Xiaowan (Kelly) Zheng

1111 Arlington Blvd APT 902, Arlington VA 22209

202.716.0312 xiaowanzheng@gmail.com

Education

Georgetown University

Department of Physics & McDonough School of Business

Ph.D. in Physics, Industrial Leadership Track, October 2017

University of Maryland

Department of Communication

M.S. in Conference Interpreting, May 2017

Tianjin University

Department of Science & Department of Arts

B.S. in Applied Physics; B.A. in English, June 2008

Industrial Experience

Senior Data Science Intern

BlueLabs Analytics, Inc. 2017.9-present

- Cleaned, transformed, and aggregated 2 billion clickstream records
- Built predictive models using high order Markov Model, k-means Clustering, and RNN LSTM
- Documented processes and evangelized new approaches

Academic Experience

Algorithm Develop

Georgetown University 2014.1-2017.8

- A Ph.D. dissertation project: developed five algorithms with different functionalities to improve MRI quality
- Designed and performed testing on contrast agents' properties and simulated large data sets
- Performed feature engineering, k nearest neighbor, and binary matrix to optimize algorithms

Data Analytics

Dillard's, Inc. 2016.9-2016.12

- Pulled and cleaned up database with billions of records
- Researched profit-relation questions and analyzed performances of stores
- Designed demand forecasting model using clustering and regression for price optimization

Data AnalyticsDeveloped queries and cleaned up 3-years' database

- **Dognition** 2016.3-2016.5
- Analyzed relation between completion of online tests and user and testing characteristics
- Assessed the existing promotion and developed actionable business recommendations

Other Experience

Teaching Fellow

Georgetown University 2010.9-2017.8

- Organized and lead lectures and labs, communicated technical concepts to students without tech background
- Won the annual Outstanding Teaching Award of American Association of Physics Teachers

Technical Skills

- **Programming Language:** Python, MATLAB, Octave, C++, Jupyter Notebook
- Data Management and Visualization: MySQL, Teradata, SQL server, Tableau
- Statistical Methods: regression, hypothesis testing, dimension reduction, principal component analysis
- Machine Learning: classification, clustering, neural networks, support vector machines, data compression

Presentation, Publication and Fun Facts

- Presentation: American Physics Society March Meeting, Chinese Physics Society Annual Meeting
- First-Author Publication: 2 published papers and 2 submitted papers
- Fun Facts: A professional Mandarin interpreter who has traveled to 20+ countries