

Curriculum Vitae

Personal Information

Name Jeonghwan (Brian) Lee
Date of Birth Mar 23rd, 1997
Address KAIST, 291 Daehak-ro, Yuseong-gu, Daejeon, Republic of Korea
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Research Interest

- Information-theoretic Methods in High-dimensional Statistics.
- Statistical Inference in Networks.
- The Effect of Side Information in Statistical Estimation and Learning Problems.

Education

2015–Present **Bachelor of Sciences**, *Korea Advanced Institute of Science and Technology*.

- Department of Mathematical Sciences, Enrolled in Honor Program.
- Cumulative GPA: Overall 4.08/4.30 (3.92/4.00), Major 4.20/4.30 (4.00/4.00).
- Temporarily left school due to mandatory military service (Oct, 2018–Aug, 2020).

2013–2015 **High School Education**, *Gyeongnam Science High School*.

- Early Graduation with honor.

Publications

- 1 **Jeonghwan Lee**, Daesung Kim and Hye Won Chung, *Robust Hypergraph Clustering via Convex Relaxation of Truncated MLE*, arXiv:2003.10038.
 - Submitted to IEEE Journal on Selected Areas in Information Theory (JSAIT).

Awards & Honors

Jun, 2019 **KAIST Math Problem of the Week (POW)**, *Excellence Prize*.

- Department of Mathematical Sciences at KAIST.

Dec, 2017 **36th National Undergraduate Mathematics Competition**, for Majors, *Silver Prize*.

- Korean Mathematical Society.

Sep, 2017 **Dean's List**.

- College of Natural Sciences at KAIST.

Jun, 2017 **National Excellence Scholarship (Natural Sciences and Engineering)**.

- Korea Student Aid Foundation.

Mar, 2017 **Department Honors Scholarship**.

- Department of Mathematical Sciences at KAIST.
- Awarded to the top undergraduate student in the previous semester (\$1,000).

Dec, 2016 **35th National Undergraduate Mathematics Competition**, for Majors, *Bronze Prize*.

- Dec, 2015 **34th National Undergraduate Mathematics Competition**, for Majors, *Bronze Prize*.
 - Korean Mathematical Society.
- Jul, 2014 **29th Korean Mathematics Competition**, *Gold Prize*.
 - The Korean Society of Mathematical Education.

Research Experiences

- Jun, 2018 **Undergraduate Researcher**, School of Electrical Engineering at KAIST.
–Present
 - Institute: Inference and Information for Data Science Lab, School of Electrical Engineering at KAIST.
 - Advisor: Hye Won Chung.
 - Jul, 2020 – Present: The Effect of Side Information in Learning Problems on Social Recommendation Systems.
 - Apr, 2019 – May, 2020: Robust and Efficient Clustering Method in Hypergraphs.
 - Jun, 2018 – Sep, 2018: Information Limits for Recovering a Single Hidden Community.
- Dec, 2017 **Individual Study**, Department of Mathematical Sciences at KAIST.
–Feb, 2018
 - Advisor: Ji Oon Lee.
 - Topics: How do Random Matrix Theory and Wireless Communications collaborate well?

Skills

Programming Languages

C/C++, Java, Python.

Software & Tools

MATLAB, R, Excel, \LaTeX .

Languages

Korean **Mothertongue**
 English **Fluent**
 Japanese **Moderate**

Miscellanea

- Oct, 2018 **Republic of Korea Air Force**.
–Aug, 2020
 - Worked as a charge of quarters.
- 2018 Spring **Student Seminar**.
 - Topic: Information Theory and Its Applications to Statistics.
- 2017 Fall **Student Seminar**.
 - Topic: Theory of Riemann Surfaces.
- 2016 Fall **Undergraduate Math Colloquium**, *Department of Mathematical Sciences, KAIST*.
–2018 Spring

- Worked as a seminar organizer.