

# Lang Yang

Address: Room 1-249, 77 Massachusetts Ave., Cambridge, MA 02139

Email: [langyang@mit.edu](mailto:langyang@mit.edu)

Phone: (617)252-1111

---

## EDUCATION

---

### Massachusetts Institute of Technology

Ph.D. Student in CEE Systems Program

GPA: 4.8/5.0

Cambridge, MA

June 2011, expected

- Graduate Fellowship/Research Assistant, Intelligent Transportation System (ITS) Lab

### Tsinghua University

Master in Transportation Engineering

GPA: 92.9/100(Ranking 1/60)

Beijing, China

June 2006

- Excellent Graduate Scholarship
  - Teaching Assistant, Traffic Control Theory & Transportation Planning
  - Bachelor in Civil Engineering
  - GPA: 91.2/100(Ranking 1/112)
  - Top 1st Scholarships in Four Years
  - National Prize of Chinese Education Foundation of Science and Technology
  - Excellent Graduate Award of Tsinghua University
- 

## EXPERIENCE

---

### MIT ITS (Intelligent Transportation System) Lab

Research Assistant

Cambridge, MA

Sep 2007 – Now

- Stated Preference (SP) Survey Design: Developed and tested large-scale SP survey in Lisbon for MIT-Portugal project, implemented fractional factorial experimental design, and applied discrete choice models for travel mode and departure time choices
- Traffic Micro-Simulation: Revised car-following models to capture stochastic intersection delay due to the conflict of cars, pedestrians and bicycles, and implemented in MITSIMLab software developed by ITS lab

### Construction Corporation in China

Structure Design Internship

Beijing, China

June 2003 – August 2003

- Floor Layout: Revised part of the floor layout of a new business building, and investigated the functional needs of potential business customers
- Mechanics Design: Calculated the mechanical process of a steel roof beam under normal conditions, earthquake, and strong storm

### Research Publications

- Total 15 papers: Yang, L., Abreu, J., Choudhury, C.F., Ben-Akiva, M. (2009), 'Dealing with large number of travel modes in stated preference survey', International Conference on Travel Behavior Research, Jaipur, India (in process); Jiao, P.P., Lu, H.P., Yang, L. (2005), 'Study on estimation of dynamic origin-destination flows in freeway corridors', IEEE International Conference on Networking, Sensing and Control, Tucson, Arizona, US; etc.
  - Writing research proposal about transportation project evaluation and equity, funded by National Science Foundation of China, 2005
- 

## SKILLS

---

- Mathematics: Network Optimization, Math Programming, Dynamic Programming, Applied Probability, Econometrics, Demand Modeling, Advanced Demand Modeling
  - Programming: C/C++, C#, MATLAB, SAS, Linux/Unix, Database
  - Language: Fluent in English, Native in Mandarin Chinese
- 

## LEADERSHIP

---

- Co-organizer, Seminar on Urban Mobility in the World: Challenge and Prospect, by City on the Move, France and Tsinghua University, China
  - Officer of graduate dormitory, Ashdown House at MIT
  - Co-chair, MIT Chinese Students and Scholars Association, Career Academic Development
- 

## INTERESTS

---

Tennis, Skiing, Swimming, Drama Acting