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EDUCATION

Texas A&M University - Department of Statistics **College Station, Texas, USA**
Doctor of Philosophy in Statistics Expected May 2025
Committee: Xianyang Zhang, Abhishek Chakraborty, Lan Zhou, Yong Chen

Georgia Institute of Technology - College of Computing **Atlanta, Georgia, USA**
Master of Science in Computer Science August 2020

Texas A&M University - Department of Mathematics **College Station, Texas, USA**
Master of Science in Mathematics May 2019
Committee: Peter Howard, Andrea Bonito, Jeffrey Hart

Beihang University - School of Mathematics and System Science **Beijing, China**
Bachelor of Science: Hua Loo-Keng Mathematics Class (Honored Program of Mathematics) July 2018

EXPERIENCE

A/B Testing Experiment Data Processing Pipeline (Lavaflow) Data Cube SQL Test August 2023
Google LLC, Core Data, Sunnyvale, CA, USA *Host: Xin Bai, Anthony Lai, (Raymond Ho, Caden Lu)*

- Design and implement a new Bazel macro to make the Lavaflow data cube testing results more user-friendly.
- Write C++ code generation binary to dynamically process different data formats using Google SQL.
- Allow users to write ad-hoc test SQL queries to query the data cube golden minion (RecordIO) and check the query results instead of reading large diffs in the minion files.
- Experiment on the relationship between data sampling rates and confidence interval calculations.

RulesKeeper: Domain Knowledge Based Rule's Manager August 2022
Google LLC, Core, Sunnyvale, CA, USA *Host: Grishma Chole, Korn Potisuntorn, (Chinmaya Sahoo)*

- Reliably identify the true failures, triage and resolve them within a time threshold for jobs on Scheduling Platform.
- Set up the programmatic rules based on the domain knowledge and the historical trends to provide intelligent monitoring and reduce notification redundancy by 70% – 90%.
- Achieved flexibility for client to choose / control how the service should behave by allowing them to set alerting triggers at more granular level (based on Rolling Time window, Failure densities).
- Achieved increased client reliability by allowing them to view how the alert may look like for a specific set of rules in advance (Adaptive thresholds, Recommendation based on historical data, Seasonality and/or trends checks).

Predictive text embedding through large-scale heterogeneous text networks xingchi.li/PTEexperiments

- Develop a heterogeneous graph integrating word, document, and label relationships, leveraging both labeled and unlabeled data for improved text embedding.

PUBLICATIONS

Double Blind Conference Paper Submitted AISTATS 2025

Segmenting Watermarked Texts From Language Models September 2024
Xingchi Li, Guanxun Li, Xianyang Zhang *NeurIPS 2024*

- Conduct theoretical analysis of Type I, Type II errors for randomization tests to detect the presence of watermarks.
- Propose a method to segment text into watermarked and non-watermarked text with theoretical guarantees.

fastcpd: Fast Change Point Detection in R

March 2024

*Xingchi Li, Xianyang Zhang**(Submitted) Journal of Statistical Software*

- Implement fast change point detection algorithm 500x faster than the vanilla Pruned Exact Linear Time algorithm.
- Provide consistent estimators for the variance estimation with change points.

EVIboost for the Estimation of Extreme Value Index under Heterogeneous Extremes

October 2022

*Jiaxi Wang, Yanxi Hou, Xingchi Li, Tiandong Wang**Journal of Data Science*

- Proposed a gradient boosting algorithm to estimate a functional extreme value index with heterogeneous extremes.
- Data-driven procedure that captures complex and dynamic structures in tail distributions.

Impact of Dietary Supplementation of L-Citrulline to Meat Goats During Gestation on Reproductive Performance


September 2024

*M Newton, A Lopez, C Stenhouse, K Hissen, E Connolly, Xingchi Li, L Zhou, G Wu, W Foxworth, F Bazer**Journal of Animal Science and Biotechnology***CI-Bot: A Hybrid Chatbot Enhanced by Crowdsourcing**

November 2017

*Xulei Liang, Rong Ding, Mengxiang Lin, Lei Li, Xingchi Li, Song Lu**Web and Big Data*

ACADEMIC WORKS

Reviewer for Journal of the American Statistical Association  0009-0006-2493-0853Reviewer for Journal of Machine Learning Research  0009-0006-2493-0853

TA	Fall 2024	STAT 610	Distribution Theory	Daren Cline	Texas A&M Univ
TA	Spring 2024	STAT 654	Stat Computing with R & Python	Sharmistha Guha	Texas A&M Univ
TA	Fall 2023	STAT 335	Principles of Data Science	Trevor Harris	Texas A&M Univ
TA	Spring 2023	ECEN 360	Computational Data Science	Kevin Nowka	Texas A&M Univ
TA	Fall 2022	STAT 335	Principles of Data Science	Trevor Harris	Texas A&M Univ
RA	Spring 2022			Xianyang Zhang	Texas A&M Univ
RA	Fall 2021			Xianyang Zhang	Texas A&M Univ
RA	Summer 2021			Jianhua Huang	Texas A&M Univ
TA	Summer 2021	STAT 651	Statistics in Research I	Alan Dabney	Texas A&M Univ
TA	Spring 2021	STAT 421	Machine Learning	Shahina Rahman	Texas A&M Univ
TA	Fall 2020	STAT 604	Statistical Computations	Faron Kincheloe	Texas A&M Univ
TA	Spring 2020	CS 7641	Machine Learning	Charles Isbell	Georgia Inst of Tech

TECHNICAL SKILLS

R 30k+ LOC **fastcpd** available on CRAN, **abseil** available on CRAN**Python** 20k+ LOC PyTorch**C++** 10k+ LOC FlumeC++**Java** 10k+ LOC Promise Graph, Spanner GoRM, gRPC**JavaScript** 3k+ LOC D3**Bazel** 1k+ LOC

Protocol Buffers, SQL, MATLAB, Hadoop, Spark, Apache Pig, Hive