

David Kim

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EDUCATION

- **University of Illinois at Urbana-Champaign (UIUC), USA**
 - PhD Candidate in Statistics, 2020 - 2026(expected) Champaign, IL
- **Korea University, South Korea**
 - B.A. in Politics, 2020 Seoul, South Korea

RESEARCH INTEREST

Causal Inference, Permutation Inference, Time Series Inference, Multiple Hypothesis Testing

RESEARCH EXPERIENCE

PhD Student, University of Illinois at Urbana-Champaign (UIUC), USA 2020 - present

- Department of Statistics
- Advisor: Xinran Li, Jacob Bowers
 - Developed randomization inference in Causal Inference beyond sharp null by combining multiple rank-based statistics, both in completely randomized and stratified randomized experiments
 - Developed asymptotically valid two-sample permutation tests under more classical statistical setting, when the temporal dependence is presented on the data

MANUSCRIPTS IN PREPARATION

1. <Randomization Tests for Distributions of Individual Treatment Effects using Multiple Rank Statistics> (**David Kim**, Yongchang Su, Jake Bowers and Xinran Li) ([R Package](#))
2. <Asymptotically Valid Two-sample Permutation Tests under Dependence> (**David Kim**, EunYi Chung and Ji Hyung Lee)
3. <Structured Testing on Tree Graphs to Detect Block-Specific Effects in Block-Randomized Experiments> (Jake Bowers, **David Kim** and Nuole Chen)

CONFERENCE PRESENTATIONS

- <**Randomization Tests for Distributions of Individual Treatment Effects using Multiple Rank Statistics**>
 - a. Poster at American Causal Inference Conference(ACIC) 2025 Annual Meeting, Detroit, MI, 2025, May 15th (*presented by co-author*)
- <**Permutation Tests under Dependence**>
 - a. Poster and Presentation at Bohrer Memorial Student Workshop 2024, Department of Statistics, UIUC, April 20th, 2024
 - b. Poster at American Causal Inference Conference(ACIC) 2024 Annual Meeting, Seattle, WA, May 15th, 2024
 - c. Presentation at Midwest Econometrics Group(MEG) Conference 2025, Urbana, IL, October 4th, 2025

SCHOLARSHIP, AWARDS

- **Scholarship**
- 1. **Korea Student Aid Foundation, South Korea**
 - Full National Grant for Undergraduate Students in Humanities, 2013 - 2014, 2017-2019
- **Awards**
- 1. **Teachers Ranked as Excellent by Their Students, UIUC**
 - TA, STAT400(Statistics and Probability I), Spring 2021
 - TA, STAT207(Data Science Exploration), Spring 2024

SKILLS

- Programming: R, Python, SAS
- Language: Korean(*Native*), English(*Fluent*)

NATIONALITY

- US (Citizen), South Korea (Citizen)

REFERENCES

Xinran Li, Assistant Professor

Department of Statistics, University of Chicago
Member, Committee on Quantitative Methods in
Social, Behavioral, and Health Sciences
xinranli@uchicago.edu

Jake Bowers, Professor

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EunYi Chung, Associate Professor

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JiHyung Lee, Professor

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