Fengjiao Li

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RESEARCH INTERESTS

Geospatial artificial intelligence (GeoAI), graph neural networks (GNNs), spatial statistics, human mobility analysis, spatio-temporal modeling, population dynamics, Bayesian inference, machine learning for spatial and health data.

EDUCATION

University of Glasgow （PhD Student in Geospatial Data Science） **5/2025-Present**

- Thesis: Towards GeoAI-Enhanced Mobility-Based Health Risk Analysis: Embedding Spatial Intelligence into Graph Neural Networks for Dynamic Population Modelling

University of Glasgow （Doctoral Training in Statistic） **10/2024-4/2025**

- Project: Spatio-temporal modelling of big disease data combining machine learning and spatial statistics
- Completed training in Bayesian spatial models, disease mapping, and statistical machine learning
- Transitioned to a more interdisciplinary research direction in geospatial AI

University of Liverpool **09/2022–04/2024**

- Programme: Applied Statistics (Biostatistics Direction)
- Degree: Master of Science
- Average Mark: Distinction
- Modules: Probability (86%); Advanced Methods in Biostatistics (83%); Clinical Trials: Design and Analysis (80%)； Generalized Linear Models (78%)
- Ranking: Top 1 in the whole grade

Changshu Institute of Technology **09/2018-06/2022**

- Programme: Economic Statistics
- Degree: Bachelor of Economics
- Average Mark: 86.36%
- Modules: Calculus 1 (89%); Calculus 2 (92.5%); Linear Algebra (86%)
- Ranking: Top 5% in the whole grade; Top 1 in the whole class

University of Wisconsin - Eau Claire **01/2020-09/2020**

- Programme: Mathematics and Applied Statistics
- GPA: 3.45/4
- Note: During the academic exchange, I cooperated with classmates from different countries to conduct various research projects successfully. This experience improved my abilities to adapt to new environments and work efficiently within a team. Of course, my English proficiency and multicultural understanding also got improved.

RESEARCH EXPERIENCE

Research on Batch Effect Correction for Single Cell RNA Data **09/2023**

- Develop and test statistical indicators used to evaluate the effectiveness of different batch effect correction methods.
- Responsible for the batch effect correction of actual data using methods based on ComBat, and validate its effectiveness.
- Work closely with the research team at Boston University, responsible for the overall execution and interpretation of data analysis.
- Analysis results support the effectiveness of the batch effect correction method, contributing to the accuracy of single-cell RNA-sequencing data analysis.

Research on 3D Printing **09/2022-10/2023**

- Participated in the research project of Professor Wang Jinwu's team at Shanghai Jiao Tong University and took charge of data analysis at the 3D Printing Laboratory.

Research on Manufacturing Enterprise Innovation in the Internet Age **04/2021**

- Conducted questionnaire surveys and interviews to collect raw data about manufacturing industries in Suzhou and Wuxi.
- Used descriptive statistical methods to analyze the status quo, problems and needs of Internet plus, open innovation, and transformation of manufacturing enterprises in Suzhou and Wuxi.
- Recommended suggestions for promoting transformation of manufacturing enterprises based on the statistical analysis results.

Blosozumab (TST002) - Clinical Phase II **06/2023**

As a biostatistician, reviewed the TST002-1001 clinical research report:

- Responsible for reviewing the completeness and accuracy of clinical research data, identifying, and correcting anomalies.
- Evaluated the appropriateness of statistical methods and models used, ensuring alignment with research design and objectives.
- Verified the accuracy and significance level of the statistical results, ensuring they are consistent with research assumptions and objectives.
- Oversaw clear labeling of data sources and the handling of missing data.
- Enhanced the reproducibility of research by sharing analysis codes and datasets.

PD-L1/TGF-β Dual Function (TST005) - Clinical Phase I **06/2023**

As a biostatistician, participated in the examination of drug safety and dosage adaptability:

- Designed data collection forms, monitored data quality, ensuring high accuracy.
- Conducted preliminary statistical analysis to evaluate drug safety.
- Used statistical models to analyze the impact of different dosages on safety and drug efficacy.
- Completed periodic and final data analyses, interpreting research results.
- Worked closely with the clinical team, accurately interpreting statistical results.
- Authored the statistical analysis plan.

JOB AND INTERSHIP EXPEREINCES

Zenith (work as Biostatistician) **12/2023-09/2024**

- Participated in multiple clinical trial projects, responsible for full-cycle statistical analysis including statistical analysis plan (SAP) development, randomization implementation, and final report writing.
- Designed and reviewed SAPs detailing statistical methodologies, algorithm specifications, derived variable definitions, and missing data handling strategies.
- Planned and executed randomization and blinding procedures; developed and implemented unblinding protocols for blinded trials.
- Authored, revised, and reviewed statistical analysis reports (SARs); ensured consistency and accuracy of reported results.
- Collaborated with data management teams to review CRFs and DVPs; conducted statistical data checks and drafted data review reports as needed.
- Verified TFLs (tables, figures, listings) provided by programmers, ensuring the correctness of statistical methods and reproducibility of results.
- Participated in or led data review meetings to discuss data quality and analysis strategies.

Transcenta (work as Biostatistician) **06/2023-10/2023**

- Responsible for reviewing statistical analysis plans, including statistical methods, primary statistical procedures, defining derived variables, principles of data processing, and formats of statistical tables.

- Provide statistical support for statistical-related documents, such as clinical study protocols, statistical analysis plans, statistical graphs and tables, statistical reports, and clinical study reports.
- Assist in sample size calculations, review of clinical research protocols, and Case Report Form (CRF).
- Offer suggestions to the data management department regarding database design and oversee the review of key data and its quality.
- Responsible for the statistical work during the design phase of clinical research projects.

ClinChoice (work as SAS programmer) **10/2021-4/2022**

- Served as an SAS programmer.
- Manipulated and analyzed biomedical data by use of the statistical software SAS.
- Reported the data analysis results to leaders.

EXTRA EXPERIENCE

Teaching Assistant in Xi'an Jiaotong-Liverpool University **09/2023-12/2024**

- Conducting SAS lab sessions for undergraduate students.
- Designing the course syllabus and lecture content.

Changshu Institute of Technology Entrepreneurship Training Project **06/2021**

- Served as the second person in charge.
- Undertook data collection and analysis.

The 11th National College Student Market Survey and Analysis Competition **03/2021**

- Led a team to participate in the competition.
- Won the second prize in Jiangsu Province Trial.

AWARD AND CERTIFICATE

- China Scholarship Council (CSC) – University of Glasgow Joint PhD Scholarship (2024)
- Outstanding Graduates (2022)
- National Market Research and Analysis Specialized Skills Certificate (2021)
- Provincial-Level Second Prize in the 11th National College Student Market Survey and Analysis Competition (2021)
- Changshu Institute of Technology Academic Excellence Award (2021)
- Changshu Institute of Technology Competition Excellence Award (2021)
- Changshu Institute of Technology Second-Level Scholarship (2021; 2020; 2019)

SKILLS

Coding Skills：R; SAS; Python
Data Analysis：SPSS; EViews