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Education Background

2014—2018	Mathematics and Applied Mathematics, B.S. School of Mathematical Sciences, Peking University
2015—2018	Economics (double degree), B.E. National School of Development, Peking University
2018—2019	Human Rights, LL.M. Peking University Law School & The Raoul Wallenberg Institute of Human Rights and Humanitarian Law (RWI)
2018—2023	Statistics, Ph.D. School of Mathematical Sciences, Peking University

Work Experience

2023—2023	Visiting scholar Beijing International Center for Mathematical Research, Peking University
2023—Now	Postdoc research fellow Biostatistics Department, School of Public Health, University of Michigan

Research Interests

- 1) Causal inference in broken randomized experiments.
- 2) Survival analysis
- 3) Observational studies
- 4) Semiparametric theory

Publications

- [1] **Deng Y**, Zhou X-H. Methods to Control the Empirical Type I Error Rate in Average

- Bioequivalence Tests for Highly Variable Drugs. *Statistical Methods in Medical Research*. 2019.
- [2] You C, **Deng Y[#]**, Hu W, Sun J, Lin Q, Zhou F, Pang CH, Zhang Y, Chen Z, Zhou X-H. Estimation of the Time-Varying Reproduction Number of COVID-19 Outbreak in China. *International Journal of Hygiene and Environmental Health*. 2020.
- [3] **Deng Y**, You C, Liu Y, Qin J, Zhou X-H. Estimation of Incubation Period and Generation Time Based on Observed Length-biased Epidemic Cohort with Censoring for COVID-19 Outbreak in China. *Biometrics*. 2020.
- [4] **Deng Y**, Chen F, Li Y, Qian K, Wang R, Zhou X-H. A Powerful Test for the Maximum Treatment Effect in Thorough QT/QTc Studies. *Statistics in Medicine*. 2021.
- [5] **Deng Y**, Zhou X-H. Caution about truncation-by-death in clinical trial statistical analysis: a lesson from Remdesivir. *China CDC Weekly*. 2021.
- [6] He Y, **Deng Y[#]**, You C, Zhou X-H. Equivalence Tests for Ratio of Means in Bioequivalence Studies under Crossover Design. *Statistical Methods in Medical Research*. 2022.
- [7] **Deng Y**, Chang Y, Zhou X-H. Causal Inference with Truncation-by-Death and Confounded Principal Strata. *ArXiv preprint*. 2022.
- [8] Wu P, Li H[#], **Deng Y**, Hu W, Dai Q, Dong Z, Sun J, Zhang R, Zhou X-H. On the Opportunity of Causal Learning in Recommendation Systems: Foundation, Estimation, Prediction and Challenges. *IJCAI Survey Track*. 2022.
- [9] **Deng Y**, Wang Y, Zhan X, Zhou X-H. Separable Pathway Effects of Semi-competing Risks using Multi-State Models. *ArXiv Preprint*. 2023.
- [10] **Deng Y**, Wang Y, Zhou X-H. Direct and Indirect Effects in the presence of Semi-competing risks. *Biometrics*. 2024.
- [11] Wang Y, **Deng Y[#]**, Zhou X-H. Causal Inference for Time-to-Event Data with A Cured Subpopulation. *Biometrics*. 2024.
- [12] **Deng Y**, Han S[#], Zhou X-H. Causal Estimands and Inference in Randomized Controlled Trials with Time-to-Event Outcomes. *ArXiv Preprint*. 2024.
- [13] **Deng Y**, Guo Y, Zhou X-H. Causal Pathways of Truncation-by-Death Using Sure Outcomes of Random Events Models. *Manuscript*.

Software

- [1] Wu P, Hu W, Deng Y, Zhou X-H. CSTE: Covariate Specific Treatment Effect Curve. CRAN: Package CSTE. 2021.

Academic Activities

Anonymous reviewers for

- (1) *Statistics in Medicine*, (2) *Biostatistics & Epidemiology*, (3) *Journal of Causal Inference*, (4) *Science China--Mathematics*, (5) *Sankhya*

Member of Chinese Association for Applied Statistics

Teaching

(1) Causal inference, (2) Intermediate econometrics, (3) Mathematical statistics, (4) Probability and statistics, (5) Stochastic process, (6) Linear algebra.