

JUNIOR, DEPARTMENT OF ARTIFICIAL INTELLIGENCE, YONSEI UNIVERSITY

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Education

Yonsei University

Seoul, S.Korea

Mar. 2022 - Expected Feb. 2026

B.S. IN ARTIFICIAL INTELLIGENCE

• GPA: 3.74 / 4.3 (Overall), 3.77 / 4.3 (Major)

Research Interests

- Medical Imaging with Deep Learning
- Computer Vision: NeRF. Liif
 - Especially interested in 4D CT Scan Generation and NeRF based 4DCT Interpolation.
- Reinforcement Learning: Skill-prior learning
- Multimodal Learning
 - Trying to use modality and RL methods for better CT scan quality.

Experience ____

Medisys Lab, Yonsei University (Advisor: Prof. Jongduk Baek)

Seoul, S.Korea

Sep. 2023 - PRESENT

UNDERGRADUATE RESEARCH INTERN

- Have been reading and summarizing papers of Computer Vision and Medical Image field.
- Learning GPU acceleration by CUDA programming and managing the lab's GPU server.
- Recently studying to apply attention mechanism to sinogram data with my mentor, Minwoo Yu.

2024 CS / Al Yonsei - USC Summer Program

California, USA

ONE OF 6 REPRESENTATIVES OF THE CS/AI UNDERGRADUATE STUDENTS

Jul. 2024 - Aug. 2024

- Students were chosen by professors through English interview and academic competency.
- Attended AI and data science lectures in a two-week program at the University of Southern California (USC), supported by national funding.

Course & Personal projects _

Yonsei Time Table Service (Individual, Link)

Seoul, S.Korea

FROM CCO4150: SW/AI BUSINESS DESIGNING

May. 2024 - Jun. 2024

- Developed a user-friendly time table creation service which allows students to create schedules with no class days and find courses based on available mileage.
- Gained experience in project design, product testing and evaluation (MVT, MVP), debugging (Postman), and full-stack web development (HTML, JavaScript, CSS).
- Achieved the 2nd highest score out of 42 students in final evaluation.

Low-Dose CT Scan Denoising using Neural Networks (Individual)

Seoul, S.Korea

ASSIGNMENT TO EVALUATE UNDERGRADUATE INTERNS OF MEDISYS LAB

Oct. 2023 - Jan. 2024

- Applied UNet, Red-CNN, and Uformer architectures at low-dose CT scans for denoising.
- Learned how to make high-quality PPT (add Region of Interest (ROI), etc.), image quality metrics and their differences (PSNR, SSIM), and side effect of using different upsampling methods.

GenCruit Service (Team)

Seoul, S.Korea

YONSEI 1ST GENAI COMPETITION

Oct. 2023 - Dec. 2023

- Developed a web service (GenCruit) using GPT-4 and DALL-E APIs to generate recruitment posters for business owners.
- Performed prompt engineering and designed the web interface by Figma.
- Won the silver medal among 6 teams in final.

OCTOBER 9, 2024 KYUNGSEO KWON · CV

Hangeul OCR Model (Team, Link)

Seoul, S.Korea

FROM AAI3201: INTRODUCTION TO DEEP LEARNING THEORY AND PRACTICE

Oct. 2023 - Dec. 2023

- Made a Hangeul OCR model trained at the grapheme-level that can accurately detect full characters, due to their fixed positions.
- Improved upon previous model that were trained only with commonly-used Hangeul characters, by also detecting uncommon ones.

Bone Segmentation using UNet (Team)

Seoul, S.Korea

ASSIGNMENT TO EVALUATE UNDERGRADUATE INTERNS OF MEDISYS LAB

Oct. 2023 - Dec. 2023

- Made bone segmentation model using UNet structure and the Mayo dataset.
- Got the best result for both qualitative and quantitative analysis among three teams. (4 students each)

Kimchi Dataset Classification (Individual, Link)

Seoul, S.Korea

FROM AAI3201: INTRODUCTION TO DEEP LEARNING THEORY AND PRACTICE

Oct. 2023 - Nov. 2023

- Made 11 class Kimchi image classifier using dataset from AlHub, both in MLP and CNN.
- Focused on getting basic abilities: learned how to build neural network, compared the effect of using various loss functions and regularizations.

Honors & Awards

2024 Bachelor & Master's Accelerated Degree Program Yonsei Univ.

Seoul, S.Korea

Been selected to be provided benefits like free tuition during the course.

28 out of 78 teams got awarded. Evaluated by tutees' grade and steadiness.

2023 **Silver Prize** Yonsei 1st GenAl Competition

Seoul, S.Korea

Won the silver medal among 6 teams in final.

2023 **Best Tutor Award (OOP)** 2023-1 Yonsei Eagle Tutoring Program

Seoul, S.Korea

Teaching Experiences

2024 **Program Director** Freshman Tutoring Program (Department of AI)

Seoul, S.Korea

2023 **Program Director** Freshman Tutoring Program (Department of AI)

Seoul, S.Korea

Extracurricular Activities

Yonsei GongSaRang (BallLove) Basketball Club

Seoul, S.Korea

CLUB MEMBER

Sep. 2024 - PRESENT

• Playing basketball at gym in Yonsei University every saturday morning.

AI Freshman Tutoring Program, Yonsei University

Seoul, S.Korea

TUTOR & PROGRAM DIRECTOR

Jul. 2023 - PRESENT

- Established and currently working as the first student tutor in AI department.
- Teaching major courses: OOP, Machine Learning, Probability to Freshmen and Sophomores during summer and winter break.
- Tutors only can teach courses in which they've got A.

Teaching & Learning Innovation Center, Yonsei University

Seoul, S.Korea

EAGLE TUTOR

Mar. 2023 - PRESENT

• Teaching OOP every first semester to students with a submajor in Computer Science.

MintonIs Badminton Club

Seoul, S.Korea

CLUB MEMBER

Jan. 2023 - Oct. 2023

• Played badminton (doubles) with people from various universities every weekend.

Skills

Computer Languages

• C, C++, Python, Kotlin, JavaScript, HTML, CSS, MATLAB

Language

- Korean: Native
- English: Intermediate (TOEIC 895 / 990)

Ability & Hobby

- Flute: Played in Daeduk youth orchestra for 3 years (Nov. 2012 Oct. 2015)
- Soccer: Center back player of A AIDA team (department of AI, Mar.2022 PRESENT)