

Yutang Xiong

Denver, CO 80231 • (312) 874 0451 • Yutang.Xiong@du.edu • <https://www.linkedin.com/in/yutang-xiong-a42b35111/>

EDUCATION

Ph.D., Research Methods & Statistics, Morgridge College of Education, University of Denver Denver, CO

Current GPA: 4.0/4.0

Sep. 2017- Expected June. 2021

M.A., Statistics, Department of Statistics, University of Missouri-Columbia

Columbia, MO

Overall GPA: 3.7/4.0

Aug. 2015- May. 2017

B.S., Mathematics, College of Mathematics and Econometrics, Hunan University

Hunan, China

Overall GPA: 80.9/100

Sept. 2010- July. 2014

SUMMARY OF SKILLS

- Measure Theoretic Probability, Bayesian Analysis, Markov Chain Monte Carlo Methods, Machine Learning Algorithms, Missing Data Analysis, Structure Equation Modeling
- Proficiency in R, Python, SAS, Stata, OpenBugs

WORK EXPERIENCES

Frederick S. Pardee Center for International Futures, University of Denver

Denver, CO

Project Lead for Dyadic/Monadic Data Series

May. 2018- present

- Leading a team of two research assistants to manage and update the dataset from multiple sources (up to 4 million observations with over 200 variables) for the use of International Relations research, including data collection, integration, and vetting
- Cooperating with other project leads to fulfil clients' data requests through data analysis, visualization, and interpretation such as investigating two countries' relation based on their records in the United Nations General Assembly's voting sessions and membership status in the intergovernmental organizations
- Developing and maintaining technical documentation of data management and analysis processes

National Bureau of Statistics, Jiangxi Province

Jiangxi, China

Internship, Assistant at the Division of Comprehensive Statistics

Oct.- Dec. 2013

- Helped with workflow in the Survey Office, including raw data collection, data processing and data analysis
- Assisted in checking/revising papers and reports to ensure their quality before publication

RESEARCH EXPERIENCES

Multiple Imputation with Simulated Non-Normal Missing Variable at Level 2

University of Denver

Paper accepted by 2019 AERA Annual Meeting, Supervised by Dr. Duan Zhang

Jan. 2018

- Simulated nested structure data sets with a non-normal missing variable at second level
- Compared the performance of three multilevel imputation methods with the regular single level imputation
- Identified the negative effects non-normality brought to the imputed data, and discussed those methods' performance change on different sizes of original data

Comparison between Casual and Registered Bike Rental Riders in the D.C. Area

University of Missouri

Capstone project for Master degree, Supervised by Dr. Lori Thombs

May. 2017

- Factorial experimental design (3-way ANOVA) were used to test a secondary data from Capital Bikeshare
- Results showed a positive effect due to a policy change by the company, also discovered different effects from changes in feeling temperature

Machine Learning Competition on Leaf Classification from Kaggle.com

University of Missouri

Team lead, ranked top 10% of more than 1000 teams

Nov. 2016- Dec. 2016

- Implemented statistical learning algorithms including Support Vector Machine, weighted Nearest Neighbor method, Decision Tree Based methods, and Deep Learning Methods through 'h2o' package in R
- Improved each model's performance by tuning optimal parameters using boosting and 5-fold cross validation
- Compared models and achieved miss classification error less than 1% with log-loss less than 0.05

CAMPUS ACTIVITIES

- Volunteer tutor for undergraduate candidates in the 2017 ASA DataFest Competition Jan.- Apr. 2017, MU
- Vice President of Student Union of College of Mathematics & Econometrics 2011-2012, HNU