Jeonghwan Lee

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LinkedIn: https://www.linkedin.com/in/jeonghwan-lee-5bb7491b1/   **Citizenship**: Republic of Korea

Research interests	◇ Statistical machine learning: network data analysis, ranking problems, analysis of iterative algorithms.
	◇ Theory of statistics: high-dimensional statistics, non-parametric statistics.
	◇ Non-convex optimization in statistical estimation and learning tasks.
	◇ Theoretical foundations of reinforcement learning.

Education

The University of Chicago   Chicago, IL, United States

◇ Incoming first-year Ph.D. student 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

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)*, Volume 1, Issue 3, pp. 613–631, Nov. 2020. (Link: arXiv:2003.10038).

Preprints

P1. **A Worker-Task Specialization Model for Crowdsourcing: Efficient Inference and Fundamental Limits**

◇ Doyeon Kim[1], **Jeonghwan Lee**[1], and Hye Won Chung.

◇ arXiv preprint, submitted. (Link: arXiv:2111.12550).

Honors and scholarships

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 (The 2nd prize).

University Students Contest of Mathematics   Dec. 2017

◇ Korean Mathematical Society.

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[1]Equal contribution

◇ 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 Schloarship Mar. 2017 – Jun. 2017

◇ Department of Mathematical Sciences at KAIST.
◇ Awarded to the top student in the previous semester.

Financial Aid Scholarship at KAIST Mar. 2015 – Jun. 2021

◇ Full amount of school support fees.

The 2nd Workshop on Seeking Low-dimensionality in Deep NNs 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*.

Learning support volunteer activitiy. 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.

Computer skills

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

Languages

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

Miscellanea	**Weekly study group in special topics**	Jul. 2018 – Sep. 2018

◇ Inference & Information for Data Science Lab, School of Electrical Engineering, KAIST.
◇ Topics: Probabilistic graphical models.

Weekly mathematics reading seminar   Sep. 2017 – Jun. 2018
◇ Topics: Information theory, Theory of Riemann surfaces.

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. Mikyoung Lim.
◇ *Professor* at Department of Mathematical Sciences, KAIST.
◇ E-mail: mklim@kaist.ac.kr.