

HUO YUYANG

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EDUCATION AND VISITING EXPERIENCE

Nankai University, Tianjin, China
Ph.D. candidate in Statistics
Advisor: Prof. Changliang Zou

Sep 2020 – Jun 2026 (expected)

Nankai University, Tianjin, China
B.S. in Statistics
Undergraduate Thesis Advisor: Prof. Changliang Zou

Sep 2016 – Jun 2020

National University of Singapore, Singapore
Visiting Ph.D. Student, funded by the China Scholarship Council (CSC)
Supervisors: Prof. Nan Chen and Prof. Tao Yu

Aug 2025 – Feb 2026

RESEARCH

Research Interest: Predictive inference; Multiple testing; Selective inference.

Published Papers:

1. Xiaoning Wang, **Yuyang Huo**, Liuhua Peng and Changliang Zou (2026). Learning U-statistics with Active Inference, *ICML*, accepted.
2. Yajie Bao, **Yuyang Huo**, Haojie Ren and Changliang Zou (2025). CAP: A General Algorithm for Online Selective Conformal Prediction with FCR Control, *Journal of Machine Learning Research*, 26(287), 1-74.
3. **Yuyang Huo**, Lin Lu, Haojie Ren and Changliang Zou (2024). Real-Time Selection Under General Constraints via Predictive Inference, *NeurIPS*, 37, 61267–61305.
4. Xiaoning Wang, **Yuyang Huo**, Liuhua Peng and Changliang Zou (2024). Conformalized Multiple Testing after Data-dependent Selection, *NeurIPS*, 37, 58574–58609.
5. Yajie Bao, **Yuyang Huo**, Haojie Ren and Changliang Zou (2024) Selective Conformal Inference with FCR Control, *Biometrika*, 11(3), 727-742.
6. Xiaoyang Wu, **Yuyang Huo**, Haojie Ren and Changliang Zou (2024). Optimal Subsampling via Predictive Inference. *Journal of the American Statistical Association*, 119(548), 2844–2856.
7. Xiaoyang Wu, **Yuyang Huo** and Changliang Zou (2023). Multi-split Conformal Prediction via Cauchy Aggregation. *Stat*, 12(1), e522.

Submitted Papers:

1. **Yuyang Huo**, Xiaoning Wang, Liuhua Peng and Changliang Zou (2026+). False Discovery Rate Control Over Data-driven Subgroups: A Unified Conformalized Approach, *Journal of the American Statistical Association*, reject & resubmit (under revision).
2. **Yuyang Huo**, Xiaoyang Wu, Changliang Zou and Haojie Ren (2026+). Unified Conformalized Multiple Testing with Full Data Efficiency, submitted to *Journal of the Royal Statistical Society, Series B (Statistical Methodology)*, under major revision.

3. Lin Lu, **Yuyang Huo**, Haojie Ren, Zhaojun wang and Changliang Zou (2026+). Feedback-Enhanced Online Multiple Testing with Applications to Conformal Selection, submitted to *Journal of Machine Learning Research*, reject & resubmit (under revision).

AWARDS AND GRANTS

- NSFC Basic Research Project for PhD Student: Distribution-free Post-selection Inference (124B2016); ¥300,000; 2025.01-2026.12; PI.
- Baosteel Scholarship (Students Award), 2025
- National Scholarship, Ministry of Education, China, 2023-2024
- Shiing-Shen Chern Scholarship, Nankai University, 2023-2024
- Second Prize, 8th National Doctoral Forum on Statistics, Chinese Association for Applied Statistics, 2023-2024
- Nankai University Postgraduate Gongneng Scholarship, 2020-2021 (First prize), 2022-2023 (Second prize)

TALKS

- **The 1st Southwest Joint Graduate School Doctoral Student Academic Exchange Conference**, Tianjin, China, Nov 25, 2024
CAP: A General Algorithm for Online Selective Conformal Prediction with FCR Control
- **Annual Conference of the Multivariate Analysis Application Committee**, Chongqing, China, Jun 8, 2025
False Discovery Rate Control over Data-Driven Subgroups: A Unified Conformalized Approach

TEACHING EXPERIENCE

- **Statistics and Big Data Software**, Teaching Assistant, Nankai University, 2020–2021 Semester 1, 2021–2022 Semester 1. Awarded “Outstanding Undergraduate Teaching Assistant”.
- **Multivariate Analysis**, Teaching Assistant, Nankai University, 2020–2021 Semester 2.