

Current Position

- **KAIST** Daejeon, South Korea
Integrated master's/doctoral program 2021-Current
– Advised by Jaehoon Kim and Hong Liu.

Education

- **KAIST** Daejeon, South Korea
B.S., Mathematics 2016-2020
– Advised by Yong Jung Kim.

Publications

- A proof of the Elliott-Rödl conjecture on hypertrees in Steiner triple systems (with Jaehoon Kim, Joonkyong Lee, and Abhishek Methuku), *arXiv:2208.10370*
- The proper conflict-free k -coloring problem and the odd k -coloring problem are NP-complete on bipartite graphs (with Jungho Ahn and Sang-il Oum), *arXiv:2208.08330*
- Crux, space constraints and subdivisions (with Jaehoon Kim, Younjin Kim, and Hong Liu), *arXiv:2207.06653*
- Complexity of Partitioning Hypergraphs, *arXiv:1812.09206* (decided not to publish)
- On the mean square displacement of a random walk on a graph (with Hwidong Kim, Jiho Maeng, Jihwan Yu, Yongwook Cha, and Seong-Hun Paeng) *European Journal of Combinatorics* 51 (2016): 227-235

Talks

- IBS Discrete Math Seminar
November 29, 2022
A proof of the Elliott-Rödl conjecture on hypertrees in Steiner triple systems (Youtube)
- KAIST Math Graduate student Seminar (KMGS)
November 3, 2022
Large clique subdivisions in graphs without small dense subgraphs
- 2021 Combinatorics Workshop
December 21, 2021
Large clique subdivisions in graphs without small dense subgraphs (Youtube)

- IBS DIMAG Seminar
November 30, 2021
Large clique subdivisions in graphs without small dense subgraphs (Youtube)

Competitive Programming

2018 Kakao Code Festival 5th prize(30th place) 2018
2017 ACM-ICPC Daejeon Regional 17th place 2017

TA works

2022

- (fall) MAS 102 Calculus 2 and MAS 477 Introduction to Graph Theory at KAIST
- (spring) MAS 102 Calculus 2 and MAS 275 Discrete mathematics at KAIST

2021

- (fall) MAS 102 Calculus 2 and CC511 Probability and Statistics at KAIST
- (spring) MAS 101 Calculus 1 at KAIST (Won the Outstanding Teaching Assistant Award).