

# Fuyu Guo

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## Education

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**Harvard University**, Boston, the United States 09/2023 – present  
*Ph.D. in Population Health Science, Epidemiology methods track*  
Advisor: James Robins

**Harvard University**, Boston, the United States 09/2021 – 05/2023  
*Master of Science, Epidemiology, methods track*  
Advisor: Molin Wang, thesis: “Comparison between inverse-probability weighting and multiple imputation in Cox model with missing failure subtype”

**School of Public Health, Peking University**, Beijing, China 09/2016 – 07/2021  
*Bachelor of Medical Science*

**School of National Development, Peking University**, Beijing, China 09/2017 – 07/2021  
*Bachelor of Economics*

## Working Experience

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Research Assistant, **Harvard University**, Boston, the United States 07/2022 – 07/2024

## Teaching Experience

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*As a teaching assistant, I have taught*

### Harvard University

2022 Fall

1. ID 201: Core principles of Biostatistics and Epidemiology for Public

2023 Fall

2. EPI 201: Introduction to Epidemiology: Methods I
3. EPI 202: Epidemiologic Methods 2: Elements of Epidemiologic Research
4. EPI 207: Advanced Epidemiologic Methods

2024 Spring

5. BST 210: Applied Regression Analysis
6. BST 206: Introductory Statistics for Medical Research

2024 Fall

7. EPI 207: Advanced Epidemiologic Methods

### Peking University

2021 Spring

8. Introduction to Machine Learning

## Honor and rewards

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Distinction in teaching during the academic year 2023-2024, *Harvard Biostatistics Department*

## Publications

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\*represents co-first author, ORCID: 0000-0001-8437-8702

### Biostatistics

1. **Guo, Fuyu**, et al. New Quadratic Discriminant Analysis Algorithms for Correlated Audiometric Data. *Statistics in Medicine* 43.29 (2024): 5473-5483.
2. **Guo F**, Langworthy B, Ogino S, Wang M. Comparison between inverse-probability weighting and multiple imputation in Cox model with missing failure subtype. *Statistical Methods in Medical Research*. 2024;33(2):344-356. doi:10.1177/09622802231226328

### Epidemiology

3. **Fuyu Guo**, Emma E McGee, Yu-Han Chiu, Edward Giovannucci, Lorelei A Mucci, Barbra A Dickerman, Evaluating recommendation-based dietary and physical activity strategies for prostate cancer prevention: a target trial emulation in the Health Professionals Follow-up Study, *American Journal of Epidemiology*, Volume 194, Issue 2, February 2025,

Pages 449–459, <https://doi.org/10.1093/aje/kwae184>

4. Yang, Lei\*, **Fuyu Guo**\*, Ning Wang, Shuo Liu, Xi Zhang, Huichao Li, Qingyu Li, Tao Xue, Qingyang Xiao, Xin Li, Hengyi Liu, Mingkun Tong, Pengfei Li, Aiguo Ren, and Jiafu Ji. 2021. “Urban Greenness and Survival in Lung Cancer Patients: A Registry-Based Cohort Study in Beijing.” *Ecotoxicology and Environmental Safety* 228:113042. doi: 10.1016/j.ecoenv.2021.113042.
5. Liu, Hengyi, Mingkun Tong, **Fuyu Guo**, Qiyue Nie, Jiwei Li, Pengfei Li, Tong Zhu, and Tao Xue. “Deaths attributable to anomalous temperature: A generalizable metric for the health impact of global warming.” *Environment international* 169: 107520.
6. Li, Jiajianghui, Tianjia Guan, Qian Guo, Guannan Geng, Huiyu Wang, **Fuyu Guo**, Jiwei Li, and Tao Xue. 2021. “Exposure to Landscape Fire Smoke Reduced Birthweight in Low- and Middle-Income Countries: Findings from a Siblings-Matched Case-Control Study.” *ELife* 10. doi: 10.7554/elife.69298.
7. Wang, Huiyu, Hengyi Liu, **Fuyu Guo**, Jiajianghui Li, Pengfei Li, Tianjia Guan, Yao Yao, Xiaozhen Lv, and Tao Xue. 2021. “Association Between Ambient Fine Particulate Matter and Physical Functioning in Middle- Aged and Older Chinese Adults: A Nationwide Longitudinal Study” edited by L. Lipsitz. *The Journals of Gerontology: Series A*. doi: 10.1093/gerona/glab370.
8. Yang, L., Wang, N., Liu, S., Xiao, Q., Geng, G., Zhang, X., Li, H., Zheng, Y., Guo, F., Li, Q. and Li, J., 2022. The PM2. 5 concentration reduction improves survival rate of lung cancer in Beijing. *Science of The Total Environment*, p.159857.
9. Jin Zhao, **Fuyu Guo**, Kai Wang, Hanxiyue Zhang, Wenzhen Cao, Jiayi Hee, Yuan Yuan, Minne Chen, and Kun Tang. 2021. “Effects of an Internet-Based and Teacher-Facilitated Sexuality Education Package: A Cluster-Randomized Trial.” *Children* 8(10):885. doi: 10.3390/children8100885.
10. **Guo, Fuyu**, Xinran Qi, Huayi Xiong, Qiwei He, Tingkai Zhang, Siyu Zou, Hanyu Wang, Rie Takesue, and Kun Tang. 2021. “Trends of Maternal Health Service Coverage in the Democratic Republic of the Congo: A Pooled Cross-Sectional Study of MICS 2010 to 2018.” *BMC Pregnancy and Childbirth* 21(1). doi: 10.1186/s12884-021-04220-7.
11. **Guo, Fuyu**, Huayi Xiong, Xinran Qi, Rie Takesue, B. M. Siyu Zou, PhD Qiwei He, Eric Frasco, Hanyu Wang, and Kun Tang. 2021. “Maternal Health-Seeking Behavior and Associated Factors in the Democratic Republic of the Congo.” *Health Education & Behavior* 109019812110104. doi: 10.1177/10901981211010438.

### Multi-discipline cooperation

12. Li, Shengxiao (Alex), Wanyang Hu, and **Fuyu Guo**. 2021. “Recent Relocation Patterns Among Older Adults in the United States.” *Journal of the American Planning Association* 1–15. doi: 10.1080/01944363.2021.1902842.
13. Wang Yu, **Fuyu Guo**, Jia Wei, Yu Zhang, Zechen Liu, and Yangmu Huang. 2020. “Knowledge, Attitudes and Practices in Relation to Antimicrobial Resistance amongst Chinese Public Health Undergraduates.” *Journal of Global Antimicrobial Resistance* 23:9–15. doi: 10.1016/j.jgar.2020.07.023.
14. Zhao, Shuangyu, **Fuyu Guo**, Jia Yi Hee, and Kun Tang. “The mediating role of sexual selection in the association of androgynous tendencies with decreasing sexual activeness among Chinese youths.” *Frontiers in Psychology*: 6094.

### Reviews

Journal of Big data, BMC Woman’s health, BMC Cancer

### Skills and Others

**Language:** Chinese (native), English (fluent)

TOEFL 110 (best speaking 24 writing 29), GRE (Verbal 153, Quantitative 168, Writing 3.5)

**Computer:** R, Stata, SAS, Server-based Linux

- R: over 4-year coding experience; Coursera accomplishment: Data Science: “Foundations using R Specialization”  
Datacamp accomplishment: over half of courses in “Data Scientist with R”
- SAS and Stata: reading and coding.
- Python (basics).
- Linux: using, editing, running programs on Linux-based server.