Xiangyu Yu

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Education

University of California, Berkeley MA-PhD program in Biostatistics — Aug 2021 ▸ Now

Graduate Division of Biostatistics, School of Public Health. Overall GPA: 4.0/4.0

Degree Conferred: ***Master of Arts*** *in* ***Biostatistics****, August 2023*

Degree Seeking: ***Doctor of Philosophy*** *in* ***Biostatistics****, expected August 2025*

Peking University Beijing, China — Sep 2016 ▸ Jul 2020

Department of Probability and Statistics, School of Mathematical Sciences. Major GPA: 3.8/4.0

Degree Conferred: ***Bachelor of Science*** *in* ***Statistics*** *&* ***Bachelor of Economics****, July 2020 (double-major)*

Skills

</> Programming Language	R	Python	C++	SQL	Java
Software & Environment	LaTeX	Git	Matlab	Stata	Linux
Open (ML) Libraries	pandas	tidyverse	scikit-learn	PyTorch	tlverse

Beginner Average Master

Math Competition Awards

31st China Mathematical Olympiad, Gold Medal Yingtan, China — Dec 2015

Rank #2, selected into national candidate team of International Mathematical Olympiad

30th China Mathematical Olympiad, Gold Medal Changsha, China — Dec 2014

International Mathematical Contest in Modeling, Meritorious Winner — Jan 2018

S.-T. Yau College Student Math Team Tournament, Finalist Beijing, China — May 2019

Research Experience

Highlights: I have extensive experience across diverse fields of statistics, from methodology to real-world studies. I am deeply intrigued by data mining from raw and complex datasets, digging the signals out of noise and unveiling the knowledge hidden under confoundedness, missingness or dimensional complicatedness.

Graduate Student Researcher — Jun 2023 ▸ Now

- Advisor: Prof. Jason Corburn at UC Berkeley;
- Evaluate Advance Peace project via comparative time-series analysis using synthetic control methods;
- Investigate the individual effects of crime control measures with generalized random forests;

Graduate Student Researcher — Jan 2022 ▸ Dec 2022

- Advisor: Prof. Nicholas Jewell at UC Berkeley and LSHTM;
- Analyze the data from Applying *Wolbachia* to Eliminate Dengue (AWED) trial;
- Model the spatio-temporal effects of vector control strategy using NN-based kernel smoother;

Summer Student Intern — Jul 2019 ▸ Sep 2019

- Advisor: Prof. Rui Wang at Harvard Medical School and HPHCI;
- Propose finite sample adjusted second order GEE for cluster randomized trials;

Undergraduate Researcher Jan 2019 ▸ May 2019

- Advisor: Prof. Xiao-Hua (Andrew) Zhou and Prof. Wang Miao at Peking University;
- Develop causal interpretable data fusion methods in meta-analysis;
- Develop robust efficiency-improving estimators for multi-center clinical trials;

Research Articles

Johnson, J., Yu, X. †, Dufault, S. M., Jewell, N. P. (2023). Spatio-Temporal Effects on Dengue Incidence Based on a Large Cluster Randomised Study. *Statistical Methods in Medical Research, in submission.*

Yu, X. (2023). Dengue Serotype-Specific Analysis on Spatial-Temporal Effects in a Cluster Randomized Test-Negative Study with Fixed and Adaptive Kernels. *University of California, Berkeley, master's thesis.*

Yu, X. (2020). Causal Inferences in Clinical Trials: Data Fusion of A Multi-center Clinical Trial. *Peking University, bachelor's thesis.*

⋆*: first author,* †*: co-first author*