

# Izaaz Inhar

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🌐 [izaazm](https://github.com/izaazm)

## RESEARCH INTERESTS

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Multimodal Learning, Federated Learning, AI Safety, AI Systems

## EDUCATION

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**Korea Advanced Institute of Science and Technology (KAIST)**

M.S. in Electrical Engineering

Networking and Mobile System Lab [NMSL](#)

Advisor: Sung-Ju Lee

Mar. 2025 - Present

Daejeon, Korea

**Korea Advanced Institute of Science and Technology (KAIST)**

B.S. in Computer Science, W/ Double Major in Mathematics

Aug. 2020 - Feb. 2025

Daejeon, Korea

## PUBLICATIONS

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(P: Preprint, C: Conference, †: Equal senior role)

[C1] **QuRe: Query-Relevant Retrieval through Hard Negative Sampling in Composed Image Retrieval**

Jaehyun Kwak, **Izaaz Inhar**, Se-Young Yun, Sung-Ju Lee

International Conference of Machine Learning (ICML) 2025

## EXPERIENCE

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**KAIST Networking and Mobile Systems Lab**

Undergraduate Intern and Graduate Student, Advised by Dr. Sung-Ju Lee.

Research on Multimodal Image Retrieval Model. (Co-advised by Dr. Se-Young Yun)

Research on Multimodal Federated Learning

Jun. 2024 - Present

Daejeon, Korea

[C1]

**KAIST Transport and Urban Planning Arena Lab**

Undergraduate Researcher, Advised by Dr. Inhi Kim.

Research and data analysis on personal mobility and other transportation data

Jun. 2023 - Sep. 2023

Daejeon, Korea

**KAIST Interactive Computing Lab**

Undergraduate Researcher, Advised by Dr. Uichin Lee.

Research on Human Computer Interaction on causality of pull intervention in a designed fitness app.

Jul. 2022 - Sep. 2022

Daejeon, Korea

**AKA Intelligence**

AI Researcher and Developer Intern

Performed implementation and background research related to talking head generation for Musio Robot, and Musio Metaverse

Mar. 2022 - Sep. 2022

Seoul, Korea

## SELECTED PROJECTS

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**Diffusion GRPO**

CS507 Project - *Pytorch*

Research project on extending reasoning capabilities on Diffusion LLMs based on GRPO

Apr. 2025 - Jun. 2025

**Hyper-Relational Ingram**

CS471 Project - *Pytorch*

Proposed a new way of extending a SoTA inductive graph architecture on hyper-relational graphs

Apr. 2024 - Jun. 2024

**FPGA AI Accelerator**

CS411 Project - *Verilog, C, CUDA, FPGA*

Implemented and synthesized systolic array based AI accelerator using verilog on AMD's FPGA board to accelerate AI inference

Oct. 2023 - Des. 2023

## HONORS AND CERTIFICATION

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<b>Kaggle CAFA5</b> Kaggle research code competition, Bronze Medal	2023
<b>Global e-Competition on Astronomy and Astrophysics</b> (Online replacement of IOAA), Bronze Medal	2020
<b>Indonesia National Science Olympiad</b> Astronomy and Astrophysics, Gold Medal	2019
<b>Indonesia National Science Olympiad</b> Computing/Informatics, Bronze Medal	2018

## EXTRACURRICULAR ACTIVITIES & SERVICES

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### Academic Services

- **Reviewer:** MobiCom 2025 / ICML 2025

**KAIST International Student Association** *Aug. 2021 - Aug. 2022*  
Welfare Division, Advocating and planning events relating to student welfare

**Korea's Indonesian Student Association** *Aug. 2021 - Aug. 2014*  
Maintaining website and planning events for Indonesian students in Korea

**KAIST Literature Club** *Aug. 2023 - Mar. 2024*  
Editor for the student published literature magazine

## REFERENCES

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**Sung-Ju Lee**, Endowed Chair Professor at KAIST

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