Hyunju Lee

Seoul, South Korea
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FE Developer / AI Researcher

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I am a **Master's student at the Computer Vision Lab, Yonsei University**, working on **Neural Architecture Search (NAS), AutoML,** and **Model Efficiency**.

My research focuses on designing and analyzing **efficient vision models** that achieve the best possible performance under **computational and memory constraints**, mainly through **architecture search** and **progressive subnet design**. I have developed and released an **open-source AutoML library**, taking responsibility for both the system implementation and user-facing documentation. Alongside my research, I have accumulated around **three years of experience** as a developer and research assistant, building a solid background as a **full-stack engineer**. Ultimately, I aim to bridge research and engineering to create **smarter and more efficient AI systems** that can be deployed in real-world environments.

PUBLICATIONS

GrowTAS: Progressive Expansion from Small to Large Subnets for Efficient ViT Architecture Search
Hyunju Lee*, Youngmin Oh, Jeimin Jeon, Donghyeon Baek, and Bumsub Ham
IEEE/CVF Winter Conf. Applications of Computer Vision (WACV), Mar. 2026.

Efficient Few-Shot Neural Architecture Search by Counting the Number of Nonlinear Functions
Youngmin Oh*, **Hyunju Lee**, and Bumsub Ham
AAAI Conf. Artificial Intelligence (AAAI), Feb. 2025.

EDUCATION

M.S. in Electrical and Electronic Engineering, Yonsei University	Mar 2024 - Feb 2026
GPA 4.21/4.30	
Advisor: Prof. Bumsub Ham / Computer VIsion Lab.	
B.S. in Software Engineering, ChungAng University	Mar 2018 - Feb 2023
GPA 4.09/4.50	
Undergraduate Research Intern, ChungAng University	Jul 2020 - Sep 2020
Advisor: Prof. Byungwoo Hong / Image Lab	

EXPERIENCE

Research Assistant / Software Engineer   Feb 2023 - Dec 2023
NFS, Document Analysis Lab of Digital Analysis Division
Blockchain Web3 Developer   Jan 2021 - Feb 2023
Blockwave Labs.

RESEARCH PROJECTS

Yonsei AutoML Open Source Library   Mar 2024 - (Now)
Yonsei University, Computer Vision Lab | Python(Pytorch), Django
NFS Stamp Analysis Program   Feb 2023 - Jul 2023
National Forensic Service | OpenCV, wpf
Vocal Transformation Acoustic Machine Learning Module   Sep 2021 - Dec 2021
CAU Capstone Design
Hair Removal from Lesion Images Using GAN   Jul 2020 - Aug 2020
CAU Image Lab

INDUSTRIAL PROJECTS

OPICscript (service ended – see portfolio)   May 2023
An AI website for OPIc exam preparation with generated test responses – May 2025
Fooding (service ended – see portfolio)   Nov 2020
ChungAng University Dining Search Site | 50,000+ view   – Aug 2023

VR PROJECTS

Grad Escape (Unreal Engine VR Horror Escape Game)   Nov 2021 - Dec 2021
CAU Virtual Augmented Mixed Reality Lecture

HONORS AND AWARDS

DeFi (2nd Place) - Invincible EVMOS   Dec 2022
Evmos-Covalent #OneMillionWallets Hackathon / Encode Club

Cosmos SDK (1st Place)   Jul 2022
HackATOM Seoul 2022 / Krypto Seoul | Multi-wallet dashboard 'MEPE'

HackATOM Seoul 2022 Critics' Awards - Interchain Award   Jul 2022
HackATOM Seoul 2022 / Krypto Seoul | Multi-wallet dashboard 'MEPE'

Academic Merit Scholarship   2021-2
ChungAng University

PropTech in Campus SNU 2021 (3rd Place)   Sep 2021
Korea Prop Tech Forum X SNU Graduate School of Environmental Studies

PE Presentation Contest (1st Place) - Lesion Image Hair Removal Module   Sep 2020
ChungAng University DaVinci SW/AI TECH FAIR 2020

Creative Fusion Design Contest (1st Place)   Dec 2019
ChungAng University X Robotics Association

2019 Best Software Awards (2nd Place)   Nov 2019
ChungAng University DaVinci SW Education Institute

2019 Public Interest Talent Scholarship Excellence Award (2nd Place)   Nov 2019
Seoul Scholarship Foundation

2019 SKT NUGU Play Contest Encouragement Award (3rd Place)   Sep 2019
SK Telecom | Voice Mafia Game Host Servive 'Mafia MC'

Always-On Project Contest Excellence Award (2nd Place)   Nov 2018
ChungAng University | Closet Management Android Application

LEADERSHIP

Software Collage Ambassador 1st Generation, Media Director   2019
Software Collage, CAU

CLUG Android Cell Sub-Leader   2019
Software Engineering Academic Club, CAU

Vice President of the Student Council   Jul 2016 - Jul 2017
MyongJi High School

SKILLS

Tools and Languages   Python, C/C++/C#, JAVA, Javascript, Pytorch, OpenCV, SPRING,
                                   REACT, web3.js, Unreal Engine, .NET, GO

Communication   Korean (Native), English (**Toeic Speaking : 160(AL)** [2025.08.31])

Volunteer

Seoul Scholarship Foundation Public Interest Talent Scholarship   Apr 2019 - Nov 2019
Lonely Death Project Volunteer Participation
2018 PyeongChang Winter Olympics SID Passion Crew   Feb 2018
Gangneung Ice Hockey Center, GHC Sports Information Desk

Articles

**- Blockchain-Enthusiast MZ Youth "Even 'Blockchain Novices' Will   Jul 2022
Create User-Friendly Web3 Platform"**
**- PropWave and Seoul National University Hold Unique 'Student   Sep 2021
PropTech' Event in Korea**
**- DaVinci SW Education Institute Holds 2020 DaVinci SW·AI TECH FAIR   Sep 2020
Online Award Ceremony**
**- Special Scholarship Recipient Story "Becoming a Scholarship   Nov 2019
Recipient for Public Good Talents"**
**- 2019 Second Half NUGU Play Development Publicity Contest Awards   Sep 2019
Ceremony, Meeting the Honorees**