



**Hao LAI** (He/His/Him)

PhD Candidate in Epidemiology & Health Statistics

[Google Scholar](#) [ResearchGate](#) [GitHub](#) [ORCID: 0000-0003-0277-9364](#)

**Born:** May 1998

**Phone:** (+86) 182-9203-9079

**Email:** [xjtu.haolai@gmail.com](mailto:xjtu.haolai@gmail.com)

## RESEARCH INTERESTS & METRICS

**Research Areas:** Epidemiology and Statistics, Mathematical Modelling, Clinical Trial, Health Economics

**Academic Impact:** Total Citations: 310 (as of 2026) | Highest Citation: 182 | h-index: 7

**Peer Review:** Nature Communications, BMC Medicine, Vaccine, Food Science & Nutrition

## EDUCATION

### Xi'an Jiaotong University

PhD in Epidemiology and Health Statistics

Xi'an, China

Sep. 2021 - Present

### Monash University

Joint-PhD Researcher / Research Assistant

Melbourne, Australia

Sep. 2023 - Jan. 2025

### Xi'an Jiaotong University

BM in Preventive Medicine (GPA: 3.78/4.00)

Xi'an, China

Sep. 2016 - Jun. 2021

## SKILLS

**Computer:** Python, R, MATLAB, Microsoft Office for mathematical modeling, health-economic evaluation, microbiome analysis, and visualization

**Language:** Native Chinese, fluent English (oral presentation at IUSTI 2024)

## ACHIEVEMENTS

- **Tencent Scholarship:** High-Level Applied Public Health Talents Training Innovative Program Nov. 2024
- **Xi'an Jiaotong University Innovative Leading Talents Scholarship** Sep. 2023 - Jan. 2025
- **10th China University Student Medical Technology and Skills Competition (Bronze)** May 2021

## PUBLICATIONS

1. **Lai H**, Ong JJ, Traeger MW, et al. Impact and cost-effectiveness of doxycycline post-exposure prophylaxis in Australian men who have sex with men. *Nat Commun* 2026 (CAS Q1, IF=15.7)
2. **Lai H‡**, Li Y‡, He Y, et al. Effects of dietary fibers or probiotics on functional constipation symptoms and roles of gut microbiota: a double-blinded randomized placebo trial. *Gut Microbes* 2023;15:2197837 (CAS Q1, IF=12.2, ESI Highly Cited)
3. **Lai H**, Fairley CK, Li R, et al. Impact and cost-effectiveness of regular self-digital anorectal examination on syphilis among gay, bisexual, and other men who have sex with men: a mathematical modelling study. *J Infect Dis* 2025 (CAS Q2, IF=5.0, Editor's Choice)
4. **Lai H**, Li R, Li Z, et al. Modelling the impact of treatment adherence on the transmission of HIV drug resistance. *J Antimicrob Chemother* 2023;78:1934-43 (CAS Q2, IF=3.9)
5. **Lai H‡**, Tao Y‡, Shen M, et al. What Is the Impact of Early and Subsequent Epidemic Characteristics on the Pre-delta COVID-19 Epidemic Size in the United States? *Pathogens* 2022;11:576 (CAS Q3, IF=3.3)
6. Liu X, **Lai H**, Mi B, et al. Associations of Coarse Grain Intake with Undiagnosed Hypertension among Chinese Adults: Results from the China Kadoorie Biobank. *Nutrients* 2020;12:3814 (CAS Q2, IF=4.8)
7. Wei Y‡, Li Z‡, **Lai H**, et al. Instant Coffee Is Negatively Associated with Telomere Length: Finding from Observational and Mendelian Randomization Analyses of UK Biobank. *Nutrients* 2023;15:1354 (CAS Q2, IF=4.8)
8. Shen M, **Lai H**, Zhang L. Targeted interventions for individuals at high risk is essential for mpox control. *Lancet Infect Dis* 2024;24:8-9 (CAS Q1, IF=36.4, Commentary)

Note: ‡ Co-first author