

# Hyundong Jin

## Curriculum Vitae

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## EDUCATION

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**Chung-Ang University**, Seoul, Korea

**Ph.D.** Computer Science and Engineering

- Mar. 2022 to Feb. 2026
- Thesis Title: Knowledge Association and Differentiation for Efficient Continual Learning
- Advisor: Prof. Eunwoo Kim

**M.S.** Computer Science and Engineering

- Mar. 2020 to Feb. 2022
- Thesis Title: Continual Learning without Negative Interference in a Deep Neural Network
- Advisor: Prof. Eunwoo Kim

**B.S.** Electrical and Electronics Engineering

- Mar. 2015 to Feb. 2020
- Capstone Design: Face Recognition-based Dashcam for Vehicle Security

## RESEARCH OBJECTIVE

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Research expertise in *continual learning*, enabling scalable knowledge retention and adaptive capabilities by mitigating task interference across diverse domains and modalities. Explore research directions including *multimodal learning*, *resource-efficient learning*, and *multimodal large language models*, ultimately aiming toward Artificial General Intelligence (AGI).

## PUBLICATIONS

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### Conference Publications

- **Hyundong Jin**, Dongyo Han and Eunwoo Kim, “Which Concepts to Forget and How to Refuse? Decomposing Concepts for Continual Unlearning in Large Vision-Language Models”, IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2026.
- Heayoun Choi, **Hyundong Jin**, and Eunwoo Kim, “XIL: Cross-Expanding Incremental Learning”, International Conference on Learning Representations (**ICLR**), 2026.
- **Hyundong Jin**, Hyung Jin Chang, and Eunwoo Kim, “Instruction-Grounded Visual Projectors for Continual Learning of Generative Vision-Language Models”, IEEE International Conference on Computer Vision (**ICCV**), 2025.
- **Hyundong Jin**, Gyeong-Hyeon Kim, Chanho Ahn, and Eunwoo Kim, “Growing a Brain with Sparsity-Inducing Generation for Continual Learning”, IEEE International Conference on Computer Vision (**ICCV**), 2023.
- **Hyundong Jin** and Eunwoo Kim, “Helpful or Harmful: Inter-Task Association in Continual Learning”, European Conference on Computer Vision (**ECCV**), 2022.

### Journal Publications

- Kiseong Hong, **Hyundong Jin**, Sungho Suh, and Eunwoo Kim, “Exploration and Exploitation in Continual Learning”, Neural Networks (**NN**), 2025.
- **Hyundong Jin** and Eunwoo Kim, “Dataset Condensation with Coarse-to-Fine Regularization”, Pattern Recognition Letters, 2025
- Sujin Choi\*, **Hyundong Jin\***, and Eunwoo Kim, “Task-Aware Dynamic Model Optimization for Multi-Task Learning”, IEEE Access, 2023. (\* denotes for equal contribution)
- **Hyundong Jin**, Kimin Yoon, and Eunwoo Kim, “Gating Mechanism in Deep Neural Networks for Resource-Efficient Continual Learning”, IEEE Access, 2022.

## Ongoing works

- **Hyundong Jin** and Eunwoo Kim, “Mind the Interference: Towards Robust Continual Learning Across Modalities”, TBD.
- Gyeong-Hyeon Kim, **Hyundong Jin**, Dongyo Han, and Eunwoo Kim, “Action-incremental Learning for Temporal Action Segmentation”, TBD.

## PATENTS

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- **Hyundong Jin** and Eunwoo Kim, “Apparatus and Method for Continuous Learning of Neural Networks”, Republic of Korea. 10-2023-0156623
- **Hyundong Jin** and Eunwoo Kim, “A Neural Network Apparatus and Neural Network Learning Method for Performing Continuous Learning Using a Correlation Analysis Algorithm Between Tasks”, Republic of Korea. 10-2022-0101187

## RESEARCH PROJECT EXPERIENCES

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Multi-Modal Continual Learning with Context Understanding.	2023 to 2026
<ul style="list-style-type: none"><li>• This project develops a continual learning method that exploits multi-modal inputs to learn tasks of various domains while comprehending their respective contexts.</li><li>• Funded by National Research Foundation.</li></ul>	
Time-Series Action Prediction and Segmentation.	2024
<ul style="list-style-type: none"><li>• This project aims to develop high-performing deep learning models to learn and segment time-series actions for various equipments.</li><li>• Funded by HD Hyundai Construction Equipment.</li></ul>	
Learning Transferable Task Knowledge and Planner for Service Robots.	2023
<ul style="list-style-type: none"><li>• This project aims to develop an object-oriented framework to learn transferable knowledge and task hierarchy for task planning of a robot.</li><li>• Funded by Samsung Research Funding &amp; Incubation Center.</li></ul>	
Development of AI for Self-Improving Competency-Aware Learning.	2022 to 2024
<ul style="list-style-type: none"><li>• This project develops an algorithm that explores optimal models and parameters of prerequisite learning tasks suitable for new learning situations.</li><li>• Funded by IITP.</li></ul>	
Automated Deep Learning Technology for Multi-Task Learning.	2020 to 2023
<ul style="list-style-type: none"><li>• This project aims to develop versatile deep learning approaches to perform multiple tasks on devices of limited capacity while avoiding task interference and model redundancy.</li><li>• Funded by National Research Foundation.</li></ul>	

## AWARDS and HONORS

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- Grand Prize, Big Data Utilization Contest. Doosan Enerbility. 2023
- Excellence Prize, Big Data Utilization Contest. HD Hyundai XiteSolution. 2023

## INVITED TALKS

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- AhnLab, Continual learning session. 2023
- Korean Computer Vision Society (KCVS), Continual Learning session. 2023
- Korean Artificial Intelligence Association (KAIA) and NAVER, CV / NLP session. 2022

## TEACHING EXPERIENCES

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### Teaching Assistant (TA)

- Machine Learning, Chung-Ang University. 2024
- Advanced Artificial Intelligence, Chung-Ang University. 2023
- Capstone Design, Chung-Ang University. 2021
- Algorithms, Chung-Ang University. 2020

### Visual Intelligence and it's Applications

- Electronics and Telecommunications Research Institute (ETRI). 2020

## **ACADEMIC SERVICES**

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### **Conference Reviewer**

- Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- The Association for the Advancement of Artificial Intelligence (AAAI)
- International Conference on Learning Representations (ICLR)
- Winter Conference on Applications of Computer Vision (WACV)
- British Machine Vision Conference (BMVC)

### **Journal Reviewer**

- Transactions on Neural Networks and Learning Systems (TNNLS)