

Nancy Lu

Room 141D Burton-Conner, 410 Memorial Dr. * Cambridge, MA 02139 * Email: nancy.lu@mit.edu * Phone: 813-951-8357

EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

Candidate for a Bachelor of Science in Chemical Engineering; **GPA-4.8/5.0**

June 2016

- **Relevant Courses:** Introduction to Chemical Engineering & MatLab, Differential Equations, Physics I & II

EXPERIENCE

MIT, Shoulders Lab, Chemistry Department

Cambridge, MA

Undergraduate Researcher

September 2013- Present

- Quantified endoplasmic reticulum (ER) Proteome Folding in mammalian cells using biochemical techniques such as applications of recombinant DNA technology, cell culture basics and bioluminescent assays
- Implemented bioluminescence resonance energy transfer (BRET) experiments with NanoLUC Luciferase and Renilla Luciferase to determine protein-protein interactions in living cells to determine the unfolded protein response (UPR) in human cells

Center of Investigation & Advanced Studies of the National Polytechnic Institute, Mathematics Department

Mexico City, Mexico

Research Assistant

June 2013-August 2013

- Simulated an artificial stock market using real-world data from the Foreign Exchange (Forex) market to determine the best trading strategy
- Designed and built an Agent-Based Artificial Stock Market Model that contained a business school component coded in Python to be used in further simulations and experimentation in order to validate or disprove current market hypothesis
- Collaborated with other researchers to determine the technical indicators and variables needed to model an artificial stock market

MIT LEADERSHIP

Office of Undergraduate Advising and Academic Programming, Associate Adviser

August 2013-Present

- Initiate and maintain positive relationships with advisees, monitor the academic progress and well-being of advisees, listen attentively to student concerns and questions, organize group-bonding events and assist with time management, test-taking, and study skills

MedLinks, Burton-Conner Medlink Representative

October 2012-Present

- Provide support to the MIT undergraduate student community of 4,000 on nutrition, mental health, and other health issues by giving advice, first-aid, over-the counter medication and information about resources and MIT Medical

MIT ACTIVITIES

Undergraduate Giving Campaign, Class of 2016 Team Member

October 2012-Present

- Raised \$8,047 in the 2012-2013 academic year and \$4,197 in the fall semester of the 2013-2014 academic year
- Achieved 58% participation within the freshman class, which was higher than that of sophomores and juniors
- Publicized the Public Service Center (PSC) to MIT students in order to raise funds for public service grants given to students through class awareness events, emails, posters, and promotional tables

Division I Women's Varsity Lightweight Crew, Coxswain

September 2012-Present

- Led and motivated athletes while steering, ensuring the safety of the athletes, and making decisions under pressure during high-intensity regattas;

SKILLS

Foreign Languages: Conversational Vietnamese, Working Proficiency in Spanish