

Yangjianchen Xu

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Education

2024 Ph.D. in Biostatistics, University of North Carolina at Chapel Hill
2019 B.S. in Statistics, Peking University

Professional Experience

2024–present Assistant Professor, Department of Statistics and Actuarial Science, University of Waterloo
2019–2024 Graduate Research Assistant, Department of Biostatistics, University of North Carolina at Chapel Hill

Awards & Honors

2024 **ICSA Student Paper Honorable Mention**
International Chinese Statistical Association (ICSA)
2024 **Delta Omega Honorary Society in Public Health Inductee**
Delta Omega
2024 **SPH Student Travel Expendable Travel Award**
Department of Biostatistics, University of North Carolina at Chapel Hill
2024 **Distinguished Student Paper Award**
International Biometric Society, Eastern North American Region (ENAR)
2023 **Student Paper Award**
Lifetime Data Science (LiDS) Section, ASA
2023 **Gillings Global Health Endowment Scholarship**
Department of Biostatistics, University of North Carolina at Chapel Hill
2023 **Graduate Student Transportation Grant**
The Graduate School, University of North Carolina at Chapel Hill
2017 **POSCO Asia Fellowship**
School of Mathematical Sciences, Peking University
2017 **Elite Undergraduate Program of Applied Mathematics and Statistics**
School of Mathematical Sciences, Peking University

Publications

[Google Scholar](#)

* Equal contribution

Peer-Reviewed Articles

1. Lin, D. Y.*, **Xu Y.***, Gu, Y., Sunny, S., Moore, Z., Zeng, D. Impact of booster vaccination interval on SARS-CoV-2 infection, hospitalization, and death. *International Journal of Infectious Diseases* **145**, 107084, (2024).
2. Lin, D. Y., Du, Y., **Xu, Y.**, Paritala, S., Donahue, M., Maloney, P. Durability of XBB.1.5 Vaccines against Omicron Subvariants. *New England Journal of Medicine* **399**(22), 2124–2127, (2024).
3. **Xu, Y.**, Zeng, D., Lin, D. Y. Proportional rates models for multivariate panel count data. *Biometrics* **80**(1), ujad011, (2024).
4. Lin, D. Y., Du, Y., **Xu, Y.**, Paritala, S., Donahue, M., Maloney, P. Effectiveness of XBB.1.5 Vaccines Against Omicron Subvariants. *Medical Research Archives* **12**(8), (2024).
5. **Xu, Y.**, Zeng, D., Lin, D. Y. Marginal proportional hazards models for multivariate interval-censored data. *Biometrika* **110**(3), 815–830, (2023).
6. Lin, D. Y.*, **Xu, Y.***, Gu, Y.*, Zeng, D., Wheeler, B., Young, H., Sunny, S., Moore, Z. Effects of COVID-19 vaccination and previous SARS-CoV-2 infection on Omicron infection and severe outcomes in children under 12 years of age: an observational cohort study. *The Lancet Infectious Diseases* **23**(11), 1257–1265, (2023).
7. Lin, D. Y., **Xu, Y.**, Gu, Y., Zeng, D., Sunny, S., Moore, Z. Durability of bivalent boosters against Omicron subvariants. *New England Journal of Medicine* **388**(19), 1818–1820, (2023).
8. Lin, D. Y., **Xu, Y.**, Gu, Y., Zeng, D., Wheeler, B., Young, H., Sunny, S., Moore, Z. Effectiveness of bivalent boosters against severe Omicron infection. *New England Journal of Medicine* **388**(8), 764–766, (2023).
9. Paritala, S., **Xu, Y.**, Du, Y., Donahue, M., Maloney, P., Lin, D. Y. Effectiveness of Bivalent Boosters Over Nine and Half Months. *Journal of Biotechnology and Biomedicine* **6**(4), 585–589, (2023).
10. Lin, D. Y., **Xu, Y.**, Zeng, D., Sunny, S. A Cost-Benefit Analysis of Bivalent Covid-19 Vaccines. *Journal of Biotechnology and Biomedicine* **6**(4), 551–553, (2023).
11. Lin, D. Y., Gu, Y., **Xu, Y.**, Wheeler, B., Young, H., Sunny, S., Moore, Z., Zeng, D. Association of primary and booster vaccination and prior infection with SARS-CoV-2 infection and severe COVID-19 outcomes. *JAMA* **328**(14), 1415–1426, (2022).
12. Lin, D. Y., Gu, Y., **Xu, Y.**, Zeng, D., Wheeler, B., Young, H., Sunny, S., Moore, Z. Effects of vaccination and previous infection on Omicron infections in children. *New England Journal of Medicine* **387**(12), 1141–1143, (2022).

Presentations

1. *Checking the Cox Regression Model with Interval-Censored Data*. Department of Statistics and Actuarial Science, University of Hong Kong, Hong Kong, China. Nov. 2024.

2. *Checking the Cox Regression Model with Interval-Censored Data*. 2024 ICSA Applied Statistics Symposium, Nashville, USA. June 2024.
3. *Proportional Rates Models for Multivariate Panel Count Data*. ENAR 2024 Spring Meeting, Baltimore, USA. Mar. 2024.
4. *Checking the Cox Regression Model with Interval-Censored Data*. Department of Biostatistics and Data Science, UTHealth School of Public Health, Houston, USA. Feb. 2024.
5. *Checking the Cox Regression Model with Interval-Censored Data*. Department of Statistics and Actuarial Science, University of Waterloo, Waterloo, Canada. Feb. 2024.
6. *Checking the Cox Regression Model with Interval-Censored Data*. Department of Statistics, University of California, Riverside, USA. Feb. 2024.
7. *Proportional Rates Models for Multivariate Panel Count Data*. Joint Statistical Meeting, Toronto, Canada. Aug. 2023.
8. *Proportional Rates Models for Multivariate Panel Count Data*. Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, USA. Apr. 2023.
9. *Marginal Proportional Hazards Models for Multivariate Interval-Censored Data*. ENAR 2023 Spring Meeting, Nashville, USA. Mar. 2023.
10. *Marginal Proportional Hazards Models for Multivariate Interval-Censored Data*. Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, USA. Nov. 2022.

Teaching

University of Waterloo

STAT 231 Statistics (Winter 2025)
STAT 330 Mathematical Statistics (Fall 2025)

Software

R packages

DOVE3: Durability of Effectiveness of Vaccination and Prior Infection

Professional Memberships

- American Statistical Association (ASA)
- Institute of Mathematical Statistics (IMS)
- Eastern North American Region (ENAR) of International Biometric Society
- International Chinese Statistical Association (ICSA)
- Statistical Society of Canada (SCC)

Professional Service

- Department service: Statistics and Biostatistics Seminar Committee (2024), ASA DataFest Committee (2025)
- Editorial board: *CHEST* (Statistical Reviewer 2025–present)
- Journal reviewer: *Biometrics*, *Annals of Applied Statistics*, *Statistics in Biosciences*, *CHEST*
- Conference reviewer: International Conference on Learning Representations (ICLR 2024, 2025), Conference on Neural Information Processing Systems (NeurIPS 2023, 2024), International Conference on Machine Learning (ICML 2023, 2024), AAAI Conference on Artificial Intelligence (AAAI 2025)
- Conference session chair: ENAR (2025)
- Conference session organizer: ICSA Applied Statistics Symposium (2025)

Last updated: April 11, 2025