Weiqi Liang

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EDUCATION

Columbia University – Mailman School of Public Health New York, NY
Master of Science, Biostatistics Expected on May. 2026

Beijing Normal University Guangdong, China
Bachelor of Science, Mathematics and Applied Mathematics, GPA:3.4/4.0 Jun. 2024

SKILLS

Biostatistical Skills: **R (2 yrs)**, **SAS (Certified Professional: Advanced Programming Using SAS 9.4)**, Stata
Computer Skills: Python, MATLAB, C, Visual Studio, Amos, LaTeX, GraphPad Prism
Visualization Skills: Unreal Engine, Blender, Photoshop, Procreate

PUBLICATIONS

Liang W, Wang H, Xue H, Chen Y, Zhong Y. Spatiotemporal characteristics and co-effects of air quality and carbon dioxide emissions changes during the COVID-19 epidemic lockdown measures in China. J Clean Prod. 2023 Aug 15;414:137755. doi: 10.1016/j.jclepro.2023.137755 (13 pages; IF=11.1).
Wang H, **Liang W**, Spatio-temporal evolution characteristics and co-effects of air pollutants and CO_2 emissions changes before and after the COVID-19 epidemic in China (in review)

PRACTICAL EXPERIENCE

Construction of Corporate Risk Data Mart Fujian, China
Member of China Construction Bank Corporation's risk management department Jun. 2024-August. 2024

- Monitored loan account information, trading behavior and business operation after the loan of 31 Fuzhou City enterprises.
- Identified 20 use cases for A government service platform via users' experience and marketing campaigns. Completed and implemented 3 key use cases to achieve a 10% increase in loan pass rate and a 36% increase in overall loan process efficiency.

RESEARCH EXPERIENCE

Influence Model Building and Driving Factors Identifying City Dweller Traveling Guangdong, China
Team member of 2, Supervised by Huihui Wang, PhD Apr. 2023-May. 2023

- Constructed Structural Equation Modeling (SEM) for this project using Amos.
- Selected suitable indicators as exogenous latent variables and endogenous latent variables.

Spatiotemporal Features and Synergy of Carbon Emission and Air Quality during COVID-19 Lockdown in China Guangdong, China
Team leader of 3, Supervised by Huihui Wang, PhD Apr. 2022-Aug. 2023

- Adopted Regression Discontinuity in Time (RDiT) and a co-effect control coordinate system evaluation method to give more reliable estimates of the causal effects between lockdown measures and air quality
- Collected, cleaned data, and constructed research model using Python and Stata. Ran Stata code to gain results and improve model and graph illustrations based on results.s
- Drafted and published an academic paper and responded to editor and reviewers.

AWARDS

Honorable Mention, Mathematical Contest in Modeling, by COMAP Jul. 2023
First Prize, China Undergraduate Mathematical Contest in Modeling (Provincial) Nov. 2022
First Prize, Asia and Pacific Mathematical Contest in Modeling Nov. 2021