

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 theory and statistical inference in networks.
- Theoretical and algorithmic aspects of high-dimensional statistics.
- Optimization.
- Probability theory and stochastic processes.

Education

- 2015 – **Bachelor of Sciences**, *Korea Advanced Institute of Science and Technology*.
- Department of Mathematical Sciences (Overall GPA: 4.08/4.3, Major GPA: 4.2/4.3).
 - Enrolled in Honor Program.
 - Temporarily left school due to mandatory military service (Oct, 2018 – Aug, 2020).
- 2013 – 2015 **High School Education**, *Gyeongnam Science High School*.
- One year early graduation with honor.

Publications

- 1 **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*, Volume 1, Issue 3, pp. 613-631, Nov. 2020.

Scholarships & Honors

- Aug, 2017 – **Honor Student**, *KAIST*.
- A program that permits outstanding undergraduate students to attend advanced graduate courses.
- Mar, 2017 – **National Excellence Scholarship for Natural Science and Engineering**, *Korea Student Aid Foundation*.

Mar, 2017 – **Department Honors Scholarship**, *Department of Mathematical Sciences at KAIST.*
Jun, 2017

- Awarded to the top undergraduate student in the previous semester (\$1,000).

Selected Awards

Jun, 2019 **KAIST Math Problem of the Week (POW)**, *Department of Mathematical Sciences at KAIST.*

- Excellence award.

Dec, 2017 **36th National Undergraduate Mathematics Competition**, *Korean Mathematical Society.*

- Silver prize (for majors).

Sep, 2017 **Dean's List**, *College of Natural Sciences at KAIST.*

Research Experiences

Jun, 2018 – **Undergraduate Researcher**, *School of Electrical Engineering at KAIST.*

- Advisor: Hye Won Chung.
- Aug, 2020 – : Role of social graph side information in multi-valued matrix completion problem.
- Apr, 2019 – May, 2020: Robust and efficient clustering methods in hypergraphs.
- Jun, 2018 – Sep, 2018: Statistical limits for recovering a single hidden community.

Dec, 2017 – **Undergraduate Research Internship**, *Department of Mathematical Sciences at KAIST.*
Feb, 2018

- Advisor: Ji Oon Lee.
- Topic: The application of random matrix theory in the study of MIMO scheme.

Skills

Programming Languages

C/C++, Java, Python.

Software & Tools

MATLAB, R, Excel, \LaTeX .

Languages

Korean **Mother tongue**

English **Fluent**

Japanese **Moderate**

Miscellanea

Oct, 2018 – **Republic of Korea Air Force.**

Aug, 2020

- Worked as a charge of quarters.

Sep, 2017 – **Weakly Mathematics Reading Seminar.**

Jun, 2018

- Mar, 2018 – Jun, 2018: Information Theory and Its Applications to Statistics.
- Sep, 2017 – Dec, 2017: Theory of Riemann Surfaces.

2016 Fall – **Undergraduate Math Colloquium**, *Department of Mathematical Sciences, KAIST.*

2018 Spring

- Worked as a seminar organizer.