

Seongho Yoon

Integrated M.S / Ph.D student

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EDUCATION

Mar. 2025 ~ Present	Korea University School of Industrial Management Engineering <i>Master Student</i>	Seoul, Korea
Mar. 2019 ~ Feb. 2025	Kwangwoon University Department of Information Convergence <i>Advisor: Sangmin Lee</i> <i>B.S. in Information Convergence</i> GPA: 4.21 / 4.5	Seoul, Korea

RESEARCH INTERESTS

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- Computer vision
 - Anomaly detection

PAPERS

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- Joonhyeon Song, Seohwan Yun, Seongho Yoon, Joohyeok Kim, Sangmin Lee EP-SAM: Weakly Supervised Histopathology Segmentation via Enhanced Prompt with Segment Anything
<https://arxiv.org/abs/2410.13621>
 - Joohyeok Kim, Joonhyeon Song, Seohwan Yun, Seongho Yoon, Sangmin Lee, CAD: Memory Efficient Convolutional Adapter for Segment Anything <https://arxiv.org/abs/2409.15889>

INTERNSHIPS

Research Participant

- *AI as a Service Laboratory, Kwangwoon University, Korea (Jun. 2023 ~ Present)*
- Participated in research paper seminar
- Research on Weakly Supervised Semantic Segmentation in Digital Pathology

PATENTS

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1. Joonhyeon Song, Seohwan Yoon, Seongho Yoon, Joohyeok Kim, Yunhyeok Do, "APPARATUS AND

PROJECTS

A web application for trend analysis and image retrieval for users in the fashion industry

- *Industry-Academia collaboration capstone design project (Apr. 2024 ~ Oct. 2024)*
- Data collection automation using the Apache Airflow framework
- Development of an image retrieval system using the Grounded-SAM model on collected data

Mortality risk analysis using patient information

- *Team project for course Data Analysis of 2023 Fall semester (Oct. 2023 ~ Nov. 2023)*
- Using various types of machine learning and deep learning models for predicting mortality
- Rule extraction for patient mortality using a decision tree model
- Analysis of mortality scenarios for specific patients

Prediction of thyroid disease classification

- *Team project for course Data Mining of 2023 Fall semester (Oct. 2023 ~ Nov. 2023)*
- Training a predictive model to classify thyroid disease based on patient information
- Conducting feature engineering using various methods of feature selection and extraction

Generating questions based on summaries of international news articles

- *Team project for course Text Mining of 2023 Spring semester (Apr. 2023 ~ Jun. 2023)*
- Collecting international news article data through web crawling
- Extractive summarization techniques were utilized to convert the collected data into questions

Analysis of factors influencing specific types of traffic accidents

- *Team project for course Big Data Language of 2022 Spring semester (Apr. 2022 ~ May. 2022)*
- Collecting TMACS traffic accident data through web crawling
- Performing correlation analysis after merging various road information datasets

AWARDS AND HONORS

- Encouragement Award in the Industry-Academia Collaboration Software Project Exhibition, Kwangwoon University, Korea (Nov. 2024)
- Encouragement Award in the Capstone Design Exhibition of the School of Information Convergence, Kwangwoon University, Korea (Nov. 2024)
- National Science & Technology Scholarship, KOSAF, Korea (Mar. 2023 ~ Dec. 2024)
- Academic Excellence Scholarship, Kwangwoon University, Korea (Dec. 2022)
- Academic Excellence Scholarship, Kwangwoon University, Korea (Aug. 2022)
- Dean's List (Academic Excellence Award), Kwangwoon University, Korea (May. 2020)
- Academic Excellence Scholarship, Kwangwoon University, Korea (Dec. 2019)
- Academic Excellence Scholarship, Kwangwoon University, Korea (Aug. 2019)

SKILLS AND TECHNIQUES

- Python, Java

- Scikit-learn, PyTorch, Tensorflow
- Numpy, Pandas
- Airflow

CERTIFICATION

- SQLD (Sep. 2022)
- ADsP (Sep. 2022)
- Korean History Proeficiency Test level 1 (Sep. 2021)

ENGLISH PROFICIENCY

- TOEIC 825 (Feb. 2024)

WORK EXPERIENCE

- Working as a tutor at D.LAB Coding Academy Jeongja Branch(Mar. 2023 ~ Nov. 2024)