

Jong Gwang Kim 김종광

Architectural Designer & AI Researcher

k.jongggwang@gmail.com

+82 10-3974-4254

jongggwangkim.com

Seoul, South Korea

Senior designer in the Urban Redevelopment Division at HAEAHN Architecture (5 years in housing renewal projects), researching the intersection of Graph Neural Networks and BIM. I aim to develop AI tools that support designers' judgment in the earliest stages of design.

Education

M.S., Applied Artificial Intelligence, Graduate School of SW·AI Convergence, Korea University 2023 - 2026

Thesis: Supervised vs. Self-Supervised GNNs for BIM Element Classification

B.Arch (5-year program), Department of Architecture, Korea University 2015 - 2022

Work Experience

HAEAHN Architecture — Senior Designer 2022 - Present

Urban Redevelopment Division | Housing renewal design and project documentation across all phases

Gojan Yeonlip District 5 Reconstruction 2025.08 - Ongoing

Parking layout planning

Yeongdo District 1-5 Housing Redevelopment 2022.10 - Ongoing

Facade design, 3D modeling & CG direction, residential unit floor plans

Pyeongtaek Godeok Package Competition (P2) 2024.09 - 2024.12

Design proposal documentation

Seoul Fast-Track Integrated Planning — Site Survey & Pre-Design 2022.11 - 2023.01

Site analysis & concept design (Gyeongnam · Woosung 3rd · Hyundai 1st reconstruction area)

Seonsa Hyundai Apartment Remodeling 2022.04 - 2024.05

Building condition survey, demolition/extension plans, automated site plan generation from existing drawings

Bongmyeong Jugong Complex 1 Reconstruction 2022.01 - 2024.05

As-built documentation

Publications

Performance Comparison of Supervised and Self-Supervised Learning Graph Neural Networks for BIM Element Classification 2026

Jong Gwang Kim, Hyeoncheol Kim — Master's Thesis, Korea University

A GNN-based Urban Context Feedback Framework for Early-Stage Architectural Design 2025

Jong Gwang Kim, Hyeoncheol Kim — Summer Conference of the Society for Computational Design and Engineering

Awards

Art Cathedral International Architecture Competition — Finalist 2023

Young Architects Competitions (YAC), Italy | Entry: SLoop

Skills

Design	AutoCAD · Rhino · Revit · SketchUp
Visualization	Photoshop · Illustrator · PowerPoint
Research	Python · GNN Frameworks · BIM Data Processing
Languages	Korean (Native) · English