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Education

Stanford University, Management Science and Engineering

Ph.D. Candidate in Decision Analysis and Computational Social Science

Yonsei School of Business

M.S. IN OPERATIONS RESEARCH

Yonsei School of Business

B.A. IN BUSINESS ADMINISTRATION (MINOR IN COMPUTER SCIENCE)

Stanford, California

2014 — Present

Seoul, South Korea

2011 — 2014

Seoul, South Korea

2005 - 2011

Skills

Data Analytics, Decision/Risk Analysis, Causal Inference, Optimization, Probabilistic Modeling

R, Python, Go, C/C++, Julia, MATLAB, Java, and more **Programming**

Languages Fluent in English and Korean

Research Projects _____

Bayesian sensitivity analysis for offline policy evaluation

Jul. 2016 - Present

- · Proposed a Bayesian method for measuring sensitivity of heterogeneous treatment effect estimates to ignorability assumptions
- Methods were implemented using R and Stan

Interpretable Heuristics for Policy Decisions

Jul. 2014 - Jul. 2016

- Designed and tested a heuristic for pretrial release that would let the district attorney's office detain half as many defendants, while maintaining status quo rate of failure-to-appear
- Heuristics in the form of score cards– were derived from predictive models trained and tested using R and Python

Investment Portfolio Optimization

Mar. 2011 - Jun. 2014

· Collaborated with a group of experts in finance and optimization to develop practical, data-driven investment tools

Experience

Google QUANTITATIVE ANALYST INTERN

Google

Mountain View, California

Mountain View, California

Jun. 2017 — Sep. 2017

· Analyzed the effectiveness of multiple strategies for predicting long-term effects using short-term metrics from online experiment

Stanford University (in collaboration with PG&E)

RESEARCH ASSISTANT

Stanford, California Oct. 2016 - Mar. 2017

· Built machine learning tools using geo-spacial sensor data to improve detection of potential gas leaks

Jun. 2016 — Sep. 2016

· Achieved up to 3% increase in recommendation CTR in experiments by streamlining content recommendation scoring models

International Affairs Office, Yonsei School of Business

DATABASE MANAGEMENT AND IT SUPPORT

South Korea

South Korea

South Korea

Apr. 2011 — Apr. 2014

· Reduced accreditation turnaround time from months to days by designing and implementing a department-wide database system

The E-land Group China

INTERN CONSULTANT Jul. 2010 — Sep. 2010

· Developed strategies for penetration, marketing, and operations in the Chinese beverage market (Beijing and Shanghai)

TWisT (Project group) SOFTWARE ENGINEER

• Built and maintained custom hardware/software interface libraries for a prototype path-finding drone in C++

Aviation Command Center, R.O.K. Army

SERGEANT, GROUND TRANSPORTATION DIVISION (COMPULSORY MILITARY SERVICE)

May. 2007 - Apr. 2009

Sep. 2009 — Dec. 2009

· Managed supply chain for war-time deployment of special purpose equipment

DECEMBER 8, 2017 JONGBIN JUNG · CURRICULUM VITAE



R and python crash courses, MS&E

INSTRUCTOR

Stanford, California

Jan. 2016 — Present

• Offering two-day crash courses each quarter for non-technical Stanford graduate students, teaching R basics, data manipulation, visualization, statistical modeling, and python programming for data science

Computational Social Science Workshop at Stanford

INSTRUCTOR

Stanford, California

Sep. 2015

• Instructed two-day workshop teaching data collection and manipulation in python

Data Science Tutorial

Stanford, California
Apr. 2015

INSTRUCTOR

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

Stanford, Management Science and Engineering

COURSE ASSISTANT

Stanford, California

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), MS&E 330 (Law, Order, and Algorithms), and MS&E 352 (Professional Decision Analysis)

Stanford Data Science Drop-in

VOLUNTEER CONSULTANT

Stanford, California

Sep. 2014 — Apr. 2015

· Available weekly to Stanford graduate students for consultation regarding quantitative research and analysis methods

Publications (selected)

• Simple Rules for Complex Decisions

Jongbin Jung, Connor Concannon, Ravi Shroff, Sharad Goel, and Daniel G. Goldstein arXiv prepint arXiv:1702.04690. (2017) Under review

• Creating Simple Rules for Complex Decisions

 ${\sf Jongbin\,Jung,Connor\,Concannon,Ravi\,Shroff,Sharad\,Goel,and\,Daniel\,G.\,Goldstein}$

Harvard Business Review. (Apr. 19, 2017) https://hbr.org/2017/04/creating-simple-rules-for-complex-decisions

Developing a dynamic portfolio selection model with a self-adjusted rebalancing method

Jongbin Jung and Seongmoon Kim

Journal of the Operational Research Society. (2017) Vol. 68., No. 7., pp. 766–779

 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