



# HUIZE HONG

Add.: 2066, Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do

Tel: +82-10-8438-9435 E-mail: [heatherhong@g.skku.edu](mailto:heatherhong@g.skku.edu)



## Education

- 2022.6- present**      Sungkyunkwan University      Electrical and Computer Engineering
- 2018.9-2022.6**      Engineering at North China University of Technology      Majored in Electrical Control(Automatization)
- 2015.09-2018.06**      Beijing NO.13 High school



## Work Experience

- 2022.09- present**  
**INTELLIGENT DATA-CENTRIC EMERGING ARCHITECTURE LAB(Sungkyunkwan University)**  
Website: <https://idealab.skku.edu/>  
Responsibilities:
- Masters and PhD combine researcher
  - Accelerated LLM(large language model) training
- 2021.08-2021.09**  
**Big Data Intern at People's Technology (Beijing) Co., Ltd**  
Website: <https://www.linkedin.com/company/peoplecn/>  
Responsibilities:
- Responsible for the statistics of big data looking board update data
  - Write the corresponding Python and SQL statement fact query to calculate the current data amount
  - Follow the department leaders to understand and plan the construction and migration of the company's data warehouse



## Awards and Honors

- BK214 2025-1학기 펠로우십(특성화) 장학금(BK214[Brain Korea 21century 4stage] 2025-1st Semester Fellowship (Specialization) Scholarship)
- BK214 참여대학원생(BK214[Brain Korea 21century 4stage] participating graduate students) in 2022, 2023, 2024, 2025
- SKKU STEM Scholarship in 2022, 2023, 2024, 2025
- Won the Third of North China University of Technology Mathematical Modeling Competition in 2020
- American College Students Mathematical Modeling Competition successfully participated in 2020
- Be the group leader in University Research and Entrepreneurship Action Plan in 2021
- Won the first prize in the speech contest of the School of Electrical and Control Engineering of North China University of Technology in 2019
- Silver Award for Instrumental Music at the Beijing University Student Music Festival in 2018 (as a saxophone player)
- Good command of listening, written and oral English(CET 514;IETS 6)



## Interests

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- Saxophone
- Table tennis
- K-pop (e.g.: seventeen, monsta x)



## Projects experience

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**2024/02-2025/07**

### **ScaleMoE: A Fast and Scalable Distributed Training Framework for Large-Scale Mixture-of-Experts Models**

● The current distributed training frameworks cannot achieve callable performance for the se large-scale MoE models due to huge communication overhead. We propose ScaleMoE, a fast and scalable distributed training framework for large-scale MoE models.

- We propose three novel optimizations.
  - All-to-all communication optimization. We propose an adaptive all-to-all communication to minimize communication volumes by removing unnecessary zero padding.
  - Balanced experts election. We propose dynamic expert clustering, facilitating a more balanced expert selection.
  - Heterogeneous network-aware data placement. We propose topology-aware expert remapping to fully leverage any type of network configuration.

**2019/09-2020/01**

### **C code optimization technology based on Simulink**

● Use matlab's simulink toolbox to write simple programs and use matlab's own tools to output C programs