

# 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

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## EDUCATION

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

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

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## AWARDS & PROJECTS

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

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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.§

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SKILL	Programming		
	Python	Various machine learning & processing libraries such as <u>Pytorch</u> , <u>scikit-learn</u> , <u>Numpy</u> , cupy, cxypy	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)		

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