

Yilei (Rene) Li

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EDUCATION

Northwestern University

EVANSTON, IL

Master of Science in Analytics, GPA 4.0/4.0

Sep 2015—present (Dec 2016 Expected)

Databases & Info Retrieve, Optimization and Heuristics, Java/Python Programming, Classification, Clustering

Peking University

BEIJING, CHINA

Bachelor of Science in Statistics, GPA 3.3/4.0

Jul 2015

Relevant Courses: Applied Multivariate Statistical Analysis, Introduction to Computation, Data Structure, Operation Research, Time Series Analysis, Probability Theory, Mathematical Statistics, Stochastic Process, Artificial Intelligence.

SKILLS

Database: SQL(1+ year), BigQuery, MongoDB, Access

Analytics Programming: Python (1+ years), R (4+ years), MATLAB, C (1+ years), Java, SAS, Pentaho, CPLEX

Visualization: Gephi, Tableau

Software: Microsoft Office, Photoshop, AI

WORK EXPERIENCE

Motorola Mobility

CHICAGO, IL

Student Consultant

Oct 2015—present

- Cleaned and formulized 130GB+ data with BigQuery, imported and managed dataset on Google Cloud Platform.
- Performed PCA for dimension reduction, built random forest models to predict return classification.

Internet Credit Rating Start-up

BEIJING, CHINA

Data Science Intern, Risk Control Department

Mar 2015—Jun 2015

- Designed a social network model to identify good and bad credit users, enhancing the diagnostic accuracy by 30% in a test with 137,000+ real customers' data using R.
- Created and developed a credit scoring model for Meilishuo, one of China's leading ecommerce companies, and validated it with 1000+ customer data using Python.
- Extracted users' consuming data on leading ecommerce website from PostgreSQL and MongoDB, scraped contact information from API. Cleaned data and discovered key metric; presented results to risk control manager.

GE Healthcare

BEIJING, CHINA

Marketing Effectiveness Intern, Life Science Department

Aug 2014—Jan 2015

- Performed time series model on prequalified customer quantity and predicted the increase of leads volume in the next quarter. Proposed a plan to redistribute the budget accordingly.
- Identified a pattern of sales specialists' behavior of using the leads system with statistical testing and confirmed it with product sales. Suggested two possible solutions to increase the use of potential customer information.

RESEARCH & PROJECTS

Chicago Park District

CHICAGO, IL

Course Project: Relevance Analysis of Park Events and Crimes

Oct 2015—Dec 2015

- Calculated information entropy of crime change with information of event.
- Built a time-series model to forecast number of crimes.

Independent Research

BEIJING, CHINA

Bachelor's Thesis: Semi-Supervised Learning Methods for Classification on Social Networks

Apr 2015—Jun 2015

- Implemented label propagation algorithm in R in the context of social network.
- Simulated the algorithm with 10,000+ data and concluded some properties of the algorithm by studying simulation results with cross validation.

Independent Research under Supervisor

BEIJING, CHINA

Quantile Regression and Robustness Analysis, funded by Hui-Chun Chin and Tsung-Dao Lee Chinese Undergraduate Research Endowment

May 2013—Oct 2014

- Invented an original method of regression—hybrid quantile regression. Investigated its existence of solution and algorithms and simulated the method with R using 200 sampling data and 100 real-world data. Wrote a paper and submitted it to the Challenge Cup research competition. Organized weekly seminars, contacted supervisor and summarized progress.