

Yoojin Oh

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Education

Ewha Womans University, BS in Artificial Intelligence Mar 2022 – Feb 2026 (expected)

- **GPA:** 4.23/4.3

- **Coursework:**

- **AI:** Machine Learning (A+), Deep Learning (A+), CV (A+), NLP (A+), RL (A+), Medical AI (A+), Data Mining (A+), Data Science (A+), MLOps (A+), Capstone Design (A+)
- **Math:** Calculus (A+), Multivariate Calculus (A+), Linear Algebra (A+), Numerical Analysis (A+), Random Process (A0)
- **CS:** Programming Languages (Python, C, Java, R) (A+), Data Structure (A+), Computer Architecture (A0), Computer Graphics (A0), Database (A+), Computer Algorithm (A+)

Research Experience

Computer Vision Lab, POSTECH Jun 2025 – present

Research Intern (Advisor: Suha Kwak)

- Audio-Visual Multi modal Learning - Sound Source Localization

Practical AI Lab, Ewha Womans University Mar 2024 – Jun 2025

Research Intern (Advisor: Junhyug Noh)

- Test Time Adaptation(TTA) using diffusion models for Robust Learning
- Improving Activation Map for Weakly Supervised Object Localization(WSOL) task

AI Security Lab, Ewha Womans University Nov 2023 – Feb 2024

Research Intern (Advisor: Seeun Oh)

- Advancing Data Augmentation for Self-Supervised Learning in Realistic Website Fingerprinting

Publications

[1] **Yoojin Oh**, Junhyug Noh. “Beyond Softmax: Dual-Branch Sigmoid Architecture for Accurate Class Activation Maps.” *British Machine Vision Conference (BMVC 2025)*.

[2] Jihyun Yu, **Yoojin Oh**, Wonho Bae, Mingyu Kim, Junhyug Noh. “SteeringTTA: Guiding Diffusion Trajectories for Robust Test-Time-Adaptation.” *Putting Updates to the Test (PUT) Workshop at International Conference on Machine Learning (ICMLW 2025)*.

Work Experience

Spresto Jul 2024 – May 2025

Research Intern

- Develop a Spycam detection model using Test Time Adaptation to prevent illegal filming

Naver Z Jul 2023 – Aug 2024

Collaborated with Naver Z through an industry-academia project

- Fine-tuned Stable Diffusion & Created LoRA for ZEP Object Generation
- Advanced Chatbots based on Prompt Engineering

Awards

SPARCS Service Hackathon 3rd Place - KAIST

Feb 2024

- AI Memory Recording Service, Kilock
- Developed Image Generation Model based on user-conversation with Chatbot

College of AI Ideas Competition 1st Place - Ewha Womans University

Dec 2023

- Constructed Deep Voice Discrimination and Phishing Text Classification Pipeline for Voice Phishing Dual Defense

Scholarships

The National Excellence Scholarship (STEM)	Jun 2024 – present
Song Bok Eun Scholarship	Jan 2024
Scholarship for Academic Excellence	Nov 2023
Scholarship for Academic Excellence	Aug 2023
Kim Hyun Gon Shin Kyung Soon Scholarship	May 2023
Scholarship for Academic Excellence	Feb 2023
Hwain Chang Lee Scholarship	Nov 2022
Kathryne B. Sears Memorial Scholarship	Nov 2022

Projects

Deepfake defense system	finallyupper/deepsafe
• Developed DeepSafe, a two-layered defense system using Adversarial Robust Watermarking to prevent deepfake-based identity theft and enable post-attack identity tracking based on U-Net architecture.	
Driving Guide AI	finallyupper/driving_guide
• Developed a real-time AI-driven driving guide using Object Detection and Instance Segmentation to assist drivers by detecting pedestrians, traffic signs, and lanes.	
Enhancing LLM for QA task	finallyupper/upstage-qa
• Developed a pipeline to enhance Upstage (Solar) LLMs for QA tasks, optimizing prompts and integrating multiple knowledge bases for high performance on school policy documents and MMLU-Pro datasets.	
Pytorch Implementations of models	
• U-Net: Convolutional Networks for Biomedical Image Segmentation • Transformer: Attention Is All You Need • NetCLR: Realistic Website Fingerprinting By Augmenting Network Traces	
Develop Autonomous Car	
• Developed a small autonomous car on Raspberry Pi using TensorFlow.	

ADDITIONAL COURSES & CERTIFICATES

AI Global Field Training, San Francisco	Jan 2025
EPITA: Ecole d'Ingénieurs en Informatique, Summer Program AI Course	Jul 2023
Generative AI Course & Project	
Machine Learning Course & Project	
GPA: 4.0 (ECTS Credits: 6.0, Perfect Score)	
KAIST: Science Communication Festival 2022 - ICISTS	Aug 2022
Created an Introductory Video about NFTs	

Affiliations

Prometheus (AI club)	Aug 2022 – Mar 2025
Development Group Member	
• Participated as a Project Leader, Make Lecture notes and videos of AI basics for beginners. • Organized a AI hackathon. • Tached programming languages and toy vision projects at a Chungshin Girl's High School.	
Google Developer Students Club(GDSC) Ewha	Mar 2023 – Jul 2023

Skills

Skills: Python, C/C++ , Java, R

Learning: Pytorch, Tensorflow, Keras, OpenGL