Yun Zhang

RESEARCH INTERESTS

Graph Neural Networks, Recommendation System, Machine Learning, Causal Inference

Education

The Hong Kong University of Science and Technology (Guang	gzhou)	Guangzhou
Ph.D. Student in Data Science and Analytics Supervisor: Professor Bingyi Jing	Sep.	2021 – Present
The University of Hong Kong Master of Statistics Thesis: On Sequential Monte Carlo Methods for Parameter Estimation Supervisor: Professor Wentao Li	-	Hong Kong – Jun. 2021 ace Models
Hong Kong University of Science and Technology Visiting Student; CGA: 3.77/4.3	Sep. 2019	Hong Kong – <i>Dec. 2019</i>
Southern University of Science and Technology Bachelor of Statistics; GPA: 3.75/4.00 Thesis: Hypothesis Testing in the Proportional Inverse Gaussian Distra Supervisor: Professor Guoliang Tian		Shenzhen – Jun. 2020

PUBLICATIONS

• Zhang Yun, Shi Kexin, Jing Bingyi. "Hop-Mix-DNS: Hop-wise Mixing Dynamic Negative Sampling for Graph Neural Network-based Recommendation Systems". 2022. (submitted)

EXPERIENCE

Southern University of Science and Technology	Shenzhen
• Teaching Assistant - Nonparametric Statistics Prepare suggested solutions, and grade students' assignments and examples and examples and examples and examples and examples and examples are suggested solutions.	<i>Feb. 2020 - Aug. 2020</i> ms.
• Research Assistant - Object Detection and Ethology Data Analysis Use YOLO (You Only Look Once) neural network to detect objects fr and analyze extracted coordinates data by statistical methods.	<i>Jul. 2019 - Aug. 2019</i> om experimental videos,
• Teaching Assistant - Probability and Mathematical Statistics Prepare suggested solutions and grade students' assignments weekly.	Feb. 2019 - Jun. 2019
• Student Assistant - Java Meet scheduled lab classes and answer questions, clarify materials. Pro and auto-checking scripts, and grade assignments, tests, and exams.	<i>Mar. 2018 - Jul. 2018</i> epare suggested solutions
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Projects

• **Parameter Estimation by LM-SMC algorithm**: Study the algorithms of estimating extreme quantiles of Cox-Ingersoll-Ross model under the generalized mixture Sequential Monte Carlo framework. (Master Thesis)

- Hypothesis Tests of PIG Distribution: Study several hypothesis tests for Proportional Inverse Gaussian distribution, and EM/MM algorithms for its inference. (Bachelor Thesis)
- Nonparametric Statistics Manual: Online manual of nonparametric statistical methods, developed with docsify.

Skills

- Language: English: fluent; Mandarin: native; Cantonese: conversational
- Certificate: Financial Risk Management (FRM)
- Programming Languages: Python, R, Matlab, Julia, Java

AWARDS

- HKU Subject Prize in STAT6010 Advanced Probability, Dec 2021
- SUSTech Outstanding Dissertation for Bachelor's Degree, May 2020
- HKU Entrance Scholarship for the Master of Statistics, April 2020
- SUSTech Outstanding Student Scholarship (Grade 2), Sep 2019
- SUSTech Outstanding Student Scholarship (Grade 3), Sep 2018
- SUSTech Outstanding Student Scholarship (Grade 3), Sep 2017