



Zhen Lu

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

Shanghai, China

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Education

Sun Yat-sen University

PH.D. CANDIDATE IN EPIDEMIOLOGY AND BIostatISTICS

China

Sept. 2022 - Present

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

Harbin Medical University

M.Sc. IN BIostatISTICS

China

Sept. 2018 - Jun. 2021

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

Harbin Medical University

B.Sc. IN PREVENTIVE MEDICINE

China

Sept. 2013 - Jun. 2018

- School of Public Health

Work Experience

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

STATISTICIAN I

Shanghai, China

Jul. 2021 - Mar. 2022

- Specialized in biostatistics methods and statistical programming in clinical trials

Publications

REPRESENTATIVE JOURNAL ARTICLES [10/24] (* 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 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](https://doi.org/10.2196/43555). (JCR Q1, IF 14.557).
3. **Z. Lu**, X. Zhou, L. Fu, Y. Li, T. Tian, Q. Liu, and H. Zou. "Prognostic prediction models for oropharyngeal squamous cell carcinoma (OPSCC): a protocol for systematic review, critical appraisal and meta-analysis". *BMJ Open* 13.10 (2023), e073375. doi: [10.1136/bmjopen-2023-073375](https://doi.org/10.1136/bmjopen-2023-073375). (JCR Q2, IF 3.007).
4. 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).
5. T. Tian, L. Fu, **Z. Lu***, J. Bian, X. Zhou, B. Wang, Y.-F. Lin, Z. Zhang, L. Liu, M. Xi, C. Zhen, J. Dai, and H. Zou. "Changes in HPV prevalence, incidence, and clearance following the use of HIV pre-exposure prophylaxis (PrEP) among MSM in Xinjiang, China: An observational cohort study". *Journal of Medical Virology* 95.9 (2023), e29112. doi: [10.1002/jmv.29112](https://doi.org/10.1002/jmv.29112). (JCR Q1, IF 12.7).
6. X. Zhou, T. Tian, **Z. Lu***, Y.-F. Yu, Y. Li, Y. Zhou, Y.-F. Lin, C. Strong, and H. Zou. "Incidence, persistence, and clearance of anogenital human papillomavirus among men who have sex with men in Taiwan: a community cohort study". *Frontiers in Immunology* 14 (2023). doi: [10.3389/fimmu.2023.1190007](https://doi.org/10.3389/fimmu.2023.1190007). (JCR Q1, IF 8.787).
7. L. Fu, T. Tian, B. Wang, **Z. Lu***, Y. Gao, Y. Sun, Y.-F. Lin, W. Zhang, Y. Li, and H. Zou. "Global patterns and trends in Kaposi sarcoma incidence: a population-based study". *The Lancet Global Health* 11.10 (2023), e1566–e1575. doi: [10.1016/S2214-109X\(23\)00349-2](https://doi.org/10.1016/S2214-109X(23)00349-2). (JCR Q1, IF 38.927).
8. L. Fu, T. Tian, B. Wang, **Z. Lu***, J. Bian, W. Zhang, X. Wu, X. Li, R. C. Siow, E. F. Fang, N. He, and H. Zou. "Global, regional, and national burden of HIV and other sexually transmitted infections in older adults aged 60–89 years from 1990 to 2019: results from the Global Burden of Disease Study 2019". *The Lancet Healthy Longevity* 5.1 (2024), e17–e30. doi: [10.1016/s2666-7568\(23\)00214-3](https://doi.org/10.1016/s2666-7568(23)00214-3). (IF 13.1).

9. B. Wang, X. Peng, L. Fu, **Z. Lu***, X. Li, T. Tian, X. Xiao, W. Zhang, Z. Guo, L. Ouyang, Y. Wang, M. Yu, G. Wu, D. Wu, W. Tang, J. D. Tucker, Y. Cai, and H. Zou. "Sexual function and correlates among adults aged 50+ years in China: Findings from the sexual well-being (SWELL) study". *Journal of the American Geriatrics Society* (2024). doi: <https://doi.org/10.1111/jgs.18789>. (JCR Q1, IF 6.3).
10. B. Wang, X. Peng, B. Liang, L. Fu, **Z. Lu***, X. Li, T. Tian, X. Xiao, J. Liu, T. Shi, L. Ouyang, Y. Wang, M. Yu, G. Wu, D. Wu, W. Tang, J. D. Tucker, Y. Cai, and H. Zou. "Sexual activity, sexual satisfaction and their correlates among older adults in China: findings from the sexual well-being (SWELL) study". *The Lancet Regional Health - Western Pacific* (2023), p. 100825. doi: [10.1016/j.lanwpc.2023.100825](https://doi.org/10.1016/j.lanwpc.2023.100825). (JCR Q1, IF 8.559).

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