

Hee-Jun Jung

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RESEARCH INTERESTS

Disentanglement Learning, Group Theory, Variational Auto-Encoder (VAE), Combinatorial Generalization, Representation Learning

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, major GPA: 3.84/4.30, *Mar. 2012 - Feb. 2020*
Courses: Object-oriented Programming, Discrete Structure, Engineering Mathematics (1,2,3)

SKILLS SUMMARY

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

EXPERIENCE

- **Natural Language Processing Lecture** GIST
Teaching Assistant *1st semester, 2020, 2022*
 - **Model Implementation:** Implement RNN and Transformer model for Neural Machine Translation task.

PUBLICATIONS

- **CFASL: Composite Factor-Aligned Symmetry Learning for Disentanglement in Variational AutoEncoder, TMLR, 11/2024:** author: Hee-Jun Jung, Jaehyoung Jung, 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]

SUBMMISIONS

- **Consistent Symmetry Representation over Latent Factors of Identical Variations, ICLR 2025 submission:** author: Hee-Jun Jung, Hoyong Kim, Ilmin Kang, Kangil Kim; [paper, code]
- **Symmetric Space Learning for Combinatorial Generalization, ICLR 2025 submission:** author: Jaehyoung Jeong, Hee-Jun Jung, Kangil Kim; [paper, code]
- **Multiple Invertible and Equivariant Transformation for Disentanglement in VAEs, TPAMI, under review:** author: Hee-Jun Jung, Jaehyoung Jung, 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

HONORS AND AWARDS

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