

Jeonghwan Lee

Updated October 2, 2023

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Citizenship: Republic of Korea

Research interests

- ◇ Various topics lying at the span of probability, high-dimensional statistics, and machine learning.
- ◇ Statistical learning under distributional shifts: offline reinforcement learning, off-policy evaluation, and distributionally robust optimization.

Education

The University of Chicago. Chicago, IL, United States

- ◇ Ph.D. candidate in [Statistics](#): Sep. 2022 –.

Korea Advanced Institute of Science and Technology. Daejeon, Republic of Korea

- ◇ Bachelor of Science in [Mathematical Sciences](#): Mar. 2015 – Feb. 2022.
- ◇ Graduated with Summa Cum Laude (**GPA:** 4.10/4.30 (Overall), 4.21/4.30 (Major)).
- ◇ Left for mandatory military service: Oct. 2018 – Aug. 2020.

Publications Here, * denotes equal contribution.

Peer-reviewed conference papers

- C1. **A Generalized Worker-Task Specialization Model for Crowdsourcing: Optimal Limits and Algorithm.**
- ◇ Doyeon Kim*, **Jeonghwan Lee***, and Hye Won Chung.
 - ◇ *The proceedings of IEEE International Symposium on Information Theory (ISIT)*, Jul. 2022.

Journal articles

- J1. **A Worker-Task Specialization Model for Crowdsourcing: Efficient Inference and Fundamental Limits.**
- ◇ Doyeon Kim*, **Jeonghwan Lee***, and Hye Won Chung.
 - ◇ To appear at the *IEEE Transactions on Information Theory*, 2023. (Link: [arXiv:2111.12550](https://arxiv.org/abs/2111.12550)).
- J2. **Robust Hypergraph Clustering via Convex Relaxation of Truncated MLE.**
- ◇ **Jeonghwan Lee**, Daesung Kim, and Hye Won Chung.
 - ◇ *IEEE Journal on Selected Areas in Information Theory (JSAIT)*, Vol. 1, Iss. 3, pp. 613–631, Nov. 2020. (Link: [arXiv:2003.10038](https://arxiv.org/abs/2003.10038)).

Honors and scholarships

Doctoral Overseas Scholarship. Sep. 2022 –

- ◇ [Kwanjeong Educational Foundation](#).

The KAIST Presidential Award. Feb. 2022

- ◇ The 2022 Commencement Ceremony of [KAIST](#).

KAIST Math Problem Of the Week (POW). Jun. 2019

- ◇ [Department of Mathematical Sciences at KAIST.](#)
- ◇ Excellence award.

University Students Contest of Mathematics. Dec. 2017

- ◇ [Korean Mathematical Society.](#)
- ◇ Silver prize (for majors).

Dean's List. Sep. 2017

- ◇ [College of Natural Sciences at KAIST.](#)

Honor Student at KAIST. Aug. 2017 – Present

National Excellence Scholarship for Science & Engineering. Mar. 2017 – Jun. 2021

- ◇ Korea Student Aid Foundation.

Department Honorary Scholarship. Mar. 2017 – Jun. 2017

- ◇ [Department of Mathematical Sciences at KAIST.](#)
- ◇ Awarded to the top student in the previous semester.

Teaching
experience

Teaching assistants at the University of Chicago.

- ◇ STAT 22000: Statistical methods and applications. Autumn 2023
- ◇ STAT 22000: Statistical methods and applications. Winter 2023

Work
experience

Learning support volunteer activity. Mar. 2019 – Dec. 2019

- ◇ The place of work: Jinju Dong Middle School.
- ◇ Worked as a mathematics learning support assistant for two semesters.

Republic of Korea Air Force. Oct. 2018 – Aug. 2020

- ◇ The place of work: Education and Training Command of the Republic of Korea Air Force.
- ◇ Worked as an aerographer (Mandatory military service).
- ◇ Starting position: Airman Basic / Ending position: Staff Sergeant.

KAIST Undergraduate Math Colloquium (KUMC). Sep. 2016 – Jun. 2018

- ◇ [Department of Mathematical Sciences at KAIST.](#)
- ◇ Worked as a colloquium organizer.

Attended
schools
& programs

Big Data and Machine Learning in Econometrics, Finance, and Statistics. Oct. 2022

- ◇ The [Stevanovich Center for Financial Mathematics](#) at the University of Chicago.

The 2nd Workshop on Seeking Low-dimensionality in Deep Neural Networks. Nov. 2021

- ◇ [IEEE Information Theory Society.](#)

Summer School on Random Structures in Optimizations & Related Applications. Jun. 2021

- ◇ [The School of Mathematics](#) at the University of Minnesota, Twin Cities.

The 17th KIAS Combinatorics Workshop.

Aug. 2017

- ◇ Korea Institute for Advanced Study.
- ◇ A special event as *Summer School for Combinatorics*.

Skills

Computer skills

- ◇ Programming experiences: Python, C++, Java, MATLAB, R.
- ◇ Softwares & Tools: \LaTeX , Excel.

Languages

- ◇ Korean: Native.
- ◇ English: Fluent.
- ◇ Japanese: Moderate.

References

Professor [Cong Ma](#).

- ◇ *Assistant Professor* in the [Department of Statistics](#) at the [University of Chicago](#).
- ◇ E-mail: congma@uchicago.edu.

Professor [Hye Won Chung](#).

- ◇ *Associate Professor* in the [School of Electrical Engineering](#) at [KAIST](#).
- ◇ E-mail: hwchung@kaist.ac.kr.