

Siyuan Li

lsy111@sjtu.edu.cn | +86 177-6614-8847 | [ORCID](#) | [GitHub](#) | [LinkedIn](#) | [Website](#)

Education

Shanghai Jiao Tong University School of Medicine	2020/09 - Expected 2025/06
Double major in Preventive Medicine & Administrative Management, GPA 3.65/4.0	Shanghai, China
<ul style="list-style-type: none">A/A+ Courses: Calculus, C Programming, Bioinformatics, Fuzzy Mathematics and its Application, Causal Inference, Internal Medicine, Pediatrics, Obstetrics and Gynecology, Infectious Diseases, Dermatology Practice, etc.Ad-hoc teaching assistant for C Programming (Fall 2020): Invited by the Professor to provide course assistance, answer fellow students' questions and lead a Q&A session during finals week.	

Publications

<ul style="list-style-type: none">Ying K, Paulson S, Eames A, Tyshkovskiy A, Li S, Perez-Guevara M, et al. A Unified Framework for Systematic Curation and Evaluation of Aging Biomarkers. bioRxiv. 2024:2023.12.02.569722. (Submitted for Journal Review)Han L, Zhao S, Li S, Gu S, Deng X, Yang L, et al. Excess cardiovascular mortality across multiple COVID-19 waves in the United States from March 2020 to March 2022. Nature Cardiovascular Research. 2023 2023/03/01;2(3):322-33.Li S, Han L, Shi H, Chong MKC, Zhao S, Ran J. Excess deaths from Alzheimer's disease and Parkinson's disease during the COVID-19 pandemic in the USA. Age and Ageing. 2022 2022 DEC 5;51(12).	
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Research Experience

Single-Cell Aging from a Large Language Model Perspective, Co-Investigator	2024/05 - Present
<ul style="list-style-type: none">Collected data, performed preprocessing, and fine-tuned models using PythonEvaluated model performance using various metrics	Under development
A New Machine Learning Method for Disease Prediction based on Epigenetics, Co-Investigator	2024/02 - Present
<ul style="list-style-type: none">Gathered datasets and performed experiments using PythonReproduced over a dozen classic disease prediction models for comparison with new methods	Under development
A Unified Framework for Systematic Evaluation of Aging Biomarkers, Co-Investigator	2023/12 - Present
<ul style="list-style-type: none">Collected dataset and reproduced models from multiple multiple landmark papers using PythonContributed to partial functions in the Biolearn Python library for aging clock algorithms	Submitted
Environmental exposure to Benzene and new-onset Alzheimer's disease, Principal Investigator	2023/06 - Present
<ul style="list-style-type: none">Conducted survival analyses, mixed linear regression analyses and sensitivity analysis using RInterpreted and organized results, compiled tables and summarized key findings informativelyVisualized Alzheimer's-related brain atrophy under Benzene exposure using BrainNet ViewerAuthored all supplementary materials and created Graphical abstracts	Under Revision
Metastatic renal cell carcinoma and its immune microenvironment, Co-Investigator	2023/03 - 2024/04
<ul style="list-style-type: none">Drafted the project proposal of College Students' Innovative Training Program (CSITP)Conducted unsupervised hierarchical clustering analysis on gene expression data using R	Completed
Excess deaths of Alzheimer's disease and Parkinson disease, Principal Investigator	2022/06 - 2022/12
<ul style="list-style-type: none">Conducted Poisson regression to estimate counterfactuals using RPerformed data visualization using RAuthored the entire manuscript and part of supplementary materials	Published
Excess cardiovascular mortality across multiple COVID-19 waves, Co-Investigator	2022/03 - 2022/11
<ul style="list-style-type: none">Curated the data for analysisConducted data visualization in temporal and spatial patterns using R	Published

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Honors

- ◆ 2024 Abbott Medical Scholarship, First-Class (Top 0.1%)
- ◆ 2024 Simpleway Private Equity Fund Scholarship, First-Class (Top 0.1%)
- ◆ 2023 National College Student Academic Science and Technology Competition, Third Prize
- ◆ 2019 National Mathematical Olympiad, Second Prize
- ◆ 2019 Merit Student Leader of the Year in Jiangsu Province

Additional Information

Computer: Proficient in R and Python, Familiar with C, C++, MATLAB and SPSS

Language: Mandarin (Native), English (Fluent)

Last Updated in July 2024