BINGJING TANG

PERSONAL DATA

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EDUCATION

01/2013-05/2014 Johns Hopkins University, Baltimore, MD

MS in Applied Mathematics and Statistics GPA 3.97/4.0

09/2008-07/2012 Beijing Language and Culture University, Beijing, China

BA in Management and Information Systems GPA 92/100 Ranking 1/24

RESEARCH INTERESTS

Statistical Computing, Machine Learning, Bayesian Statistics, Monte Carlo Methods, etc.

RESEARCH & PROFESSIONAL EXPERIENCE

01/2015-present Statistical Analyst, Graduate School, Purdue University, Lafayette, IN

Constructed a survival analysis model to predict Ph.D. retention. Generated Tableau dashboard. Performed Ad Hoc Analysis and validated data requests by extracting data from multiple sources.

07/2014-10/2014 Research Assistant, Johns Hopkins University, Baltimore, MD

Worked on solving unsupervised graph clustering problem with a unknown number of clusters in big data, by finding the optimal number of clusters with the Non-negative Matrix Factorization method. Used Apache Spark to parallelize the optimization process.

04/2012-08/2012 Research Assistant, Institute of Psychology (IP), CAS, Beijing, China

Aimed to analyze the mental health status of central government employees through statistical analysis, based on the investigation data of the employees' work environment, life satisfaction, and sources of occupational pressure.

03/2012-07/2012 Research Assistant, Beijing Language and Culture Univ., Beijing, China

Focused on developing a new feature selection method of text classification, "Dancing Links", by using the theory of Exact Cover, and implementing in C language. The efficiency and effectiveness of the proposed method were compared to commonly used text feature selection methods such as IG and CHI.

09/2011-01/2012 Teaching Assistant, Beijing Language and Culture Univ., Beijing, China

Assisted Intro to Scheme Programming by serving as a point of contact for 120 students regarding their grades and academic schedules. Helped make homework solutions before grading the homework and exams. Joined lab classes as the mentor to help students debug experimental programs.

HONOR & AWARDS

2011-2012 Advanced Class Cohesion Award

Honored for outstanding teamwork at Beijing Language and Culture University

2010-2011 Academic Exchange Fellowship

Fellowship from Beijing Language and Culture University for studying abroad at Newcastle University Upon Tyne, England

2008-2010 First Prize Scholarship

Honored for outstanding comprehensive accomplishments in College of Information Sciences at Beijing Language and Culture University

SELECTED ACADEMIC PROJECTS

2013 Ads Activation for Scopelys mobile game users

Machine Learning Course Project @ JHU: The main goal of this project was to predict the willingness to pay of a game player, to further determine whether to show ads to the specific player. Built random forest classifier and then extracted fixed features from original time-varying users' engagement dataset before performing random forest classifier. Selected among similar features based on variable importance score.

2013 Trends in Risk Factors for Lifestyle-Related Disease in Geneva

Mathematical Modelling and Consulting Course Project @ JHU: The primary objective of this project was to analyze the trend of each risk factor in different socioeconomic position (SEP) groups and to test if the trends in the different SEP groups were the same. Built linear and logistic regression models of the age-adjusted prevalence of risk factors versus survey year.

2012 Assessment of livable cities in Anhui Province

Graduation Thesis @ BLCU: The project proposed the grey relational method as a supplement to the common factor analysis method to evaluate the level of livability of the 17 cities in Anhui Province based on an evaluation indicators system of 42 indicators selected from the aspects of economic level, living conditions, social security and environmental protection.

2011 Influence of 2010 Shanghai Expo on Shanghai Financial Industry

2011 Higher Education Press Cup Mathematical Modeling Contest: The goal was to compare the data related to the financial industries before and after Shanghai Expo. Built ARMA model to project the relative data after Shanghai Expo, including financial value added, financial institutions' credit balance in banking, and primary insurance premium income in the insurance industry. Conducted significance tests to compare the estimated and real data after Expo.

TECHNICAL SKILLS

Programming Languages R, Matlab, C, Python, and SQL with practical experiences

Platforms and Tools SAS (base certification), IBM SPSS & Cognos, Excel, LaTeX, and Tableau

TESTS

10/2011 TOEFL: 106, R 28, L 28, S 23, W 27 *11/2011* GRE: V 158, Q 166, AW 3.5

LANGUAGE

Chinese Mandarin: Native *English:* Fluent *Japanese:* Basic Proficiency