

YING LIU

Department of IOMS, Operations Management Group
New York University, Stern School of Business
44 West 4th St, KMC 8-154
New York, NY 10012

Email: liuying0519@gmail.com
Mobile: (267) 994-1145
Office: (212) 998-0084
<http://pages.stern.nyu.edu/~yliu2/>

EDUCATION

- New York University**, New York, NY
Ph.D. in Operations Management (GPA 3.92/4.0) July 2016, expected
Advisor: René Caldentey
- University of Pennsylvania**, Philadelphia, PA
M.S. in Systems Engineering (GPA 3.95/4.0) May 2010
Advisor: Monique Guignard-Spielberg
- Zhejiang University**, Hangzhou, China
B.S. in Electrical Engineering June 2007

COURSEWORK/ SKILLS

- **Coursework:** Probability, Stochastic Processes, Optimization, Dynamic Programming, Optimal Control, Microeconomics, Game Theory, Statistical Learning
- **Programming:** Python (NumPy, SciPy, Pandas, Scikit-learn, Matplotlib), R, Matlab, SQL
- **Languages:** Chinese (Native), English (Professional Proficiency, Certified English/Chinese Interpreter)

RESEARCH

- **Revenue management and price optimization**
Task: Built mathematical model to help firms maximize their revenues.
Publication:
Intertemporal Pricing under Minimax Regret. (René Caldentey, Ying Liu and Ilan Lobel. Accepted by *Operations Research*).
Dynamic Pricing for Vertically Differentiated Products. *Soon to be submitted.* (René Caldentey and Ying Liu)
Robust Pricing in Discrete Time. *Soon to be submitted.* (Ying Liu)
- **Modeling consumer behavior using transaction data from a retail chain.**
Task: Performed end-to-end modeling including data cleaning, aggregation, in-depth analysis, and developing machine learning algorithms. My algorithm improves the prediction accuracy by lowering root-mean-square error (RMSE) by 15% compared to the state of the art.

PROFESSIONAL EXPERIENCE

- **Revionics**, New Haven, CT *Summer 2013*
Summer intern in Revionics' research team
Helped the team model and predict consumer choice behavior for a retail chain by using multinomial logit model
- **New York University**, New York, NY
Instructor of the course *Operations Management* (Evaluation: 6.2/7.0) *Summer 2013*
Teaching assistant for a master degree course *Business Analytics* *2014-2016*
Teaching assistant for MBA and EMBA courses *Operations Management* *2010-2015*
- **Agricultural Bank of China**, Shenzhen, China *Summer 2010*
Summer analyst in International Business Department

ACADEMIC HONORS AND AWARDS

- W. Edward Deming Fellowship, Stern School of Business, New York University, 2014-2015
- NYU-Stern Letter of Commendation for Teaching Excellence, 2013
- PhD Fellowship, Stern School of Business, New York University, 2010-2014
- Graduate Student of Honor, Zhejiang University, China, 2007