

Campus Address
500 Memorial Drive
Cambridge, MA 02139
(978) 844-6187

Patrick Wu

p_wu@mit.edu

Home Address
3 Kennedy Lane
Acton, MA 01720
(978) 263-6910

Education **Massachusetts Institute of Technology (MIT)**

Cambridge, MA

- Candidate for B.S. in Biological Engineering with a Management Science minor, June 2011
- Current GPA: 4.8/5.0
- Coursework includes Lab Fundamentals in Biological Engineering, Thermodynamics of Biomolecular Systems, Organic Chemistry, General Biochemistry, Cell Biology

Experience **National Taiwan University, College of Medicine**

Taipei, Taiwan

Summer Research Intern

June 2009 – August 2009

- Lab focused on the study of the schizophrenic brain using mice as a model for humans
- Investigated differences in GABAergic neurons populations in the olfactory bulb glomerular layer of wild type and schizophrenic mice, using mutant neuregulin-1 mice as a schizophrenic model
- Sliced and mounted paraformaldehyde-fixed paraffin-mounted mouse olfactory bulbs on microscope slides, and performed immunohistochemistry staining and photography under a brightfield microscope

Langer Lab, MIT

Cambridge, MA

Research Student

January 2009 – May 2009

- Investigated the effectiveness of lipidoid compounds when used to perform DNA transfection
- Prepared and screened over 600 lipidoids at preliminary stages of experiment and identified several compounds with high transfection efficiency
- Conducted mammalian cell culture, gene transfection, and luciferase enzymatic assay using a fluorescent plate reader
- Synthesized lipidoids based on preliminary results to find more effective transfection compounds

Leadership **MIT Table Tennis Club**

Cambridge, MA

Activities President

September 2008 – Present

- Requested and managed \$1600 of club funding used to organize MIT's intercollegiate teams, purchase club equipment, and hire coaches
- Organized and directed the MIT Fall Open 2008 and MIT Spring Open 2009, raising over \$1000 total from these tournaments
- Maintained club website with schedule updates and new tournament information

MIT Residence Based Advising Program

Cambridge, MA

Resident Associate Advisor (RAA)

August 2008 – Present

- Monitored academic progress and overall well-being of eight freshmen advisees
- Worked with primary freshmen advisor to managed \$700 of advising funds to run events for the advising group throughout the academic year to facilitate group cohesion
- Organized monthly dorm-wide informational and stress-relief events for freshmen with other RAAs

MIT Varsity Pistol Team

Cambridge, MA

Team Member

September 2007 – May 2009

- Achieved gold medal (Men's Air Pistol) and silver medal (Men's Free Pistol) in the 2009 Massachusetts State USA Shooting Junior Olympic Shooting Championships
- Competed in the 2009 National Rifle Association Intercollegiate Pistol Championships as a member of the 1st place free pistol team, 3rd place air pistol team, and 3rd place overall team.
- Mentored new, inexperienced shooters
- Wrote the MIT Sport Pistol Club constitution after team lost varsity status and obtained club status

MIT Technology Fair

Cambridge, MA

Logistics Committee Member

September 2007 – May 2008

- Contacted and scheduled shipping, storage, and moving services to coordinate package movement from a record 89 companies to the fair venues
- Directed TechFair members to deliver packages to company booths prior to the event and to assist companies with package shipment after the fair

Skills

- **Computer** – Windows OS, MS Word, MS PowerPoint, Python
- **Languages** – English (fluent), Mandarin (intermediate), Spanish (basic)