

Futian Weng

CONTACT INFORMATION	422, Siming, Siming South Road Xiamen, China	E-mail: xmftweng@163.com www.researchgate.net/profile/Futian-Weng
RESEARCH INTERESTS	Applied Mathematics Data Science Trustworthy AI Healthcare FinTech	
EDUCATION	School of Medicine, Xiamen University Xiamen, China Ph.D. in Health Big Data and Intelligent Medicine Sep. 2021 - Jun. 2025 Thesis: Chronic Disease Surveillance and Care Optimization in Mobile Health Ecosystems Advisor: Prof. Jianping Zhu School of Mathematics & Statistics, Central South University Changsha, China Master. in Statistics Sep. 2017 - Jun. 2020 Thesis: Research on Deep Learning Algorithms and Their Applications in Medical Imaging Advisor: Prof. Muzhou Hou School of Mathematics & Statistics, Central South University Changsha, China Bachelor. in Information & Computing Science Sep. 2013 - Jun. 2017	
HONORS AND AWARDS	Outstanding Graduate Student of Hunan Province 2020 • Top 2% of all graduate students from Central South University Mittal Outstanding Student Scholarship 2020 • 2 students awarded per year among nearly 250 postgraduates in the school Huawei Outstanding Student Scholarship 2019 • 2 students awarded per year among nearly 250 postgraduates in the school Mathematical Modeling Competition 2018, 2019 • First prize of the National College Student Mathematical Modeling Competition • Second prize of American College Students Data modeling Competition	
PUBLICATIONS	Full article: [Google Scholar] -Ma, Y., Meng, Y., Li, X., Fu, Y., Xu, Y., Lu, Y., & Weng, F* . 2025. JaunENet: An effective non-invasive detection of multi-class jaundice deep learning method with limited labeled data. Applied Soft Computing, 112878. (SCI Q1, IF=7.2)[Web][Code] - Weng, F. , Zhu, M., Buckle, M., Hajek, P., & Abedin, M. Z. 2025. Class imbalance Bayesian model averaging for consumer loan default prediction: The role of soft credit information. Research in International Business and Finance, 74, 102722. (ABS 2*, SSCI Q1, IF=6.3) [Web] - Weng, F. , Cheng, D., Zhuang, M., Lu, X., & Yang, C. 2024. The effects of governance quality on renewable and nonrenewable energy consumption: An explainable decision frame. Journal of Forecasting, 43(6), 2146-2162. (ABS 2*, SSCI Q1, IF=3.4)[Web] -Yang, C., Zhang, H., & Weng, F* . 2024. Effects of COVID-19 vaccination programs on EU carbon	

price forecasts: Evidence from explainable machine learning. International Review of Financial Analysis, 102537. (ABS 3*, SSCI Q1. IF=8.2) [Web]

-Su, M., Cheng, D., Xu, Y., & **Weng, F***. 2023. An improved BERT method for the evolution of network public opinion of major infectious diseases: Case Study of COVID-19. Expert Systems with Applications, 233, 120938. (SCI Q1, IF=8.668) [Web]

-Yang, C., Abedin, M. Z., Zhang, H., **Weng, F***, & Hajek, P. 2023. An interpretable system for predicting the impact of COVID-19 government interventions on stock market sectors. Annals of Operations Research, 1-28. (ABS 3*, SSCI Q1. IF=4.4) [Web]

-**Weng, F.**, Zhu, J., Yang, C., Gao, W., & Zhang, H. 2022. Analysis of financial pressure impacts on the health care industry with an explainable machine learning method: China versus the USA. Expert Systems with Applications, 210, 118482. (SCI Q1, IF=8.668) [Web]

-**Weng, F.**, Meng, Y., Lu, F., Wang, Y., Wang, W., Xu, L., & Zhu, J. 2022. Differentiation of intestinal tuberculosis and Crohn's disease through an explainable machine learning method. Scientific Reports, 12(1), 1714. (SCI Q1, IF=3.8) [Web]

WORKING PAPERS

-**Weng, F.**, Yang, C., Zhu, M. Default Behavior Portrait Based on Combination Feature Effect: Evidence from A Novel Class-Imbalance Learning Method.

-**Weng, F.**, Su, M. An interval prediction framework integrating feature selection algorithm for infectious disease public opinion trend.

-**Weng, F.**, Yang, C., Chen, J. Feeling is believing: Success prediction by modelling the emotional trajectories in entrepreneurial narration.

-**Weng, F.**, Ma, Y., Xu, Y. Data-driven sampling ensembles analytics framework for epilepsy detection based on EEG signal.

-Zhen, C., Zhu, J., **Weng, F***. Credit scoring modeling based on an improved two-stage method with fragmentary data.

PATENT

-**Weng, F.**, Zhuang, M., Zhu, J. A video performance prediction method and system based on multimodal perspectives. ZL 2021 1 1544234.9.

-Xu, Y., Ma, Y., **Weng, F.** A method and system for category recognition and feature determination of skin state images. ZL 2022 1 0131708.5.

-Xu, Y., An, B., **Weng, F.**, Wang, Y., Li, S. Abnormal behavior recognition method, system, and device based on class imbalance data. ZL 2023 1 1365953.3.

PROJECTS

Humanities and Social Sciences Research Fund Project of the Ministry of Education

Natural language processing Methodology in Socio economic Statistics

22YJA910004, [Rank second]

Jan. 2021 - Jan. 2025

Tian'an Cup College Student Innovation and Entrepreneurship Project

Research on the Application of Deep Learning in Medical Image Processing

TAB2019-07, [Rank first]

Dec. 2019 - Dec. 2020

National Social Science Fund Major Projects

The transmission path and early warning monitoring of major infectious diseases
 20&ZD137, [Core members] Dec. 2020 - Dec. 2024

Major Statistical Projects of the National Bureau of Statistics

Research on Big data technology methodology applicable to socio-economic statistics
 20ZX20, [Core members] Dec. 2020 - Dec. 2022

TALKS	2021 International Conference on Data Mining and Applications, Xiamen, China	Jul. 2021
	2022 International Conference on Data Mining and Applications, Guilin, China	Nov. 2022
	Central South University, Changsha, China	Nov. 2022
	Ocean University of China, Qingdao, China	May. 2022
	Beihang University, Beijing, China	Jun. 2023
	National Quemoy University, Taiwan, China	Nov. 2024

PROFESSIONAL SERVICES

Regular Reviewer for Journals

- Annals of Operation Research
- International Review of Financial Analysis
- Expert Systems with Applications
- Journal of Forecasting
- Technology in Society
- Neurocomputing
- Financial Innovation
- Applied Intelligence
- Digital health
- Journal of Big Data
- Data in Brief
- International Journal of Data Science and Analytics

Membership

- Big Data Statistics Society - Chinese Association for Applied Statistics (BDSS-CAAS)

LANGUAGES

Mandarin, English

TECHNICAL SKILLS AND INTERESTS

- Statistical & Machine learning: Python, R
- Applications: \LaTeX
- Interests: Photography