

Yan Yin

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EDUCATION

Renmin University of China, Beijing, China

- B.S. in Statistics Minor in Economic Statistics
- Cumulative GPA: 3.78 / 4.0 Ranking: 4 / 27 GRE: 157+168+3.5 TOEFL: 105

RESEARCH EXPERIENCE

Deep Learning Collaborative Model on Implicit Feedback Datasets Feb 2018- present

- Combined matrix factorization and stacked denoising autoencoder algorithm on implicit feedback dataset aiming at cool start and sparse matrix and compared the model with PMF model

Split Questionnaire Design for Long Questionnaires Jan 2018- present

- Proposed a design dividing a lengthy questionnaire into subsets of survey items and then administered each subset to distinct subsamples to solve low response rate and poor quality of survey data
- Used predictive mean matching multiple imputation dealing with empty items

Textual Analysis Towards Spring Festival in Microblog Jul 2017- present

- Collected and cleaned 60GB data; used light-LDA and association rules to explore topics and relations
- Explored online information transmission rules by characterizing the behavior of follower and being followed respectively, and used a Bayesian approach to capture repost dynamics

Sentiment Analysis for Financial News Article Apr 2017- Jul 2017

- Explored positive and negative attitudes in news about stock market and its influence on stock volatility
- Paper Submitted: Yan Yin and Yang Li, "Textual Sentiment Analysis Powers Investment Decision." [J]. *China Statistics* Jun 2017

Geriatric Data Quality Assessment for China National Committee Apr 2017- present

- Used Capture-recapture method to assess quality of sampled data concerning the elderly
- Updated weights of the elderly population in 468 counties in China using weighting adjustment techniques based on auxiliary information from census data

Bike Demand prediction for Bike Sharing System Dec 2016- Jan 2017

- Predicted occupancy of stations in long term and short term using stochastic network model and Principle Component Regression with R and Matlab; used the maximal covering location model to locate stations

Investigation of Land Rights Reform Process Oct 2016- Feb 2017

- Conducted a national survey in 152 cities and explored levels of farmers' recognition and satisfaction towards land right in different dimensions and found key factors influencing that using SPSS
- Conducted cross-sectional and longitudinal studies with regression model, data visualization techniques and hypothesis testing to analyze the status of women in rural areas

Relationship between the Value of Children(VOC) and Desired Fertility May 2016- present

- Designed a questionnaire and surveyed more than 400 people under the two-child policy background
- Used factor analysis, lasso and hypothesis testing to explore the influence of VOC on desired fertility in three dimensions and established a hybrid model to explain fertility desire

INTERNSHIP

Data Analyst in Schlumberger: DDCE team Oct 2017- present

- Wrote reproducible python scripts to extract, clean and convert 3.5 million data
- Characterized trajectory structures using feature engineering and trajectory clustering
- Dealt with misspelling and irregular writing in user input using Weighted Levenshtein Distance
- Predicted users' preference in trajectory design with modified Random Forest

AI Researcher in Baidu: Brand Marketing Department Aug 2017- Oct 2017

- Collected and analyzed international Artificial Intelligence reports by building a web crawling
- Designed a research about drivers' attitudes towards driver fatigue and drowsiness detection devices

AWARDS & SCHOLARSHIPS

- Received Academic Excellence Scholarship in three consecutive years (top 10%) 2014 – 2017
- Received 20000 research fund in 2016 Undergraduate Innovative Test Program (top 5%) 2016 – present
- Won second prize in National College Student Academic Works Competition(top 10%) 2016- 2017

**CAMPUS
ACTIVITIES**

Statistical Research Association of RUC Minister of Human Resource Department in the Association

- Participated in questionnaire design and data processing in research projects such as annual Campus Satisfaction Survey and national surveys about public attitudes towards Chinese development

Youth Volunteer Association of RUC

Director of Marketing and Public Relations

- Published timely association information with media outlets; built and sustained online communities
- Volunteered to teach poor children for 4 months; volunteered in Beijing Marathon in 2016

SKILLS

R, Python, MATLAB, C++, SPSS, LaTeX, Linux, SQL, Visual Studio, Jupyter Notebook, Photoshop