

# TAEHEE JUNG

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## EDUCATION

### University of California, Berkeley

Aug 2016 - May 2017 (*expected*)

- *Master of Arts: Statistics* | GPA: 3.76/4.0
- *Coursework: Machine Learning, Linear Models, Advanced Probability, Statistics, and Statistical Computing*

### Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea

Feb 2007 - Feb 2011

- *Bachelor of Arts: Management Science* | GPA: 3.71/4.3 | *Academic Excellence Scholarship (2007 - 2011)*

## EXPERIENCE

### UC Berkeley, Berkeley, USA

- **Data Mining with Recurrent Neural Network**, class project of Machine Learning Project Jan 2017 - **Present**
- **S&P 500 Stock Portfolio with Sentiment Analysis**, class of Capstone Project Jan 2017 - **Present**
  - Analyzed sentiment on Twitter for stock market prediction and developed autoregressive predictive models
  - Constructed a stock portfolio using Markowitz objective function with  $l_1$  penalty
- **Creating R package for MFA**, class project of Statistical Computing Nov - Dec 2016
  - Developed R package for Multiple Factor Analysis providing functions to perform mfa, bootstrap, and plot the results and visualized the sample results on Shiny app

### Korea Credit Bureau (KCB), Seoul, Korea

Dec 2010 - May 2016

#### Manager

- **Big, Public Data Analysis**, funded by Ministry of Government Administration and Jeonju City Sep - Dec 2015
  - Analyzed and visualized boarding histories, local floating population, petition documents, and home to office O/D information
  - Constructed new strategies for bus rearrangement and adopted by Jeonju city on Feb, 2017
- **Fraud Detection System Development**, funded by Woori Bank Dec 2014 - Aug 2015
  - Segmented customers' transaction histories and developed predictive ensemble models on regression, neural network, and decision tree
  - Compared with previous FDS, overall detection rate increases more than 20%

#### Associate Manager

- **Migrant Analysis for Magok New Town**, funded by LG Economic Research Institute Jun - Sep 2014
  - Developed demographic database of migrants and classified them using decision tree for potential cultural demand to the new town
- **Location based Decision Support System**, funded by Korea Credit Bureau & R114 May - Aug 2012
  - Developed an integrated database (e.g., location, real estate, residential's demographic and financial data) called *K-atlas*

#### Staff

- **Data Convergence & Statistical Analysis**, funded by Seoul City Dec 2010 - Feb 2011

### LG Electronics, Seoul, Korea

Jun - Jul 2010

#### Oversea Marketing Intern

- Surveyed and developed strategies for new market of Home Appliance department

### Electronic & Telecommunication Research Institute (ETRI), Daejeon, Korea

Dec 2008 - Feb 2009

#### Research Assistant

- Surveyed market research for ubiquitous health devices and predicted future demand using Bass model

## SKILLS

**Programming language:** R, SAS, SQL, Unix/Linux, Tableau, QGIS

**Language:** English (Fluent), Korean (Native), Spanish (Beginner)