

Terence, Junjie LIU

MPHIL STUDENT | OPEN SCIENCE ADVOCATE

2000 Jintong Road, Tangjiawan, Zhuhai, Guangdong Province, China
BNU-HKBU United International College

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Education

Hongkong Baptist University (joint with BNU-HKBU United International College)

Zhuhai & HKSAR, China

MPHIL STUDENT IN MATHEMATICS (PROBABILITY AND STATISTICS)

start from 2021

- Full Scholarship
- Research Interst: Statistics Inference, Reasoning and Probabilistic Model

BNU-HKBU United International College

Zhuhai, China

BACHELOR OF SCIENCE (HONOURS) IN STATISTICS

2016 – 2020

- Second Class Honours
- Activities, Awards and Societies: Co-Funder of a student-based tech-oriented group: UICHCC; USBC Cluster (UIC-Statistics Bayes Cluster) Adminstrator

Experience

BNU-HKBU United International College

Zhuhai, China

RESEARCH ASSISTANT; SUPERVISOR: DR. YU-HUI DENG & PROF. HUA-XIONG HUANG

June 2020 - August 2021

- ShanXi Province Stroke Data Analysis
- Diabetic Kidney Disease Data Analysis
- Market & Social Media Sentiment Index
- Implementation of Statistical Model and Deep Neural Network in Financial Data Analysis

LAB MANAGER & SERVER ADMINISTRATOR - DEPARTMENT OF STATISTICS

June 2018 - August 2020

- Built the first high performance computing cluster: USBC (UIC-STAT Bayes Cluster) in UIC-STAT department GitHub link: <https://github.com/Bayes-Cluster>

UNDERGRADUATE STUDENT RESEARCHER; SUPERVISOR: PROF. KANG-TOO TSANG

June 2019 - August 2020

- Asymmetric Cryptography Algorithm Acceleration with Heterogeneous Structure

Shenzhen Long shun Sheng Electronic Co Ltd

Shenzhen, China

RESEARCH INTERN; MENTOR: MR.ZHIJIANG LIU

May 2018 - August 2018

- Business Data Analytics: Identifies target customers, Exchange Rate Forecasting, Logistic Layout, and Decision Making

Guangzhou IPLOOK Network Technology Co Ltd

Guangzhou, China

MANAGEMENT INTERN; MENTOR: MR.JIAN WANG

June 2020 - August 2020

- Business Data Analytics
- Sales Technique
- Human Resurce Management Technique
- Leadership

Skills

Data: Collection, cleaning, mining, analysis, visualisation, statistics

Programming: Python (intermediate); R (beginner); MATLAB (beginner); Bash (intermediate).

Statistical Methods: predictive modelling (regression, time series); hypothesis testing and confidence intervals; Statistical Inference (Bayesian Approach)

Deep Learning: Most of the basic Neural Network model (CNN, RNN and its variant)

Operating Systems: macOS, Linux, Microsoft Windows.

Publications

JOURNAL

3. **LIU, J.**, TSANG, K., & DENG, Y. (2021). "A Variant RSA Acceleration with Parallelization." (submit to) *International Journal of Parallel, Emergent and Distributed Systems* <https://arxiv.org/abs/2111.11924>
2. **LIU, J.**, SUN Yiyang, Ma Jing, Tu Jiachen, DENG Yuhui, HE Ping, HUANG Huaxiong, ZHOU Xiaoshuang, & XU Shixin (2021). "Analysis of main risk factors causing stroke in Shanxi Province based on machine learning models." *Informatics in Medicine Unlocked*, 100712. <https://doi.org/10.1016/j.imu.2021.100712>
1. Ma, J., Sun, Y., **Liu, J.**, Huang, H., Zhou, X., & Xu, S. (2021). Multi-objective optimization and explanation for stroke risk assessment in Shanxi province. (in review at) Scientific Reports

PROCEEDINGS

2. **J.J. Liu**, X.L. Peng, Y.H. Deng (2021). "Online Statistics Teaching-assisted Platform with Interactive Web Applications using R Shiny." (accepted by) *The 6th International Symposium on emerging Technologies for Education* <https://sete2021.uic.edu.cn>
1. **J.J. Liu**, K.K. Tsang, Y.H. Deng et al., "Improved Parallel RSA Cryptosystem with GPU for Network Information Security", *In The International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery*, 1061–1068, 2020. https://doi.org/10.1007/978-3-030-70665-4_115

Teaching & Supervising

Teaching Assistant - STAT4103 Introduction of Deep Learning with Python, BNU-HKBU UIC, Zhuhai, China 2021

Presentations

Online Statistics Teaching-assisted Platform with Interactive Web Applications using R Shiny. – SETE 2021 2021
Conference Oral, T2-201 (BNU-HKBU UIC)
Improved Parallel RSA Cryptosystem with GPU for Network Information Security – FSKD-ICNC 2020 Conference 2020
Oral, Online
Alice, Bob & Eve's Story - UICHCC Event, T8-305 (BNU-HKBU UIC) 2019
Collaborating and Converging - UICHCC Event, T8-306 (BNU-HKBU UIC) 2018