

# Curriculum Vitae

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## 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.
- Harnessing 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, Major 4.20/4.30.
- 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*, submitted to the IEEE Journal on Selected Areas in Information Theory, 2020.

## 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*.
  - Korean Mathematical Society.
- Dec, 2015 **34th National Undergraduate Mathematics Competition**, for Majors, *Bronze Prize*.
  - Korean Mathematical Society.

## 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: Harnessing Side Information in Estimation Problems under Statistical Rating Models.
- 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,  $\text{\LaTeX}$ .

## 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.