

Younga Shin

Master student

Yonsei University

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<https://shinyounga.github.io/>

EDUCATION

Sep. 2024 ~ Present	Yonsei University School of Civil and Environmental Engineering <i>Advisor: Hongjo Kim</i> <i>Master Student</i> GPA: 4.22 / 4.3	Seoul, Korea
Mar. 2019 ~ Aug. 2024	Dongguk University Department of Film Production <i>Advisor: Jongho Park</i> <i>B.A. in Film and Digital Media</i> GPA: 4.22 / 4.5 <i>Summa Cum Laude</i>	Seoul, Korea

RESEARCH INTERESTS

- Levee Failure
- Water level fluctuation
- Retrieval Augmented Generation
- Object detection image segmentation

CONFERENCES

1. Younga Shin, Hongjo Kim, "2024 KICEM Annual Conference", Korea Institute of Construction Engineering and Management, Jeju, Korea (Nov. 2024) - Poster
2. Younga Shin, Kichang Choi, Yeonjoo Kim, Hongjo Kim, "Creative Construction Conference (2025)", Creative Construction Conference (CCC), Zadar, Croatia (Jun. 2025) - Oral

PROJECTS

- Autonomous Evolutionary AI-Based Smart Sensing Platform for Early Detection and Proactive Response to Levee Failures, National Research Foundation of Korea, Korea / Project Manager (Aug. 2024 ~ Present)
- Vision-Based Safety Securing Technology for Temporary Structure Installation and

Dismantlement, The Korea Agency for Infrastructure Technology and Advancement, Korea / Development a dataset for object detection for PPE (Personal Protective Equipment) (May. 2024 ~ Present)

- Development of Intelligent CCTV-AI-Based Construction Site Video Analysis Technology, Kumho Engineering & Construction, Korea / Video Editor & Content Creator (May. 2024 ~ Present)

CERTIFICATIONS

- Engineer Information Processing (2024.06.18)
- Engineer Surveying Geo-Spatial Information (2022.12.30)
- Engineer Cadastral Surveying (2023.09.01)
- Computer Specialist in Spreadsheet & Database Level-1 (2022.03.11)
- Driver's License (1st Class - Ordinary) (2021.02.09)
- Korean History Proficiency Test - Level 1 (2024.06.05)

LANGUAGE

- English: TOEIC 925, TOEIC Speaking: Advanced Low
- French: Basic conversational proficiency

SKILLS AND TECHNIQUES

- Deep Learning and AI Applications
 - Developed deep learning models for water level prediction in ungauged river basins
 - Applied computer vision models for object detection and segmentation of construction workers and PPE (Personal Protective Equipment) to support on-site safety monitoring
- Media Production & Visual Communication
 - Videographing PD, SBS NEWS - SUBUSU NEWS (1.23M subscribers), Korea (Jul. 2021 - Feb. 2024) Planned and executed visual sequences for news features, managing camera, lighting, and sound in collaboration with editorial teams.
 - Filmed and edited 40+ short films as assistant director, cinematographer, and post-production editor
 - Taught youth how to produce barrier-free films through a 2-year volunteer media education program
 - Skilled in visual storytelling, branding, and multicultural communication
- Software and Tools
 - BIM software (e.g., Revit) for parametric modeling and automation of levee cross-sections using Dynamo, including geotechnical attributes
 - Docker for deployment of machine learning models
 - Deep learning framework (PyTorch, TensorFlow, Keras)
 - Video editing (Final Cut Pro, Adobe Premiere Pro)
 - Graphic design (Adobe Photoshop, Illustrator)

AWARDS AND HONORS

- Academic Excellence Scholarship, Dongguk University, Korea (Mar. 2020)
- Academic Excellence Scholarship (top academic achievement in class ; aesthetics of film), Dongguk University, Korea (Mar. 2020)
- 2020 Cultural Heritage Channel Video Contest Idea Bank Award Winner, Cultural Heritage Administration, Korea (Nov. 2020)
- Work scholarship (student council), Dongguk University, Korea (Sep. 2020)
- Academic Excellence Scholarship, Dongguk University, Korea (Mar. 2021)
- Academic Excellence Scholarship, Dongguk University, Korea (Mar. 2023)
- Academic Excellence Scholarship, Dongguk University, Korea (Sep. 2023)
- Jongno-gu Scholarship Foundation Scholarship, Jongno-gu Scholarship Foundation, Korea (Feb. 2025)