Zhen Lu

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Education

Sun Yat-sen University *China*
Ph.D. candidate in Epidemiology and Biostatistics *Sept. 2022 - Present*
- Advisor: Huachun Zou, Siyang Liu
- Research fields: Biostatistics, casual inference, artificial intelligence, clinical epidemiology

Harbin Medical University *China*
M.Sc. in 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 biostatistics methods and statistical programming in clinical trials

Publications

Representative Journal Articles [3/25] (* 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 H.Zou 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

2023 **Non-therapeutic clinical diagnosis system for neurological syphilis based on machine learning**, LU504466 (rank 1/1)

Honors & Awards

2024 **Cover image of Journal of Medical Virology**, Volume 96, Number 1, January 2024
2019 **Scholarship**, Harbin Medical University

Teaching Experience

2022-24 Teaching Assistant of Epidemiology, Sun Yat-sen University
2023 Teaching Assistant of English for Public Health, Sun Yat-sen University
2022-23 Teaching Assistant of Biostatistics, Sun Yat-sen University
2018-19 Teaching Assistant of Biostatistics, Harbin Medical University

Service & Outreach

Personal WeChat Official Account about Biostatistics

OWNER

- Authored posts about biostatistics, machine learning, deep learning, and coding tips of SAS, R 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 researchers, master and bachelor students on biostatistics and academic writing

Skills

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