

## Junhyung Chang

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| CONTACT<br>INFORMATION      | Department of Statistics, University of Wisconsin–Madison<br>Email: <a href="mailto:jchang243@wisc.edu">jchang243@wisc.edu</a> Webpage: <a href="https://junhyungchang.github.io">https://junhyungchang.github.io</a>                                                                                                                                                                                                                                                          |
| EDUCATION                   | Ph.D. Statistics, University of Wisconsin–Madison, Expected May 2028. <ul style="list-style-type: none"><li>◦ Advisor: Dr. Joshua Cape.</li></ul><br>M.S. Mathematics, Courant Institute, New York University, 2022. <ul style="list-style-type: none"><li>◦ Thesis: Fast Gaussian processes for spatiotemporal data via hierarchical matrix compression. (Advisor: Dr. Michael O’Neil).</li></ul><br>B.S. Mathematics & B.A. Economics, Yonsei University, South Korea, 2020. |
| RESEARCH<br>INTERESTS       | Fine-grained asymptotic and non-asymptotic distributional theory for singular subspaces. Multivariate analysis for low-rank matrix structures.                                                                                                                                                                                                                                                                                                                                 |
| PUBLICATIONS/<br>PREPRINTS  | <b>Junhyung Chang</b> and Joshua Cape. Extreme value theory for singular subspace estimation in the matrix denoising model. Submitted, 2025. arXiv preprint available at <a href="https://arxiv.org/abs/2507.19978">arXiv:2507.19978</a> .                                                                                                                                                                                                                                     |
| CONFERENCE<br>PRESENTATIONS | Poster presentation. SLDS. New York, 2026. (Travel supported by SLDS).<br><br>Contributed talk. Korean Statistical Society Summer Conference. Gyeongju, South Korea, 2026.<br><br>Contributed talk. Joint Statistical Meetings. Nashville, 2025.<br><br>Poster presentation. IRSA Conference: New Perspectives on the Analysis of Complex Multivariate Data. University of Minnesota, 2024. (Top 5 Poster Award).                                                              |
| RESEARCH<br>ACTIVITIES      | IMSI Workshop: Recent Advances in Random Networks. 2026. (Travel supported by IMSI).<br><br>Random Matrix Theory Summer School. University of Michigan, 2024.                                                                                                                                                                                                                                                                                                                  |
| HONORS AND<br>AWARDS        | Summer Research Fellowship. Department of Statistics, UW–Madison, 2025.<br><br>Co-Winner, Best Poster Award. Student Poster Competition, Wisconsin Chapter of the American Statistical Association, 2024.<br><br>Honorable Mention, Outstanding Performance as a TA for Gateway Courses. Department of Statistics, UW–Madison, 2022–’23 academic year                                                                                                                          |
| TEACHING<br>EXPERIENCE      | Teaching Assistant: <ul style="list-style-type: none"><li>◦ UW–Madison (2022–2025): Data Science Modeling I &amp; II, Introduction to Time Series, Introductory Applied Statistics for Engineers.</li><li>◦ NYU Courant (2020–2022): Math for Economics I &amp; II, Linear Algebra.</li></ul>                                                                                                                                                                                  |