Younga Shin

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EDUCATION

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

RESEARCH INTERESTS

- Levee Failure
- Water level fluctuation
- Retrieval Augmented Generation

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)

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

WORK EXPERIENCE

- Sub-shotting PD at SBS NEWS - SUBUSU NEWS, Korea (Jul. 2021 ~ Feb. 2024)

SKILLS AND TECHNIQUES

- Media Production & Visual Communication
  - Videographing PD at SBS YouTube (1.23M subscribers) for 2 years 8 months, handling camera, lighting, sound, and field production
  - Filmed and edited 40+ short films as assistant director, cinematographer, lighting director and editor
  - Taught barrier-free filmmaking to youth for 2 years through volunteer education program
  - Skilled in visual storytelling, branding, and multicultural communication
- 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
- 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 (e.g., PyTorch, TensorFlow)
  - Video editing (Final Cut Pro, Adobe Premiere Pro)
  - Graphic design (Adobe Photoshop, Illustrator)

CERTIFICATIONS

- Computer Specialist in Spreadsheet & Database Level-1 (2022.03.11)
- Engineer Surveying Geo-Spatial Information (2022.12.30)
- Engineer Cadastral Surveying (2023.09.01)
- Korean History Proficiency Test - Level 1 (2024.06.05)
- Engineer Information Processing (2024.06.18)

QUALIFICATIONS

- TOEIC Speaking Advanced Low (2024.04.10)
- TOEIC 925 (LC 460 RC 465) (2025.02.15)

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)