

Jeonghwan Lee

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Citizenship: Republic of Korea

Research interests

- ◇ Statistical machine learning: network data analysis, ranking problems, synchronization, and analysis of iterative algorithms.
- ◇ Theory of statistics: high-dimensional statistics, non-parametric statistics.
- ◇ Optimization for machine learning: minimax optimization and learning in games, Riemannian optimization.
- ◇ Reinforcement learning theory.

Education

The University of Chicago

Chicago, IL, USA

- ◇ Ph.D. 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.

Gyeongnam Science High School

Jinju, Republic of Korea

- ◇ One year early graduation with honor: Mar. 2013 – Feb. 2015.

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.
- ◇ *Proceedings of IEEE International Symposium on Information Theory (ISIT)*, Jul. 2022.
- ◇ In preparation for submission to a journal. (Link: [arXiv:2111.12550](https://arxiv.org/abs/2111.12550)).

Journal articles

J1. 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) ◇ Department of Mathematical Sciences at KAIST. ◇ Excellence award.	Jun. 2019
	University Students Contest of Mathematics ◇ Korean Mathematical Society. ◇ Silver prize (for majors).	Dec. 2017
	Dean's List ◇ College of Natural Sciences at KAIST.	Sep. 2017
	Honor Student at KAIST	Aug. 2017 – Present
	National Excellence Scholarship for Science & Engineering ◇ Korea Student Aid Foundation.	Mar. 2017 – Jun. 2021
	Department Honorary Scholarship ◇ Department of Mathematical Sciences at KAIST. ◇ Awarded to the top student in the previous semester.	Mar. 2017 – Jun. 2017
Attended schools & programs	The 2nd Workshop on Seeking Low-dimensionality in Deep NNs ◇ IEEE Information Theory Society.	Nov. 2021
	Summer School on Random Structures in Optimizations & Related Applications ◇ The School of Mathematics at the University of Minnesota, Twin Cities.	Jun. 2021
	The 17th KIAS Combinatorics Workshop ◇ Korea Institute for Advanced Study. ◇ A special event as <i>Summer School for Combinatorics</i> .	Aug. 2017
Work experience	Learning support volunteer activity. ◇ 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 ◇ 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) ◇ Department of Mathematical Sciences at KAIST. ◇ Worked as a colloquium organizer.	Sep. 2016 – Jun. 2018
Skills	Computer skills ◇ Programming experiences: Python, C++, Java, MATLAB, R. ◇ Softwares & Tools: \LaTeX , Excel.	

Languages

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

References

Prof. [Hye Won Chung](#).

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

Prof. [Ji Oon Lee](#).

- ◇ *Professor* at [Department of Mathematical Sciences, KAIST](#).
- ◇ *Director* at [Stochastic Analysis and Application Research Center, KAIST](#).
- ◇ E-mail: jioon.lee@kaist.edu.

Prof. [Mikyoungh Lim](#).

- ◇ *Professor* at [Department of Mathematical Sciences, KAIST](#).
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