taught and created instructional videos about simple submersibles to make robotics more accessible to younger students

LEADERSHIP

Secretary, **Women's Independent Living Group** — MIT
- Keep detailed records of announcements and meetings and provided input for future improvements — January 2012 – Present
- Maintained correspondences within community members and with outside organizations

Treasurer, **MIT Outing Club** — MIT
- Managed financial resources through acquiring funding, rentals, reimbursements, and real estate property costs — May 2011 – Present
- Promoted outdoor recreational activities to student body

Webmaster and team member, **Pistol Team** — MIT
- Women's air pistol, 2nd place junior in state, 2010-2011; 3rd place team at collegiate nationals, 2011 — September 2010 – Present
- Women's sport pistol, 1st place junior in state, 2011; 3rd place team at collegiate nationals, 2011

Subdirector and Film Projectionist, **Lecture Series Committee** — MIT
- Projected movies on weekends using theatre equipment — September 2010 - Present

Captain, **National Ocean Sciences Bowl Team** — Lexington High School
- Recruited new members, ran practices, organized team information, and decided competing team members — 2007 – 2010
- 2nd place team in nation, 2009

Engineering Captain, **Science Olympiad Team** — Lexington High School
- Ran practices; organized and distributed resources; and communicated between coach, teachers, and students — 2008 – 2010
- 2nd place team in state; 1st place in Dynamic Planet event, 1st place in Electric Vehicle event, 2009

Professional Memberships: Society of Women Engineers, American Institute of Chemical Engineers, Society for Biological Engineering

SKILLS

Hands-on equipment/machinery: column filter, reflux distillation, rotovap, optical microscope, atomic force microscope (AFM), ellipsometer, goniometer, cell culture work (*E. coli* and *HeLa* cells), drill press, mill, lathe, band saw, basic blacksmithing
Software: Apple, Windows, and Linux OS; Adobe Creative Suite (Photoshop, Illustrator, InDesign, Flash, Dreamweaver); and Microsoft Office Suite (Word, PowerPoint, Excel)
Programming: MATLAB, Java, C++, and basic HTML/CSS
Language: conversational Mandarin and Cantonese; and intermediate French