

# RICHARD KIM

## CONTACT INFORMATION

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## RESEARCH INTERESTS

- Collective Intelligence
- Natural Language Processing
- Human-Computer Interaction
- Machine Learning
- Social Networks

## EDUCATION

### Harvard University, Extension School

*A.L.M. in Information Technology w/conc. Mathematics & Computation*

Expected Graduation: May 2016

GPA: 3.80/4.00

*Cambridge, MA*

### University of California, Los Angeles

*B.A. in Economics, Cum Laude*

December 2006

GPA: 3.67/4.00

Dean's Honors List (5 Semesters)

*Los Angeles, CA*

## RESEARCH EXPERIENCES

### *Oct. 2015 – Present* **Bayesian Peer Prediction Mechanisms**

*with David Parkes*

- Studied incentive mechanisms that rewards honest reporting of the agents' preferences
- Designed a new mechanisms to incentivize users in online crowdsourcing platform using Bayesian statistical models
- One of the first to incorporate Bayesian statistical modeling to design a new peer prediction mechanism, which are a class of mechanisms that uses correlation in user behavior to evaluate their responses

- Jul. 2015 – Oct. 2015*      **Latent Network and Stochastic Optimization**  
*with Pavlos Protopapas*
- Used Beta-Bernoulli process to infer latent network of user influence in Yelp Review Data
  - Tested stochastic optimization methods (i.e. simulated annealing and genetic algorithm) to find the key influencers in the network and compared their performance against the popular greedy algorithm
  - Utilized Harvard University's supercomputer, Odyssey, and parallel computation framework, Apache Spark, on Microsoft Azure

## TEACHING EXPERIENCES

- Fall 2015*      **Harvard AC290R Extreme Computing – Project Based High Performance Distributed and Parallel Systems**  
*Course Designer and Teaching Fellow*
- Fall 2015*      **Harvard CS109 Data Science**  
*Teaching Fellow*
- Fall 2014*      **Harvard CS50: Introduction to Computer Science**  
*Course Assistant*

## PROFESSIONAL EXPERIENCES

- Jan. 2011 – Jun. 2013*      **del Rey Global Investors**      Los Angeles, CA  
*Equity Research Analyst*
- Assisted in the launch and capital raising process when the firm began as a five member team start-up
  - Conducted fundamental research in publicly-listed Japanese companies by analyzing industry-trends and competitive dynamics, assessing the companies' business strategies, and building financial models for valuation
  - Interviewed over 100 Japanese corporate executives, board members, and investor-relations team as well as various industry sell-side analysts
- Jul. 2008 – Dec. 2010*      **Bank of Tokyo-Mitsubishi UFJ**      Los Angeles, CA  
*Credit Analyst*
- Monitored credit portfolio of term loans and line of credits to approximately 30 Japanese multi-national companies with North American headquarters in the Los Angeles area
  - Assessed the client companies' earnings/cash flow generation capabilities, liquidity, solvency and business strategies through interactions with local managements and financial models
- Jul. 2007 – Jul. 2008*      **Shinsei Bank**      Tokyo, Japan  
*Investment Banking Analyst*
- Conducted due diligence, assisted in term sheet negotiations, and drafted investment memoranda for presentation to the bank's investment committee

- Participated in over dozen leveraged financing transactions in Japan and Asia ex-Japan markets

## **PROFESSIONAL CREDENTIAL**

2011 - Chartered Financial Analyst (CFA)  
*Present*

## **TECHNICAL & LANGUAGE SKILLS**

**TECHNOLOGY**    Programming – Python, Javascript, Julia  
                          Web Development – Flask, Django, jQuery  
                          Scientific Computing – Numpy, Scipy, Pandas, NetworkX,scikit-learn, Spark  
                          MLlib  
                          Database – MongoDB, PostgreSQL, MySQL  
                          Parallel Computation – Apache Spark, mrjob

**LANGUAGE**        English (Native)  
                          Korean (Native)  
                          Japanese (Advanced)

## **PERSONAL INTERESTS**

- Japanese Language and Culture
- Swimming
- Photography