Junhyung Chang

Contact Information

Department of Statistics, University of Wisconsin–Madison
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Education

Ph.D. Statistics, University of Wisconsin–Madison, Expected May 2028.
- Advisor: Dr. Joshua Cape.

M.S. Mathematics, Courant Institute, New York University, 2022.
- Thesis: Fast Gaussian processes for spatiotemporal data via hierarchical matrix compression. (Advisor: Dr. Michael O'Neil).

B.S. Mathematics & B.A. Economics, Yonsei University, South Korea, 2020.

Research Interests

Fine-grained asymptotic and non-asymptotic distributional theory for singular subspaces. Low-rank matrix denoising.

Publications/ Preprints

Junhyung Chang and Joshua Cape. Extreme value theory for singular subspace estimation in the matrix denoising model. Submitted, 2025. arXiv preprint available at arXiv:2507.19978.

Presentations

Poster presentation. SLDS Conference. New York, 2026. (Best Poster Award, NSF-funded travel support by SLDS).

Contributed talk. Korean Statistical Society Summer Conference. Gyeongju, South Korea, 2026.

Contributed talk. Joint Statistical Meetings. Nashville, 2025.

Poster presentation. IRSA Conference: New Perspectives on the Analysis of Complex Multivariate Data. University of Minnesota, 2024. (Top 5 Poster Award).

Research Activities

IMSI Workshop: Recent Advances in Random Networks. 2026. (Travel supported by IMSI).

Random Matrix Theory Summer School. University of Michigan, 2024.

Honors and Awards

Co-Winner, Best Poster Award. SLDS Conference, 2026.

Summer Research Fellowship. Department of Statistics, UW–Madison, 2025.

Co-Winner, Best Poster Award. Student Poster Competition, Wisconsin Chapter of the American Statistical Association, 2024.

Honorable Mention, Outstanding Performance as a TA for Gateway Courses. Department of Statistics, UW–Madison, 2022–'23 academic year

Teaching Experience

Teaching Assistant:
- UW–Madison (2022–2025): Data Science Modeling I & II, Introduction to Time Series, Introductory Applied Statistics for Engineers.
- NYU Courant (2020–2022): Math for Economics I & II, Linear Algebra.