

# DAOYUAN LAI

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## EDUCATION

### Ph.D. in Statistics

Sep. 2020–Jun. 2024 (Expected)

Department of Statistics and Actuarial Science

The University of Hong Kong (HKU), Hong Kong, China

Advisors: Dr. Yan Dora Zhang & Prof. Pak Chung Sham

### B.S. in Statistics (*with distinction*)

Sep. 2016–Jun. 2020

Southern University of Science and Technology (SUSTech), Shenzhen, China

## RESEARCH INTERESTS

Statistical genetics, Bayesian methods, High-dimensional methods, Biomedical research, and Machine learning.

## PUBLICATIONS

### Articles (as the first author)

- **Lai, D.**, Zhang, Y. D., & Lu, J. (2022). Venous thromboembolism following two doses of COVID-19 mRNA vaccines in the US population, 2020–2022. *Vaccines* 10(8), 1317.
- **Lai, D.**, Lu, J., Lim, D., Wang, H., Huang, T. & Zhang, Y. D. (2023+). Risk of myocarditis after three doses of COVID-19 mRNA vaccines in the US, 2020–2022: a self-controlled case series study. *Under Review*.
  - Collaborated with clinicians and wrote two papers. Used a modified self-controlled case series model to study the association between the onset of two adverse events and COVID-19 mRNA vaccination based a US massive health care database.
- **Lai, D.**, Cai, Y., Chan, T., Gan, D., Hurson, A., & Zhang, Y. D. (2022). How to organise travel restrictions in the new future: lessons from the COVID-19 response in Hong Kong and Singapore. *BMJ Global Health* 7(2), e006975.
  - Collaborated with government officials, extracted information from massive government press releases, evaluated the effectiveness of Hong Kong COVID-19 restrictions and provided actionable recommendations for future policy practices.

### Articles (as a middle author)

- Wang, H., Wang, X., Li, T., **Lai, D.**, & Zhang, Y. D. (2022). Adverse effect signature extraction and prediction for drugs treating COVID-19. *Frontiers in Genetics*, 13, 1019940.
- Zhang, K., Xiong, C., Zhang, W., Liu, H., **Lai, D.**, Rong, Y., & Fu, C. (2019). Environmental features recognition for lower limb prostheses toward predictive walking. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 27(3), 465-476.

## AWARDS AND HONORS

Excellent Research Award, *Dept. of Stat. and Act. Sci., HKU*

2022–2023

Hung Hing Ying Scholarship, *HKU*

2022

Postgraduate Scholarship, *HKU*

2020

Outstanding Graduate Award, *Dept. of Stat. & Data Sci., SUSTech*

2020

Outstanding Undergraduate Scholarship, *SUSTech*

2017–2019

## POSTER PRESENTATION

Joint Statistical Meetings, Toronto, Canada

Aug. 2023

## TEACHING ASSISTANT

STAT3600 Linear Statistical Analysis, *HKU*

2020–2023

MAT7035 Computational Statistics (graduate-level), *SUSTech*

2019