

Minsu Park



Personal Data

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| github | https://github.com/0601p |

Education

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| Yonsei University | Bachelor's degree in Computer Science. |
| Mar 2020 – Feb 2025 | |
| Seoul National University | Master's degree in Interdisciplinary Program in Artificial Intelligence(IPAI). |
| Mar 2025 – | Advised by Prof. Gunhee Kim , Seoul National University Vision & Learning Lab(SNUVL) |

Publications

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| Exploring generalizable features in face forgery detection. | <ul style="list-style-type: none">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, presentationOur paper accepted to IPIU2024. |
| Improving Multi-lingual Alignment Through Soft Contrastive Learning | <ul style="list-style-type: none">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. | <ul style="list-style-type: none">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 | <ul style="list-style-type: none">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

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| Internship Dec 2022 – Jun 2023 | Yonsei Vision and Learning Lab (Prof. Jonghyun Choi's Lab) <ul style="list-style-type: none">Training Image Classification Model for Mobile Settings |
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| | <ul style="list-style-type: none"> - 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 | <p>YAI x Pozalabs</p> <ul style="list-style-type: none"> • Researching MIDI Generating Model for Music Generation <ul style="list-style-type: none"> - 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 | <p>YAI x Wecover (Linq)</p> <ul style="list-style-type: none"> • Researching language-agnostic semantic embedding space <ul style="list-style-type: none"> - 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 | <ul style="list-style-type: none"> • 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 Deisgn 1 Yonsei Univ, Jun 2023 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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

- Implemented and trained DQN, DDPM, GAN, DCGAN, InfoGAN, Transformer, VAE, based on the papers.
- Project [github](#)

ChatWine

- 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](#)

Machine Learning in Bioinformatics
Seoul Univ. Spring, 2025

Creative and Independent AI Research 1

- Generative Adversarial Embedding Network via Pseudo-Inverse transformation of the Generator.
- Accepted to KCC2025

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

- Learned and practiced numpy, PyTorch and basic deep learning methods. Implemented train, test, eval codes and trained simple CNN, RNN models.
- [github](#)

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

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

Skills

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| 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) |