

EDUCATION

Texas A&M University - College of Science

College Station, Texas

Doctor of Philosophy in Statistics, Master of Science in Mathematics, May, 2019

May, 2024

- Graduate Teaching Assistant in Statistical Computations
- Walter E. Koss Endowed Fellowship (\$8628 and in-state tuition) Aug. 2018
- **Courses:** Advanced Statistical Computation, Theory of Linear Models, Probability for Statistics, Applied Bayesian Methods, Mathematical Modeling, Optimization, Numerical Analysis, Numerical Partial Differential Equations

Georgia Institute of Technology - College of Computing

Atlanta, Georgia

Master of Science in Computer Science

Aug. 2020

- Graduate Teaching Assistant in Machine Learning
- Graduate Assistant of Mining Association Faculty Endowment
- **Courses:** Machine Learning, Deep Learning, Machine Learning for Trading, Big Data Health, Data & Visual Analytics, Game AI, Algorithms, Software Development Process, Database System Concepts & Design, Computer Networks

Beihang University - School of Mathematics and System Science

Beijing

Bachelor of Science: Hua Loo-Keng Mathematics Class (Honored Program of Mathematics)

July, 2018

- Mathematical Contest in Modeling (Honorable Mention, Top 19% Worldwide) Apr. 2017

PROJECTS

Neural Networks in prediction of porosity and throat size in randomly packed bed structure

Apr. 2020

Master's project

Nimisha Roy, Dr. Mahdi Roozbahani

- Generating mono sized and Gaussian distributed particles to simulate the bed structure
- Developing a Deep Neural Network structure to predict the porosity and throat size distribution

Temporal and Static Tensor Factorization for Phenotyping Electronic Health Records

Apr. 2020

Course project of Big Data Health at GaTech

github.com/nxli/TASTE

- Combine the PARAFAC2 model with non-negative matrix factorization to model a temporal and a static tensor for computational phenotyping and Predictive modeling by analyzing electronic health records
- Translated MATLAB code of TASTE and Nonnegative matrix factorization (NMF) algorithms based on alternating non-negativity constrained least squares to Python then did compatibility modification

PTE: Predictive text embedding through large-scale heterogeneous text networks

Nov. 2019

Course project of Machine Learning at GaTech

www.xingchi.li/PTEexperiments

- Using Linear Regression, CNN and Support vector Machine to predict in NLP and compare the results using F1-MACRO and F1-MICRO score
- Visualization of text embedding and interactive plotting based on input using D3

Database System for Vehicle Reselling Business

Jul. 2019

Course project of DB Sys. Concepts & Design at GaTech

Saozhong Han, Yu Zhang

- Using PHP to develop a web database application for supermarket chain where where vehicles information, transactions and users are stored.
- Design and optimize relational database EER schema for transaction details.

R package: Bayesian Analysis Problem Driven

May. 2019

Course project of Computational Statistics at Texas A&M U.

www.xingchi.li/BayesPD

- Generate posterior distribution automatically.
- Given parameters, do Montecarlo approximation.
- Show comparison of variables that two distributions produce.

PUBLICATION

CI-Bot: A Hybrid Chatbot Enhanced by Crowdsourcing

Jul. 2017

Xulei Liang, Rong Ding, Mengxiang Lin, Lei Li, Xingchi Li, Song Lu

APWeb and WAIM Joint Conference on Web and Big Data

TECHNICAL SKILLS

Python, R, C, Java, SQL, JavaScript-D3, UML, HTML, CSS, MATLAB, git, bash, \LaTeX
Hadoop, Spark, Pig, Agile software development process, test driven development