

Younho Jeon

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Education

Korea Advanced Institute of Science and Technology (KAIST) <i>M.S. in Computer Science</i>	Mar. 2023 – Feb. 2025 <i>Daejeon, Korea</i>
Korea Advanced Institute of Science and Technology (KAIST) <i>B.S. in Computer Science</i> <i>Minor in Electrical Engineering</i>	Mar. 2018 – Feb. 2023 <i>Daejeon, Korea</i>

Publications

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- [1] **Probabilistic Inertial Poser (ProbIP): Uncertainty-aware Human Motion Modeling from Sparse Inertial Sensors**
Min Kim, *Younho Jeon*, Sungho Jo
Under review

Projects

Video Generation with Inference Image and Pose Guidance <ul style="list-style-type: none">◦ Led a research team on video generation using motion data◦ Developed a diffusion-based video generation model guided by inference image and pose sequences◦ Re-trained the model on open datasets and validated the inference using self-collected MoCap and IMU sensor data	Aug. 2024 - Jan. 2025 KAIST NMAIL
Human Motion to 3D Object Generation <ul style="list-style-type: none">◦ Proposed a framework for generating interacting objects from Human Motion sequences by predicting contact points and understanding sequential point clouds◦ Achieved state-of-the-art performance on PROX and HUMANISE datasets	Feb. 2024 - Dec. 2024 KAIST NMAIL
Wearable Fiber Sensor for Hand Gesture Recognition <ul style="list-style-type: none">◦ Collaborated with SNU Bio-Medical and Brain-Machine Interface Lab (B-MIL) on a fiber-sensor-based hand gesture recognition system◦ Proposed the core structural concept of the wearable fiber glove◦ Implement a live demo in a Unity scene by learning from real data	Mar. 2024 - Present KAIST NMAIL & SNU B-MIL
Sequential Sketch Stroke Generation <ul style="list-style-type: none">◦ Designed a sequence prediction model for generating handwritten stroke◦ Explored different perspectives on data representation, including image-based and sequential approaches	Sep. 2024 - Dec. 2024 CS492(D) at KAIST
SMART Yoga Mat <ul style="list-style-type: none">◦ Developed PYME, Pressure-based Yoga Motion Estimation, to predict yoga poses from pressure values of mat sensor readings◦ Built a custom yoga mat prototype using Velostat and Arduino for real-time pressure sensing	Oct. 2023 - Mar. 2024 KAIST NMAIL

Research Experiences

KAIST U&I Lab

Jun. 2022 – Aug. 2022

Undergraduate Research Intern

- Advisor: Prof. Alice Oh
- Studied fundamental concepts in Natural Language Processing (NLP)
- Reproduced the model from *A Multi-Level Attention Model for Evidence-Based Fact Checking and explored its effectiveness*
- Designed and conducted ablation studies on key components (e.g., two-step self-attention) to analyze their impact on model performance

NAVER Maps Mobile

Dec. 2021 – Feb. 2022

AI Engineer Intern

- Advisor: Changgi Kim
- Developed a subway boarding and alighting notification app using mobile sensor data
- Designed an algorithm to predict subway operational states (e.g., running, stopping) using sparse GPS data, accelerometer, gyroscope, and barometer readings

KAIST MLILAB

Jun. 2021 – Nov. 2021

Undergraduate Research Intern

- Advisor: Prof. Eunho Yang
- Studied foundational machine learning research papers to build theoretical knowledge
- Implemented model, conducted extensive experiments, and analyzed results to evaluate performance

Teaching Experiences

CS270: Intelligent Robot Design and Programming

Mar. 2024 – Jul. 2024

Teaching Assistant for Robotics Programming

Pre-URP

Jun. 2024 – Nov. 2024

Teaching Assistant for Deep Learning based Image Style Transfer Model

SoC Co-op

Dec. 2023 – Feb. 2024

Teaching Assistant for Digital Human Agent Research

Counseling Assistant

Mar. 2023 – Feb. 2024

Head Counseling Assistant for providing academic and career guidance to students

Other Experiences

AttentionX

Jan. 2025 – Present

- Conducting research on 3D Diffusion and Motion

KAIST GDSC

Aug. 2022 - Dec. 2022

- Studied Python execution optimizations (PyPy3, JIT)
- Explored browser-based image rendering differences

KAIST MAD Camp

Dec. 2021 - Feb. 2022

- Developed a website, "KAIST Dormitory Community" for student communication
- Developed a social networking diary app, "Empathy Diary", to enhance emotional sharing