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Chungpa Lee

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EDUCATION

Mar 2021 – Present **Yonsei University**, Seoul, Republic of Korea
Ph.D. Candidate in Statistics and Data Science
Expected to graduate in Aug 2027

Mar 2015 – Feb 2021 **Yonsei University**, Seoul, Republic of Korea
Bachelor of Arts in Applied Statistics, Minor in Economics
Leave of Absence for Military Service (Feb 2017 – Nov 2018)

WORK EXPERIENCE

Aug 2026 – Present **VISIT Intern** *(visiting student)*, Paul G. Allen School of Computer Science and Engineering, **University of Washington**
Host: Prof. Sewoong Oh
– Conduct research on language models

May 2025 – Apr 2026 **Honorary Associate** *(visiting researcher)*, Department of Electrical and Computer Engineering, **University of Wisconsin–Madison**
Host: Prof. Kangwook Lee
– Conducted research on language models

May 2022 – Sep 2024 **Manager**, Data Science Team, **GRETA Inc.**
Directors: Prof. Joseph H.T. Kim and Prof. Jongho Im
– Led the development of a synthetic data generation solution (Mar 2023 – Sep 2024)
– Developed a forecasting model for auto parts at Hyundai Mobis (Sep 2022 – Feb 2023)
– Developed a synthetic data generation solution for CRO companies (Jun 2022 – Feb 2023)
– Developed a statistical analysis solution (part-time; Jul 2021 – Dec 2021)

Mar 2023 – Aug 2024 **Statistical Consulting Assistant**, **Yonsei Institute of Data Science**
Director: Prof. Seungho Kang
– Provided statistical consulting for academic research and completed over 20 projects

PUBLICATIONS

[1] *Same Concept, Different Directions: Cross-Modal Feature Heterogeneity in Sparse Autoencoders*
Chungpa Lee[*], Jihoon Kwon[*], Kyle Min, Jy-yong Sohn *(*equal contribution)*
The Fortieth Annual Conference on Neural Information Processing Systems (NeurIPS), 2026

[2] *How to Correctly Report LLM-as-a-Judge Evaluations*
Chungpa Lee, Thomas Zeng, Jongwon Jeong, Jy-yong Sohn, Kangwook Lee
Proceedings of the 43rd International Conference on Machine Learning (ICML), 2026

[3] *Fine-Tuning Without Forgetting In-Context Learning: A Theoretical Analysis of Linear Attention Models*
Chungpa Lee, Jy-yong Sohn, Kangwook Lee
Proceedings of the 43rd International Conference on Machine Learning (ICML), 2026

[4] *Transformers in the Dark: Navigating Unknown Search Spaces via Bandit Feedback*
Jungtaek Kim, Thomas Zeng, Ziqian Lin, Minjae Lee, **Chungpa Lee**, Jy-yong Sohn, Hyung Il Koo, Kangwook Lee
Transactions on Machine Learning Research (TMLR), 2026

[5] *On the Similarities of Embeddings in Contrastive Learning*
Chungpa Lee, Sehee Lim, Kibok Lee, Jy-yong Sohn
Proceedings of the 42nd International Conference on Machine Learning (ICML), 2025

[6] *A Generalized Theory of Mixup for Structure-Preserving Synthetic Data*
Chungpa Lee, Jongho Im, Joseph H.T. Kim
Proceedings of The 28th International Conference on Artificial Intelligence and Statistics (AISTATS), 2025

[7] *A Theoretical Framework for Preventing Class Collapse in Supervised Contrastive Learning*
Chungpa Lee, Jeongheon Oh, Kibok Lee, Jy-yong Sohn
Proceedings of The 28th International Conference on Artificial Intelligence and Statistics (AISTATS), 2025

[8] *Analysis of Using Sigmoid Loss for Contrastive Learning*
Chungpa Lee, Joonhwan Chang, Jy-yong Sohn
Proceedings of The 27th International Conference on Artificial Intelligence and Statistics (AISTATS), 2024

HONORS AND AWARDS

Aug 2026 – Aug 2027	Shin Dongwook Study Abroad *(scholarship)*, Yonsei University
May 2025 – Apr 2026	BK21 FOUR International Joint Training Support for Outstanding Graduate Students, National Research Foundation of Korea
Spring 2025, Fall 2021	Academy Research Fellowship, Yonsei University
Mar 2021 – Feb 2023	Yongwoon Scholarship, Yongwoon Scholarship Foundation
Fall 2020, Spring 2015	Semester Honors *(undergraduate)*, Yonsei University
Spring 2020	Semester Highest Honors *(undergraduate)*, Yonsei University

ACADEMIC SERVICE

Reviewer:

- **Conferences:** ICML 2026 *(Silver Reviewer)*, NeurIPS 2026 *(Top Reviewer)*, AAAI 2027, ICLR 2027
- **Journals:** IEEE Transactions on Neural Networks and Learning Systems, IEEE Transactions on Circuits and Systems for Video Technology

REFERENCES

1. **Joseph H.T. Kim**
   Professor, Department of Statistics and Data Science, Yonsei University
   jhtkim@yonsei.ac.kr
2. **Jy-yong Sohn**
   Associate Professor, Department of Statistics and Data Science, Yonsei University
   jysohn1108@yonsei.ac.kr `https://itml.yonsei.ac.kr/`
3. **Kangwook Lee**
   Chief AI Officer, KRAFTON
   Chief Technology Officer, Ludo Robotics
   Former Associate Professor, Department of Electrical and Computer Engineering, University of Wisconsin–Madison
   kangwook.lee@krafton.com `https://kangwooklee.com/`
4. **Sewoong Oh**
   Professor, Allen School of Computer Science & Engineering, University of Washington
   sewoong@cs.washington.edu `https://homes.cs.washington.edu/~sewoong/`