Zhen Lu

Ph.D. candidate of Epidemiology and Biostatistics · Sun Yat-sen University

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Education

Sun Yat-sen University   *China*

Ph.D. candidate in Epidemiology and Biostatistics   *Sept. 2022 - Present*

- Advisor: Siyang Liu, Huachun Zou
- Research fields: Biostatistics, machine learning, casual inference, clinical epidemiology

Harbin Medical University   *China*

M.Sc. in Epidemiology and Biostatistics   *Sept. 2018 - Jun. 2021*

- Advisor: Yan Liu
- Research fields: Biostatistics, data science, artificial intelligence

Harbin Medical University   *China*

B.Sc. in Preventive Medicine   *Sept. 2013 - Jun. 2018*

- School of Public Health

Work Experience

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

Statistician I   *Jul. 2021 - Mar. 2022*

- Specialized in statistical methods and SAS programming in clinical trials

Publications

Representative Journal Articles [3/27] (* 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. (Advisor as first author, JCR Q1, IF 17.033).

2. **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. (JCR Q1, IF 14.557).

3. 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**	*Sun Yat-sen University, 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