

Jehyun Park

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RESEARCH INTERESTS

- Theoretical foundations of neural network generalization and optimization
- Function space and Circuit based understanding of Neural Networks
- Meta-learning and few-shot adaptation in distribution shift scenarios

EDUCATION

Mar 2020 — Feb 2026	Sungkyunkwan University <i>BS., Computer Science and Engineering</i>	<i>Suwon, Korea</i>
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EXPERIENCES

Dec 2025 - Present	Research Intern, Seoul National University SNU-PI Lab <ul style="list-style-type: none">• Conducting Research in Optimization, Reasoning• Optimizing Sequence-Modeling architectures (Transformer, SSMs) and Optimizers• Multi-modal reasoning with Representation Learning and Reinforcement Learning• Under the supervision of Prof. <i>Young Jae Yu</i>	<i>SNU</i>
Mar 2025 — Aug 2025	Undergraduate Research Intern, Yonsei University ML/AI Lab <ul style="list-style-type: none">• Conducted Research in Few-shot Learning, Task Vectors, Test-Time-Training• Implemented algorithms and methods on task vectors in In-Context-Learning• Focused on Solving Out-Of-Distribution Problem, Catastrophic forgetting• Under the supervision of Prof. <i>Kyung Woo Song</i>	<i>Seoul</i>
Sep 2024 — Feb 2025	AI Researcher, The Catholic University of Korea St. Vincent's Hospital <ul style="list-style-type: none">• Implemented machine learning algorithms for fall risk prediction protocol• Handled imbalanced patient data with K-NN imputer, t-SNE, Sent2Vec embeddings.• Implemented Imbalanced-XGBoost based pipeline and achieved the best <i>f1-score</i>.	<i>Suwon</i>
Jun 2024 — Aug 2024	Undergraduate Research Student, iisLab <ul style="list-style-type: none">• Participated seminars for subjects such as Diffusion, Active-Learning, Flash-Attention• Presented in Machine Learning Seminars in iisLab• Under the supervision of Prof. <i>Ji Hyung Lee</i>	<i>SKKU</i>
Jun 2023 — Aug 2023	Industry-Academia Collaboration Software Engineer, SOYNET <ul style="list-style-type: none">• Participated in a year-long Industry-Academia Collaboration Project between SKKU & <u>Soynet</u>• Worked at the Company as a Software Engineer for 2 months• Ported Pytorch-based models to Tensorflow-based SOYNET Acceleration Engine• KIST University Person RE-ID model Optimization Applied at National Safety SQI Soft Task	<i>Seong Nam</i>

AWARDS & PROJECTS

Jan 2026	2025 KSC Excellence Award, Undergraduate Division	<i>Yeosu</i>
	<ul style="list-style-type: none">• Excellence Award in Undergraduate Paper Competition• KSC 2025 held at Korean Institute of Information Scientists and Engineers• Received for paper "<i>Adaptation in Out-Of-Distribution via Sparse Autoencoders in Vision Transformers</i>", sole author in Undergraduate division.	
Aug 2025 — Sep 2025	2025 Samsung AI Challenge 1st Prize Winner	<i>Suwon</i>
	<ul style="list-style-type: none">• Theme: Methods to Reduce Large Model Size Without Performance Degradation• <i>Individually</i> competed on optimizing and compressing Large Language Model• Implemented <i>Context-aware-Expert-Merging-and-Pruning</i> Method on Qwen-30B-A3B Model• Compressed 30B Parameters to 23.9B by training-free Expert Merging and Pruning• 1st prize winner and Awarded 7,500\$ from Samsung AI Center	
Jul 2024 — Feb 2025	20th Korean Economic Securities Derivatives Competition 2nd Place	<i>Seoul</i>
	<ul style="list-style-type: none">• Designed an ETF for IPO stocks in KOSPI & KOSDAQ Stock Market as part of a Team• Used GMM and t-SNE, Weighted K-NN for Unsupervised similarity analysis• Portfolio Revenue Optimization using Disciplined Convex Programming and SLSQ Programming• 2nd place and Awarded 4,500\$ with Korea Exchange Chairman's Award	
Jul 2024 — Jan 2025	LLM-based Recommendation System Health care Startup, iKooB	<i>Seoul</i>
	<ul style="list-style-type: none">• "Exploration of AI model architecture based on transfer learning Development of model data management platform" Collaborating with <u>iKooB</u>• Optimized a finetuned Llama-3 based 8B model on medical domains, implemented TF-IDF method and Chain-of-Thought (COT), Prompt tuning for Prototype model• Received Engineering Innovation Award from SungKyunKwan University	
Dec 2023 — Jan 2024	Winter Global Capstone Design Project, AIIT & SKKU	<i>Tokyo, Japan</i>
	<ul style="list-style-type: none">• Collaborated with Tokyo AIIT University and participation in seminars and presentations• Presented an effective construction scenario for signaling system cloud infrastructure for mobility Scenario proposal for integrated cloud and AI-based solutions	
Sep 2023 — Dec 2023	2023 NH Investment & Securities Big Data Competition Finals	<i>Seoul</i>
	<ul style="list-style-type: none">• Designed and trained a Vanilla Transformer Encoder for correlation analysis (<u>Fin2Vec</u>)• Used 1D-CNN, GRU for stock price data compression and tokenization• Implemented Self-Supervised Learning algorithm based on Self-Distillation and EMA (data2vec)	
Jun 2023 — Dec 2023	Development of SNS platform exclusively for college students	<i>SKKU</i>
	<ul style="list-style-type: none">• Sungkyunkwan University Startup Support Group: A SNS App development project: (<u>CLIPPED</u>)• Participated as a Project Manager and Frontend Developer• Implementation stack: Flutter, AWS, next.js	
Jan, Sep 2020 / Sep 2023	Sungkyun Software Scholarship for bachelor's scholarship	<i>SKKU</i>
	<ul style="list-style-type: none">• <i>Sungkyun Software Scholarship</i> Received from SungKyunKwan University• 3000\$ for each 3 Semesters, total amount of 9000\$ scholarship received.	

PUBLICATIONS

Adaptation in Out-Of-Distribution via Sparse Autoencoders in Vision Transformers

Korean Institute of Information Scientists and Engineers 2025 (bachelor's thesis')

Je Hyun Park*

Development of an Artificial Intelligence Algorithm for Fall Prediction (Poster Presentation)

Korean Society of Medical Informatics (KOSMI) Fall Conference, November 2025

Jaheon Park*, Yeon Woong Chung, M.D., Ph.D.^{†‡}, Seung Hyun Ko, M.D., Ph.D. Ph.D.[§]

Development of an Artificial Intelligence Algorithm for Fall Prediction (Poster Presentation)

Korean Society of Artificial Intelligence in Medicine (KOSAIM) Annual Conference, October 2025

Yeon Woong Chung, M.D., Ph.D.^{†‡}, **Jaheon Park***, Seung Hyun Ko, M.D., Ph.D. Ph.D.[§]

SKILL	Programming		
	Python	Various machine learning & processing libraries such as <u>Pytorch</u> , <u>scikit-learn</u> , <u>Numpy</u> , <u>cupy</u> , <u>cxypy</u>	3
	C, C++	Conducted many system-architecture college projects XV6, Spike-simulator, ns3, mini-shell	2
	CUDA	Optimization of pytorch functions : im2col, and XGBoost Minimal Variance Sampling methods	1
	Next, Node.js	Web Projects using Next.js and Node.js with tailwind-css	1
	Flutter	Developed front-end app for the SNS platform	1
	Language		
	Korean (Native)		
	English (Fluent) (TOEIC: 930)		
