

Hee-Jun Jung

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RESEARCH INTERESTS

- ML: Disentanglement Learning, Compositional Generalization, Representation Learning
- Vision: Generative Model, Variational Auto-Encoder (VAE)
- NLP: Knowledge Distillation
- Theory: Group Theory (Symmetries)

EDUCATION

- **Gwangju Institute of Science and Technology** Gwangju, South Korea
Integrated - AI Graduate School; GPA: 3.52/4.50 (current) *Mar. 2020 - present*
Courses: Algorithms, Artificial Intelligence, Machine Learning, Reinforcement Learning
- **Kyung Hee University** Suwon, South Korea
B.S. - Department of Mechanical Engineering; GPA: 3.72/4.30, *Mar. 2012 - Feb. 2020*
Courses: Object-oriented Programming, Discrete Structure, Engineering Mathematics (1,2,3)

RESEARCH EXPERIENCE

- **YourAGI** Sep. 2024 - Nov. 2024
AI Research Internship
- **Intelligent Robotic Mechatronics System Lab** Kyung Hee University
Undergraduate Researcher *Mar. 2019 - Dec. 2019*
 - **Advisor:** Soon Geul Lee

PUBLICATIONS

Conference

- **Multiple Invertible and Partial-Equivariant Function for Latent Vector Transformation to Enhance Disentanglement in VAEs, AISTATS, 2026:** author: **Hee-Jun Jung**, Jaehyoung Jeong, Kangil Kim;[paper, code]
- **Symmetric Space Learning for Combinatorial Generalization, ICLR, 2026:** author: Jaehyoung Jeong, **Hee-Jun Jung**, Kangil Kim;[paper, code]

Journal

- **CFASL: Composite Factor-Aligned Symmetry Learning for Disentanglement in Variational AutoEncoder, Transactions on Machine Learning Research (TMLR), 2024:** author: **Hee-Jun Jung**, Jaehyoung Jeong, Kangil Kim;[paper, code, video]
- **Feature Structure Distillation with Centered Kernel Alignment in BERT transferring, Expert Systems With Applications, 2023:** IF 8.5, JCR 9.8%; author: **Hee-Jun Jung**, Doyeon Kim, Seung-Hoon Na, Kangil Kim; [paper, code]

PRE-PRINT / UNDER REVIEW

- **Layer-Centric Factors of Variation Disentanglement for Task- and Model-Agnostic Generalization, under review at ICML 2026:** author: **Hee-Jun Jung**, Hoyong Kim, Minwoo Kang, Jongmin Park, Kangil Kim;[paper, code]
- **Joint Color-Geometric Transformation Aware Convolutional Layer, under review at ICML 2026:** author: **Hee-Jun Jung**, Sumgmin Mun, Junbo Kwon, Jongmin Park, Kangil Kim;[paper, code]
- **Disentangling Rotation and Translation Equivariant Features for 3D Shape Assembly, under review at CVPR 2026:** author: **Hee-Jun Jung**, Uigeun Ahn, Jin-Hwi Park, Kangil Kim;[paper, code]
- **Consistency of Symmetries on Factor States for Both Compositional Generalization and Disentanglement Learning, ongoing work:** author: **Hee-Jun Jung**, Hoyong Kim, Ilmin Kang, Kangil Kim;[paper, code]

PROJECTS

- **Development of Schema-Loading Neural Network for Accumulation of Trained Hypotheses into General and Shared Hypotheses Space:** Work was supported by the National Research Foundation of Korea (NRF) grant funded by the Korea government (MSIT) (2022R1A2C2012054)
- **Development of service robot and contents supporting children's reading activities based on artificial intelligence:** Work was supported by the Ministry of Culture, Sports and Tourism, in South Korea

TEACHING

- **Natural Language Processing Lecture** GIST
Teaching Assistant *2020, 2022*
 - **Model Implementation:** Implement RNN and Transformer model for Neural Machine Translation task. [lecture]

SKILLS SUMMARY

- **Languages:** Python, C++
- **Frameworks:** Scikit, NLTK, Pytorch, matplotlib
- **Tools:** Docker, GIT
- **Platforms:** Linux, Windows
- **Soft Skills:** Leadership, Writing, Public Speaking

HONORS AND AWARDS

- RA Student Research Achievement Scholarship, AI Graduate School, GIST, 2024.
- Superiority Scholarship, Kyung Hee University, 2017, 2019.
- Mentor Scholarship, Kyung Hee University, 2015.

ACADEMIC SERVICES

- Conference: ICML (2026), AISTATS (2026)
- Journal: TMLR (2025), Expert Systems with Applications (2024)