

Jeonghwan Lee

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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

	<ul style="list-style-type: none"> ◇ Department of Mathematical Sciences at KAIST. ◇ Excellence award. 	
	University Students Contest of Mathematics. <ul style="list-style-type: none"> ◇ Korean Mathematical Society. ◇ Silver prize (for majors). 	Dec. 2017
	Dean's List. <ul style="list-style-type: none"> ◇ College of Natural Sciences at KAIST. 	Sep. 2017
	Honor Student at KAIST.	Aug. 2017 – Present
	National Excellence Scholarship for Science & Engineering. <ul style="list-style-type: none"> ◇ Korea Student Aid Foundation. 	Mar. 2017 – Jun. 2021
	Department Honorary Scholarship. <ul style="list-style-type: none"> ◇ Department of Mathematical Sciences at KAIST. ◇ Awarded to the top student in the previous semester. 	Mar. 2017 – Jun. 2017
Teaching experience	Teaching assistants at the University of Chicago. <ul style="list-style-type: none"> ◇ STAT 22000: Statistical methods and applications. ◇ STAT 22000: Statistical methods and applications. 	Autumn 2023 Winter 2023
Work experience	Learning support volunteer activity. <ul style="list-style-type: none"> ◇ The place of work: Jinju Dong Middle School. ◇ Worked as a mathematics learning support assistant for two semesters. 	Mar. 2019 – Dec. 2019
	Republic of Korea Air Force. <ul style="list-style-type: none"> ◇ 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. 	Oct. 2018 – Aug. 2020
	KAIST Undergraduate Math Colloquium (KUMC). <ul style="list-style-type: none"> ◇ Department of Mathematical Sciences at KAIST. ◇ Worked as a colloquium organizer. 	Sep. 2016 – Jun. 2018
Attended schools & programs	Big Data and Machine Learning in Econometrics, Finance, and Statistics. <ul style="list-style-type: none"> ◇ The Stevanovich Center for Financial Mathematics at the University of Chicago. 	Oct. 2022
	The 2nd Workshop on Seeking Low-dimensionality in Deep Neural Networks. <ul style="list-style-type: none"> ◇ IEEE Information Theory Society. 	Nov. 2021
	Summer School on Random Structures in Optimizations & Related Applications. <ul style="list-style-type: none"> ◇ The School of Mathematics at the University of Minnesota, Twin Cities. 	Jun. 2021

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: congm@uchicago.edu.

Professor [Hye Won Chung](#).

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