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教授

医学统计学系

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学术简历

受教育经历

2012.9-2016.5 瑞士热带病与公共卫生研究所/巴塞尔大学 流行病学博士
2010.9-2012.2 瑞士热带病与公共卫生研究所/巴塞尔大学 感染性生物学与流行病学硕士
2005.9-2008.7 北京大学数学科学学院 数学与应用数学本科双学位
2003.9-2008.7 北京大学公共卫生学院 预防医学学士

工作经历

2023.6-至今 中山大学公共卫生学院 教授 (博士生导师)
2016.8-2023.5 中山大学公共卫生学院 副教授 (博士生导师)
2012.3-2012.8 瑞士热带病与公共卫生研究所 研究助理

社会兼职

中国卫生信息学会统计理论与方法专业委员会委员
广东省生物统计学会青年委员会副主任委员
多个国际期刊的同行评审

主要承担或参与的课题

主持科研项目:

- 中山大学“百人计划”资助项目, 2016-09-01至 2019-08-31
- 华支睾吸虫病在流行地区的预防性化疗策略: 基于疾病传播模型和成本效益分析的研究, 广东省自然科学基金-自由申请项目 (2017A030313704), 2017-05-01至 2020-05-01
- 基于异质性调查数据的贝叶斯地理统计联合模型的开发和应用, 国家自然科学基金-青年科学基金项目 (81703320), 2018-01-01至 2020-12-31
- Innovative assessment tool to optimize spatial equity of healthcare system in China, CMB Open

Competition program (Grant 17-274), 2018-01-01 to 2020-12-31

5. 基于时空传播动力学模型联合地理统计模型的传染病时空建模方法的开发与应用, 国家自然科学基金-面上基金项目 (82073665), 2021-01-01至 2024-12-31

6. 高流行地区华支睾吸虫病传播的时空主体模型的构建和应用, 广东省自然科学基金-面上项目 (2022A1515010042), 2022-01-01至 2024-12-31

发表的主要文章

1. Xiao HY, Chai JY, Fang YY, **Lai YS[#]** (2023). The spatial-temporal risk profiling of *Clonorchis sinensis* infection over 50 years implies the effectiveness of control programs in South Korea: a geostatistical modeling study. *Lancet Regional Health Western Pacific*, doi: 10.1016/j.lanwpc.2023.100697.
2. Zou Q, **Lai Y[#]**, Lun ZR (2023). Exploring the Association between Oxygen Concentration and Life Expectancy in China: A Quantitative Analysis. *International Journal Environmental Research and Public Health*, doi: 10.3390/ijerph20021125.
3. Wei-Hua Hu^{*}, Yu-Yang Liu^{*}, Cong-Hui Yang, Tong Zhou, Chun Yang, **Ying-Si Lai[#]**, Jing Liao[#], Yuan-Tao Hao (2022). Developing and validating a Chinese multimorbidity-weighted index for middle-aged and older community-dwelling individuals. *Age Ageing*, doi: 10.1093/ageing/afab274.
4. Wen-Rui Cao^{*}, Qiu-Ru Huang^{*}, Nan Zhang^{*}, Hui-Juan Liang, Ben-Song Xian, Xiao-Fang Gan, Dong Roman Xu, **Ying-Si Lai[#]** (2022). Mapping the travel modes and acceptable travel time to primary healthcare institutions: A case study in Inner Mongolia Autonomous Region, China. *Journal of Transport Geography*, doi: 10.1016/j.jtrangeo.2022.103381.
5. He YT, Huang XH, Fang YY, Zeng QS, Li LD, Luo L, **Lai YS[#]** (2022). Cost-effectiveness evaluation of different control strategies for *Clonorchis sinensis* infection in a high endemic area of China: A modelling study. *PLoS Neglected Tropical Diseases*, doi: 10.1371/journal.pntd.0010429.
6. Huang SY, **Lai YS[#]**, Fang YY[#] (2022). The spatial-temporal distribution of soil-transmitted helminth infections in Guangdong Province, China: A geostatistical analysis of data derived from the three national parasitic surveys. *PLoS Neglected Tropical Diseases*, doi: 10.1371/journal.pntd.0010622.
7. Ting-Ting Zhao, Yi-Jing Feng, Pham Ngoc Doanh, Somphou Sayasone, Virak Khieu, Choosak Nithikathkul, Men-Bao Qian, Yuan-Tao Hao, **Ying-Si Lai[#]** (2021). Model-based spatial-temporal mapping of opisthorchiasis in endemic countries of Southeast Asia. *eLife*, doi: 10.7554/eLife.59755.
8. Wen-Rui Cao, Prabin Shakya, Biraj Karmacharya, Dong Roman Xu, Yuan-Tao Hao, **Ying-Si Lai[#]** (2021). Equity of geographical access to public health facilities in Nepal. *BMJ Global Health*, doi: 10.1136/bmjgh-2021-006786.
9. Chuchun Wen, Xiaoliang Huang, Lifen Feng, Long Chen, Wei Hu, **Yingsi Lai[#]**, Yuantao Hao (2021). High-resolution age-specific mapping of the two-week illness prevalence rate based on the National Health Services Survey and geostatistical analysis: a case study in Guangdong province, China. *International Journal of Health Geography*, doi: 10.1186/s12942-021-00273-1.
10. Chenyang Feng, Ruixue Li, Abu Ahmed Shamim, Md Barkat Ullah, Mengjie Li, Rubee Dev, Yijing Wang, Tingting Zhao, Jing Liao, Zhicheng Du, Yuheng Ling, **Yingsi Lai[#]**, Yuantao Hao (2021). High-resolution mapping of reproductive tract infections among women of childbearing age in Bangladesh: a spatial-temporal analysis of the demographic and health survey. *BMC Public Health*, doi: 10.1186/s12889-021-10360-4.
11. Xiao-Hong Huang, Men-Bao Qian, Guang-Hu Zhu, Yue-Yi Fang, Yuan-Tao Hao, **Ying-Si Lai[#]** (2020). Assessment of control strategies against *Clonorchis sinensis* infection based on a multi-group dynamic transmission model. *PLoS Neglected Tropical Diseases*, doi: 10.1371/journal.pntd.0008152.
12. Ruixue Li^{*}, **Yingsi Lai^{*}**, Chenyang Feng, Rubee Dev, Yijing Wang, Yuantao Hao[#] (2020). Diarrhea in under Five Year-Old Children in Nepal: A Spatiotemporal Analysis Based on Demographic and Health Survey Data. *International Journal Environmental Research and Public Health*, doi: 10.3390/ijerph17062140.
13. **Ying-Si Lai**, Patricia Biedermann, Akina Shrestha, Frédérique Chammartin, Natacha À Porta, Antonio Montresor, Nerges F Mistry, Jürg Utzinger, Penelope Vounatsou[#] (2019). Risk profiling of soil-transmitted helminth infection and estimated number of infected people in South Asia: A systematic review and Bayesian geostatistical Analysis. *PLoS Neglected Tropical Diseases*, doi: 10.1371/journal.pntd.0007580.1.
14. **Lai YS**, Zhou XN, Pan ZH, Utzinger J, Vounatsou P (2017). Risk mapping of clonorchiasis in the People's Republic of China: A systematic review and Bayesian geostatistical analysis. *PLoS Neglected Tropical Diseases*, doi: 10.1371/journal.pntd.0005239.
15. Lo NC[#], **Lai YS**, Karagiannis-Voules DA, Bogoch II, Coulibaly JT, Bendavid E, et al (2016). Assessment of global guidelines for preventive chemotherapy against schistosomiasis and soil-transmitted helminthiasis: a cost-effectiveness modelling study. *Lancet Infectious Diseases*, doi: 10.1016/S1473-3099(16)30073-1.
16. **Ying-Si Lai**, Patricia Biedermann, Uwem F Ekpo, Amadou Garba, Els Mathieu, Nicholas Midzi, Pauline Mwinzi, Eliézer K N'Goran, Giovanna Raso, Rufin K Assaré, Moussa Sacko, Nadine Schur, Idrissa Talla, Louis-Albert Tchuem Tchuente, Seydou Touré, Mirko S Winkler, Jürg Utzinger, Penelope Vounatsou[#] (2015). Spatial distribution of schistosomiasis and treatment needs in sub-Saharan Africa:



a systematic review and geostatistical analysis. *Lancet Infectious Diseases*, doi: 10.1016/S1473-3099(15)00066-3.

招生专业

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