Jongbin **Jung**

Decision/Risk Analyst · Data Scientist · Software Engineer

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Education

Stanford University, Management Science and Engineering — *Stanford, California*
Ph.D. Candidate in Decision Analysis and Computational Social Science — *2014 — Present*

Yonsei School of Business — *Seoul, South Korea*
M.S. in Operations Research — *2011 — 2014*

Yonsei School of Business — *Seoul, South Korea*
B.A. in Business Administration (Minor in Computer Science) — *2005 — 2011*

Skills

	Decision/Risk Analysis, Optimization, Probabilistic Modeling
Programming	Python, R, Go, C/C++, Julia, MATLAB, Java, and more
Languages	Fluent in English and Korean

Experience

Google — *Mountain View, California*
Quantitative Analyst Intern — *Jun. 2016 — Sep. 2016*

- Helped modernize content recommendation scoring models, which resulted in more than 3% increase in recommendation CTR

Stanford Data Science Drop-in — *Stanford, California*
Volunteer Consultant — *Sep. 2014 — Apr. 2015*

- Provided technical consulting for data collection, manipulation, and analysis to Stanford graduate students in social science
- Topics ranged from data collection via web scraping with `Python`, building and interpreting results from statistical models with R, and refactoring/parallelizing `Python`/R code for efficiency

International Affairs Office, Yonsei School of Business — *South Korea*
Database Management and IT Support — *Apr. 2011 — Apr. 2014*

- Designed and implemented college-wide database web frontend for managing international accreditation processes and academic/industrial partner relationships
- Automated the majority of paperwork by writing customized script to generate formatted Microsoft Word/Excel documents

The E-land Group — *China*
Intern Consultant — *Jul. 2010 — Sep. 2010*

- Conducted market research and developed strategies for penetration, marketing, and operations in the Chinese beverage market (Beijing and Shanghai)
- Presented results to chief executives, leading to actual initiatives for a long-term strategic partnership, as recommended

TWisT (Project group) — *South Korea*
Software Engineer — *Sep. 2009 — Dec. 2009*

- Built and maintained custom hardware/software interface libraries in C++
- Developed and implemented shortest path maze solving algorithms for a prototype drone

Aviation Command Center, R.O.K. Army — *South Korea*
Sergeant, Ground Transportation Division (Compulsory Military Service) — *May. 2007 — Apr. 2009*

- Optimized tactical scheduling of daily operations for 200+ ground transportation vehicles using resource allocation models
- Managed supply chain for war-time deployment of special purpose equipment

Teaching

R and `python` crash course, MS&E — *Stanford, California*
INSTRUCTOR — *Oct. 2016*

- Instructed crash course for non-technical Stanford graduate students, teaching visualization in R with `ggplot2` and `python` programming

R tutorial for Computational Social Science, MS&E — *Stanford, California*
INSTRUCTOR — *Jan. 2016*

- Instructed 2-day tutorial for Stanford graduate students, teaching R basics, data manipulation, visualization, and statistical modeling

Computational Social Science Workshop at Stanford — *Stanford, California*
INSTRUCTOR — *Sep. 2015*

- Held 2-day workshop teaching `python` and web scraping

Data Science Tutorial — *Stanford, California*
INSTRUCTOR — *Apr. 2015*

- Offered introductory tutorials to data manipulation with R and web scraping with `python`

Stanford, Management Science and Engineering — *Stanford, California*
COURSE ASSISTANT — *Jan. 2015 to Present*

- Course assistant for courses at Stanford: MS&E 125 (Applied Statistics), MS&E 211 (Linear & Nonlinear Optimization), MS&E 231 (Computational Social Science), MS&E 252 (Foundations of Decision Analysis), and MS&E 352 (Professional Decision Analysis)

Publications

- *Developing a dynamic portfolio selection model with a self-adjusted rebalancing method*
  Jongbin Jung and Seongmoon Kim
  Forthcoming in Journal of the Operational Research Society. *(2016)*
- *An adaptively managed dynamic portfolio selection model using a time-varying investment target according to the market forecast*
  Jongbin Jung and Seongmoon Kim
  Journal of the Operational Research Society. *(2015)* Vol. 66., No. 7., pp. 1115–1131
- *Development and evaluation of a portfolio selection model and investment algorithm utilizing a Markov chain in the foreign exchange market*
  Jaeho Choi, Jongbin Jung and Seongmoon Kim
  Journal of the Korean Operations Research and Management Science Society. *(2015)* Vol. 40., No. 2.
- *Effects of additional constraints on performance of portfolio selection models with incomplete information: Case study of group stocks in the Korean stock market*
  Kyungchan Park, Jongbin Jung and Seongmoon Kim
  Korean Management Science Review. *(2015)* Vol. 32. No. 1., pp. 15–33.
- *Development and evaluation of a portfolio selection model and investment algorithm in foreign exchange market*
  Jaeho Choi, Jongbin Jung and Seongmoon Kim
  Journal of the Korean Operations Research and Management Science Society. *(2014)* Vol. 39., No. 2., pp. 83–95.
- *Performance of Markowitz's portfolio selection model over the accuracy of the input parameters compared to mutual funds in Korea*
  Hongseon Kim, Jongbin Jung and Seongmoon Kim
  Journal of the Korean Operations Research and Management Science Society. *(2013)* Vol. 38., No. 4., pp. 35–52.
- *Developing an investment framework based on Markowitz's portfolio selection model integrated with EWMA: Case study in Korea under global financial crisis*
  Kyungchan Park, Jongbin Jung and Seongmoon Kim
  Journal of the Korean Operations Research and Management Science Society. *(2013)* Vol. 38., No. 2., pp. 75–93.
- *Development and evaluation of an investment algorithm based on Markowitz's portfolio selection model: An investigation of the U.S. and Hong Kong Stock Market*
  Jaeho Choi, Jongbin Jung and Seongmoon Kim
  Korean Management Science Review. *(2013)* Vol. 30., No. 1., pp. 73–89.