

Chanwoo Lee

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Research Fields

Matrix/ Tensor Data Analysis, Statistical Machine Learning, Optimization, High-Dimensional Statistics

Employment

Quantitative Researcher, Citadel	2023 - Present
Quantitative Research Summer Intern, Citadel	2022
Republic of Korea Air Force	2013 - 2015

Education

PhD, Statistics, University of Wisconsin-Madison, <i>Minor in Computer Science</i> <i>Advisor: Miaoyan Wang</i>	2023
BS, Mathematical Science and Statistics, Seoul National University, <i>Summa Cum Laude</i>	2018

Honors and Awards

IMS Lawrence D. Brown Ph.D. Student Award <i>Awarded by the Institute of Mathematical Statistics for excellence in research</i>	2024
ASA Statistical Learning and Data Science Section Student Paper Competition Winner <i>Awarded by the ASA Statistical Learning and Data Science Section for the top paper</i>	2023
Honorable Mention Graduate Course TA Award <i>Awarded by the Statistics Department at the University of Wisconsin-Madison for excellence in TA</i>	2022
NESS Student Research Awards <i>Awarded by the New England Statistical Society for excellence in research</i>	2022
IMS Hannan Graduate Student Travel Award <i>Awarded by the Institute of Mathematical Statistics for excellence in research</i>	2022
1st prize, NIMS-SKKU Big Data Summer School Project <i>Awarded by National Institute for Mathematical Sciences - Sungkyunkwan University</i>	2016
Seoul National University Alumni Scholarship <i>Awarded by Seoul National University Alumni Association</i>	2016 - 2017
National Scholarship For Science & Engineering <i>Awarded by the Korea Student Aid Foundation</i>	2012 - 2017

Publications

C. Lee. Sufficient dimension reduction for feature matrices. Under review. ([link](#))

C. Lee and M. Wang. Statistical and computational rates in high rank tensor estimation. Under review. ([link](#))

- *IMS Lawrence D. Brown Ph.D. Student Award*
- *ASA the Statistical Learning and Data Science Section Student Paper Competition Winner*

C. Lee, L. Li, H. Zhang, and M. Wang. Nonparametric trace regression in high dimensions via sign series representation. Under review. ([link](#))

C. Lee and M. Wang. Smooth tensor estimation with unknown permutations. *Journal of the American Statistical Association - Theory and Methods*, accepted, 2024. ([link](#))

- Winner of NESS Student Research Awards
- IMS Hannan Graduate Student Travel Award
- Part of the work is selected as Oral Presentation into NeurIPS 2021 Workshop on Quantum Tensor Networks in Machine Learning.

C. Lee and M. Wang. Beyond the Signs: Nonparametric tensor completion via sign series. *Advances in Neural Information Processing Systems 34 (NeurIPS)*, 2021. ([link](#))

J. Hu, C. Lee and M. Wang. Generalized Tensor Decomposition with Features on Multiple Modes. *Journal of Computational and Graphical Statistics* :1-15, 2021. ([link](#))

- ASA Statistical Computing and Graphics Section Student Paper Competition Winner
- Part of the work is accepted into NeurIPS 2020 Second Workshop on Machine Learning and the Physical Sciences.

C. Lee and M. Wang. Tensor denoising and completion based on ordinal observation. *Proceedings of International Conference on Machine Learning (ICML)*, PMLR 119:5778-5788, 2020. ([link](#))

Teaching Experience

Teaching Assistant, Department of Statistics, University of Wisconsin–Madison

- Stat 322 (Undergraduate): Applied Regression Analysis, TA Evaluation Rating: 4.71/5 2023 Spring
- Stat 610 (Graduate): Statistical Methods I, TA Evaluation Rating: 4.7/5; *TA Award* 2022 Spring

Grader, Department of Statistics, University of Wisconsin–Madison 2018 - 2019

- Stat 301: Introduction to Statistical Methods
- Stat 371: Introductory Applied Statistics for the Life Sciences

Presentations

- 2024 Bernoulli-IMS Worldcongress
- 2022 Joint Statistical Meetings, International Conference on Econometrics and Statistics,
New England Statistical Society Symposium
- 2021 Neural Information Processing Systems 34, Institute for Foundation of Data Science
- 2020 Neural Information Processing Systems 33, Institute for Foundation of Data Science,
International Conference on Machine Learning, Bernoulli-IMS One World Symposium

Professional Services

Reviewer for IEEE Transactions on Information Theory (1), International Conference of Machine Learning (5), Neural Information Processing Systems (1), Electronic Journal of Statistics (1), Journal of Machine Learning Research (1), Journal of the American Statistical Association (2), Biometrics (1), Journal of the Royal Statistical Society: Series B (1), Annals of Statistics (1).