

# JIAHUI XIN

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## RESEARCH INTERESTS

Adaptive Clinical Trial Design; Robust Causal Inference; Precision Medicine; Sequential Decision Making

## 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.  
Manuscript in preparation for submission to *Biometrika*; 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

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

## SKILLS

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- **Programming & Tools:** R, Rcpp, Python, Linux, Git
- **Relevant Coursework & Knowledge:** Reinforcement Learning, Active Learning, Markov Decision Processes, Causal Inference.

## REFEREES

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- **Dr. Wei Ma**   
*Ph.D. Supervisor*  
Oct. 2022 – Present  
◦ Associate Professor  
Institute of Statistics and Big Data  
Renmin University of China  
59 Zhongguancun Street  
Beijing 100872, China  
Email: [mawei@ruc.edu.cn](mailto:mawei@ruc.edu.cn)
- **Dr. Hanzhong Liu**   
*Collaborator*  
Jan. 2023 – Present  
◦ Associate Professor  
Department of Statistics and Data Science  
Tsinghua University  
30 Shuangqing Road  
Beijing 100084, China  
Phone: +86 10 6278 0575  
Email: [lh2016@tsinghua.edu.cn](mailto:lh2016@tsinghua.edu.cn)
- **Dr. Feifang Hu**   
*Collaborator*  
July 2025 – Present  
◦ Professor and Department Chair  
Department of Statistics  
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