

Minsu Park



Personal Data

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github	https://github.com/0601p

Education

Yonsei University Bachelor's degree in Computer Science.
Mar 2020 – Feb 2025

Seoul National University Master's degree in Interdisciplinary Program in Artificial Intelligence([IPA1](#)).
Mar 2025 – Advised by Prof. [Gunhee Kim](#), Seoul National University Vision & Learning Lab([SNUVLL](#))

Publications

Exploring generalizable features in face forgery detection.

- Improved face forgery detection performance at unseen domain by train model to get generalizable features, using domain adversarial method and contrastive learning method.
- Our [paper](#), [presentation](#)
- Our paper accepted to [IPIU2024](#).

Improving Multi-lingual Alignment Through Soft Contrastive Learning

- Improved bitext mining performance using soft contrastive learning, which uses well-trained monolingual spaces to weight each negative samples in contrastive learning.
- Our [paper](#) accepted to [NAACL SRW 2024](#).

Generative Adversarial Embedding Network via Pseudo-Inverse transformation of the Generator.

- Proposed a novel GAN framework that incorporates a pseudo-inverse based encoder with a prior alignment adversarial loss.
- Our [paper](#) accepted to [KCC2025](#).

MAVIS: A Benchmark for Attributed Visual Question Answering with Multimodal Documents

- The first benchmark for multimodal attributed question answering, providing 157k citation-annotated visual QA instances and new evaluation metrics.
- Our paper accepted to [AAAI2026](#).

Work Experience

Internship
Dec 2022 – Jun 2023

[Yonsei Vision and Learning Lab](#) (Prof. Jonghyun Choi's Lab)

- Training Image Classification Model for Mobile Settings

- Implemented the train, evaluation, and inference code, and trained the model.
- Considering that the training dataset has many incorrect data, suggested using noisy label classification methods. implemented [Co-teaching](#) and [Label Refinery](#) method.
- Evaluated our model using confusion matrix.

Industry-Academic Cooperation
Dec 2022 – Apr 2023

[YAI x Pozalabs](#)

- Researching MIDI Generating Model for Music Generation
 - Developed a model for combinatorial music generation utilizing the [ComMU](#) dataset. Our task was to generate MIDI files based on given metadata using NLP model, TransformerXL.
 - Proposed and implemented Group Encoding method and Soft Label for ComMU and trained models using each method.
 - Check our official [github](#) to get explanation about our methods.

Industry-Academic Cooperation
(Internship)
Sep 2023 – Present

[YAI x Wecover](#) (Linq)

- Researching language-agnostic semantic embedding space
 - Proposed new contrastive learning method(loss and finetune method) to align multilingual language embeddings.
 - Implemented the train and evaluation, and trained the model.
 - Check our paper [here](#).

Rewards

[모빌리티 SW 해커톤](#)
Hyundai Mobis, Feb 2023

- Won the 2nd prize.
- Developed an STT model that performs well in a noisy mobility environment.
- Processed data for noise remove model. Mobility noise and speech were synthesized carefully and transformed them into spectrogram using FFT.
- Check our [github](#) to see codes and descriptions.

Software Capstone Design 1
Yonsei Univ, Jun 2023

- Won the 1st prize.
- More descriptions are at <[Courses and Lectures](#)>
- Check our [github](#) to see codes.

[SW 중심대학 공동 AI 경진대회](#)
SW 중심대학협의회, Jul 2023

- Won the 4th prize(SW 중심대학협의회장상).
- We trained satellite image segmentation model.
- Implemented train codes and preprocessing codes.
- Trained model that is combination of [Upernet](#) and [DCNv3](#).
- Check our [github](#) to see codes.

[Prompt-er Day Seoul 2023](#)

- Advanced to the Finals(within the top 20).

OpenAI x SKT, Sep 2023

- Developed a pipeline that generates reports via RAG, COT and prompt engineering using diverse data.
- Implemented semantic search algorithm using ChatGPT embeddings and vector database. Improved chunking quality using visual info and structural info.
- Check our [github](#) to see codes and descriptions.

Academic Excellence Scholarship
Yonsei Univ, Spring 2023

Personal Projects

Deep Learning practices	<ul style="list-style-type: none">• Implemented and trained DQN, DDPM, GAN, DCGAN, InfoGAN, Transformer, VAE, based on the papers.• Project github
ChatWine	<ul style="list-style-type: none">• Developed chatbot for wine recommendation using RAG and prompt tuning.• Project github

Courses and Lectures

Projects

Linear algebra and its applications
Yonsei Univ, Fall, 2021

A.I
Yonsei Univ, Spring, 2022

- Stock Price Prediction using RNN.
- Project [github](#)

Theory and practice of deep learning
Yonsei Univ, Fall, 2022

- Modifying convolutional layer, skip connection, losses, backbone layers of Unet.
- Project [paper](#), [presentation](#)

Computer Vision
Yonsei Univ, Fall, 2022

AI convergence practice
Yonsei Univ, Fall, 2022

- Converting a style of image to that of a Korean painter.
- Our [ckpt](#)

Multi-Core and GPU Programming
Yonsei Univ, Spring, 2023

- Implemented 1D, 2D CNN, matrix multiplication, sum reduction with CUDA.

Software Comprehensive Design 1
Yonsei Univ, Spring, 2023

- Improving zero-shot performance on MaskCLIP using global context of images.
- Won the 1st prize.
- Our [github](#), [paper](#), [presentation](#)

Software Comprehensive Design 2
Yonsei Univ, Fall, 2023

- Exploring generalizable features in face forgery detection.
- Accepted to [IPIU2024](#)

Creative and Independent AI Research 1

- Generative Adversarial Embedding Network via Pseudo-Inverse transformation of the Generator.
- Accepted to KCC2025
- Learned and practiced numpy, PyTorch and basic deep learning methods. Implemented train, test, eval codes and trained simple CNN, RNN models.
- [github](#)

모두를 위한 딥러닝 2 Youtube lecture
[Youtube lecture](#), HKUST Sung Kim

Pytorch Zero to All
[Youtube lecture](#), HKUST Sung Kim

Deep Learning for Computer Vision
(CS231n)
[Youtube lecture](#), Stanford Univ, 2017

Skills

Programming Languages	C, C++, C#, Python, Java, JavaScript
Deep Learning Framework and Tools	PyTorch, Huggingface, mmsegmentation, CUDA, Langchain, OpenAI API
Web Dev	React.js, Flutter, HTML, CSS, Django, SQL
Natural Languages	English, Korean(native)