

### Personal Information

Birth date 2000.03.08  
National 12979644  
Researcher  
Number

### Education

2023.8– **Ph.D in Mathematical Sciences (Combined program)**, KAIST, Korea  
Present Advisor : Pf. Yong-Jung Kim  
2022.8– **M.S in Mathematical Sciences (Combined program)**, KAIST, Korea  
2023.8 Advisor : Pf. Yong-Jung Kim  
2019.2– **B.S in Mathematical Sciences**, KAIST, Korea  
2022.8  
2016.3– Gyeonggi Science High School, Korea  
2019.2

### Research

2023- with S-M.Kang, Y-J.Kim, Diffusion with heterogeneous permeable barriers, in preparation.  
2023- with Y-J.Kim, Diffusion with single permeable barrier, in research.  
2024- with Y-J.Kim, Modeling for permeability of polyacrylamide gel, in research.  
2024- with K-M.Lee, S-H.Kim, M-C.Choi, Y-J.Kim, Soret effect by heterogeneous diffusion, in research.  
2024- with H.Hilhorst, Y-J.Kim, Ladder lattice with rotating cells, in research  
2024- Spatially heterogeneous random walk with run-and-tumble like motion, in research

### Awards

2021.12 Bronze Prize, Korean Undergraduate Mathematics Competition, Korean Mathematical Society, Korea  
2023.3 Best TA Award (Calculus 2), KAIST, Korea  
2023.9 Best TA Award (Calculus I), KAIST, Korea  
2024.3 Best TA Award (Calculus 2), KAIST, Korea  
2024.9 Best TA Award (Calculus I), KAIST, Korea

## Contributed/Invited Talks

1. 19 Jul, 2024 ReaDiNet Seminar, Paris-Saclay Univ., France.  
Title: Mathematical modeling for heterogeneous permeable barriers and its application

## Teaching

2022.8- Present Teaching Assistant in KAIST

Teaching List

- Calculus 2 (2022, Fall)
- Calculus I, Analysis 1 (2023, Spring)
- Calculus 2 (Vice-head TA, 2023, Fall)
- Calculus I (Vice-head TA, 2024, Spring)
- Calculus 2 (Head TA, 2024, Fall)

2022.8- Present Tutoring in KAIST

Teaching List

- Calculus 2 (2022, Fall)
- Calculus I (2023, Spring)
- Calculus I (2024, Spring)