

# JIAHUI XIN

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## EDUCATION

- **University of Cambridge, MRC Biostatistics Unit** Jan. 2026 – Present  
Visiting Ph.D. Student  
◦ Hosted by **Dr. David Robertson**. Cambridge, UK
- **Renmin University of China, Institute of Statistics and Big Data** Sept. 2021 – June 2026 (Expected)  
Ph.D. Candidate in Statistics  
◦ GPA: 3.84/4.0  
◦ Supervised by **Prof. Wei Ma**. Beijing, China
- **University of Science and Technology of China, Special Class for the Gifted Young** Sept. 2016 – June 2021  
B.S. in Statistics  
◦ Major GPA: 3.95/4.3, Total GPA: 3.75/4.3  
◦ Initially majored in Physics (Sept. 2017 – June 2018). Hefei, China

## PAPERS

- [1] **On the Achievability of Efficiency Bounds for Covariate-Adjusted Response-Adaptive Randomization.**  
Jiahui Xin and Wei Ma.  
Statistical Methods in Medical Research, 2025.
- [2] **Cross-Validation Model Averaging under Covariate-Adaptive Randomization.**  
Fuyi Tu, Jiahui Xin and Wei Ma.  
Under Review at Statistica Sinica.
- [3] **Covariate-Adaptive Randomization with Many Strata: Asymptotic Theory and Statistical Inference.**  
Jiahui Xin, Hanzhong Liu, Feifang Hu and Wei Ma.  
In preparation for submission to Journal of the American Statistical Association; early version available on arXiv:2405.18856.
- [4] **Covariate-Adaptive Enrollment for Single-Arm Trials.**  
Jiahui Xin, Hengjia Fang, Zhiyue Huang, Satoshi Yoshida and Wei Ma.  
Working paper.

## TALKS

- **Drug Information Association, Quantitative Science Forum** 2025  
Invited Speaker Nanjing, China
- **Chinese Statistical Association of Young Statisticians, Ph.D. Student Forum** 2025  
Travel Award & Oral Presentation Jinan, China
- **National Graduate Student Statistics Forum, Biostatistics and Epidemiology Section** 2024  
Selected Paper & Oral Presentation Beijing, China

## INTERNSHIP EXPERIENCE

- **Astellas Pharma** (Clinical Biometrics Function) June 2025 – Aug. 2025  
Clinical Biostatistics Intern, Adaptive Strategy Beijing, China  
◦ Mentors: **Dr. Zhiyue Huang** and **Satoshi Yoshida**.  
◦ Developed adaptive enrollment strategies for single-arm survival trials under practical covariate shift.
- **Honor Device** (R&D Management Department) July 2021  
R&D Intern, Audio Augmentation Nanjing, China  
◦ Mentor: **Dr. Lei Fang**.  
◦ Augmented synthetic speech with room-reverberation simulation to boost automatic speech recognition robustness.

## SPECIALIZED TRAINING

- **Causal Analyses of Complex Experiments** Dec. 2025  
Yau Mathematical Sciences Center, Tsinghua University Short course by Prof. Peng Ding (UC Berkeley)
- **Causal Inference and A/B Testing** July 2024 – Aug. 2024  
Guanghua School of Management, Peking University Business Analysis Workshop by Tencent
- **Reinforcement Learning** Dec. 2023  
Institute of Statistics and Big Data, Renmin University of China Short course by Prof. Chengchun Shi (LSE)
- **Topics and Recent Advances in Causal Inference** June, July & Dec. 2023  
Yau Mathematical Sciences Center, Tsinghua University Short course by Prof. Peng Ding (UC Berkeley)
- **Semiparametric Learning** July 2023  
Institute of Statistics and Big Data, Renmin University of China Short Course by Prof. Yanyuan Ma (Penn State)

TEACHING ASSISTANT EXPERIENCE

• Renmin University of China	Spring 2025
Adaptive Design and Reinforcement Learning	Beijing, China
• Renmin University of China	Fall 2024
Advanced Statistical Computation	Beijing, China
• Renmin University of China	Spring 2024
Advanced Applied Statistics and Data Analysis	Beijing, China
• Renmin University of China	Fall 2022
Statistical Models and Inference	Beijing, China
• University of Science and Technology of China	Spring 2020
Complex Analysis	Hefei, China
• University of Science and Technology of China	Spring 2019
Optics and Atomic Physics	Hefei, China

SKILLS

- **Programming & Tools:** R, Rcpp, Python
- **Languages:** Chinese (Native), English (Fluent)

REFEREES

• Dr. Wei Ma [🌐]	Oct. 2022 – Present
Ph.D. Supervisor	
◦ Associate Professor	
Institute of Statistics and Big Data	
Renmin University of China	
59 Zhongguancun Street	
Beijing 100872, China	
Email: <a href="mailto:mawei@ruc.edu.cn">mawei@ruc.edu.cn</a>	
• Dr. Hanzhong Liu [🌐]	Jan. 2023 – Present
Collaborator	
◦ Associate Professor	
Department of Statistics and Data Science	
Tsinghua University	
30 Shuangqing Road	
Beijing 100084, China	
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• Dr. Feifang Hu [🌐]	July 2025 – Present
Collaborator	
◦ Professor and Department Chair	
Department of Statistics	
George Washington University	
801 22nd St. NW	
Washington, DC 20052, USA	
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