



Zhen Lu

PH.D. CANDIDATE OF EPIDEMIOLOGY AND BIOSTATISTICS · SUN YAT-SEN UNIVERSITY

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Education

Sun Yat-sen University

PH.D. CANDIDATE IN EPIDEMIOLOGY AND BIOSTATISTICS

China

Sept. 2022 - Present

- Advisor: [Siyang Liu](#), [Huachun Zou](#)
- Research fields: Biostatistics, artificial intelligence, clinical epidemiology, casual inference, human statistical genetics, and bioinformatics

Harbin Medical University

M.SC. IN EPIDEMIOLOGY AND BIOSTATISTICS

China

Sept. 2018 - Jun. 2021

- Advisor: Yan Liu
- Research fields: Biostatistics, data science, and machine learning

Harbin Medical University

B.SC. IN PREVENTIVE MEDICINE

China

Sept. 2013 - Jun. 2018

- Courses: Epidemiology, and biostatistics

Work Experience

MacroStat (China) Clinical Research Co., Ltd. - Tigermed

STATISTICIAN I

Shanghai, China

Jul. 2021 - Mar. 2022

- Specialized in statistical methods and SAS programming in clinical trials

Publications

REPRESENTATIVE JOURNAL ARTICLES [6/34] (* FOR CO-FIRST AUTHOR)

1. H. Zou, **Z. Lu***, W. Weng, L. Yang, L. Yang, X. Leng, J. Wang, Y.-F. Lin, J. Wu, L. Fu, X. Zhang, Y. Li, L. Wang, X. Wu, X. Zhou, T. Tian, L. Huang, C. M. Marra, B. Yang, T.-C. Yang, and W. Ke. "Diagnosis of neurosyphilis in HIV-negative patients with syphilis: development, validation, and clinical utility of a suite of machine learning models". *eClinicalMedicine* 62 (2023), p. 102080. doi: [10.1016/j.eclinm.2023.102080](https://doi.org/10.1016/j.eclinm.2023.102080). (Advisor as first author, JCR Q1, IF 17.033).
2. **Z. Lu**, B. Dong, H. Cai, T. Tian, J. Wang, L. Fu, B. Wang, W. Zhang, S. Lin, X. Tuo, J. Wang, T. Yang, X. Huang, Z. Zheng, H. Xue, S. Xu, S. Liu, P. Sun, and H. Zou. "Identifying Data-Driven Clinical Subgroups for Cervical Cancer Prevention With Machine Learning: Population-Based, External, and Diagnostic Validation Study". *JMIR Public Health Surveill* 11 (2025), e67840. doi: [10.2196/67840](https://doi.org/10.2196/67840). (JCR Q1, IF 3.5).
3. B. Dong, **Z. Lu***, T. Yang, J. Wang, Y. Zhang, X. Tuo, J. Wang, S. Lin, H. Cai, H. Cheng, X. Cao, X. Huang, Z. Zheng, C. Miao, Y. Wang, H. Xue, S. Xu, X. Liu, H. Zou, and P. Sun. "Development, validation, and clinical application of a machine learning model for risk stratification and management of cervical cancer screening based on full-genotyping hrHPV test (SMART-HPV): a modelling study". *The Lancet Regional Health - Western Pacific* 55 (2025). doi: [10.1016/j.lanwpc.2025.101480](https://doi.org/10.1016/j.lanwpc.2025.101480). (JCR Q1, IF 7.6).
4. **Z. Lu**, L. Fu, L. Yang, T. Tian, Y. Gao, X. Meng, and H. Zou. "Hesitancy to Undergo SARS-CoV-2 Rapid Antigen Testing in China: Nationwide Cross-sectional Study". *JMIR Public Health Surveill* 9 (2023), e43555. doi: [10.2196/43555](https://doi.org/10.2196/43555). (JCR Q1, IF 14.557).
5. **Z. Lu**, B. Dong, P. Yao, Y. Huang, L. Fu, B. Wang, X. Huang, X. Mao, S. Xu, S. Liu, P. Sun, and H. Zou. "Characteristics of Human Papillomavirus Prevalence and Infection Patterns Among Women Aged 35–65 in Fujian Province, China: A Nine-Year Retrospective Observational Study". *Journal of Medical Virology* 97.2 (2025), e70238. doi: <https://doi.org/10.1002/jmv.70238>. (JCR Q1, IF 6.8).
6. L. Yang, **Z. Lu***, J. Bian, F. Li, and H. Zou. "Association between chronic viral infection-related hospitalization and risk of cardiovascular disease: A population-based cohort study". *Journal of Medical Virology* 96.1 (2024), e29350. doi: <https://doi.org/10.1002/jmv.29350>. (JCR Q1, IF 12.7).

Patents

Non-therapeutic clinical diagnosis system for neurological syphilis based on machine learning, LU504466 (rank 1/1)

2023

Honors & Awards

2024	The National Scholarship	November
2024	The Presidential Scholarship	Sun Yat-sen University, September
2024	Cover image of Journal of Medical Virology	Volume 96, Number 1, January
2023	The First Prize Scholarship	Sun Yat-sen University, September
2019	The First Prize Scholarship	Harbin Medical University, December

Teaching Experience

2022-24	Teaching Assistant (TA) of Epidemiology	Sun Yat-sen University
2023	TA of English for Public Health	Sun Yat-sen University
2018-19	TA of Biostatistics	Harbin Medical University

Service & Outreach

Personal WeChat official account about biostatistics

OWNER

- Authored posts about biostatistics, artificial intelligence, and coding tips of R, SAS, and Python

Academic reviewer

PEER REVIEW

- Completed the peer-review process by providing the review reports for journals

Academic advising

CONSULTED ON BIOSTATISTICS AND CLINICAL EPIDEMIOLOGY

- Advised PhD, master and bachelor students on biostatistics and academic writing

Skills

Programming	R, SAS, Python, SQL, Git/GitHub, Markdown, LaTeX
Languages	Mandarin (native), English (fluent)
IDE	RStudio, SAS Enterprise Guide, Visual Studio Code, PASS, Overleaf