

# Ziqiang Xu

Kyungpook National University

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github



website

## Research Interests

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- Artificial Intelligence
- Deep learning for Computer Vision & Object Detection and Recognition
- NLP & Computer Security (Kali Linux) *\*Extracurricular Interests*

## Education

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### Kyungpook National University

Mar. 2024 – Present

*Graduate School, M.S.*

*Robot and Smart System Engineering & AI Safety Convergence*

*Daegu, South Korea*

GPA: 4.02/4.3

Supervisors: *Bubryur Kim*

### North University of China

Sep. 2019 – Jun. 2023

*College of Information and Business, B.S.*

*Computer Science and Engineering*

*Jinzhong, China*

GPA: 3.35/4.0

Thesis Supervisors: *Yingliang Zhao*

## Academic Contributions

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1. MultiScale-GreenViT: A Vision Transformer Framework with Hybrid Loss Function for High-Precision Urban Green Space Segmentation and Quantification  
*Under Review (Engineering Applications of Artificial Intelligence)*
2. Deep Convolutional Stacked Model for Material Industry Applications: Automated Precise Porosity Assessment Based on CT Imaging  
*Accepted for presentation at C3 Symposium 2025*
3. Crack Classification and Analysis of Concrete Structures based on Neural Network and Clustering  
*Accepted for presentation at ICROS 2024*
4. Application of Deep Learning Model Based on ResNet-50 Architecture in Semantic Segmentation of Satellite Images  
*Accepted for presentation at KICEM 2024*

## Experience

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### Research Assistant

Mar. 2025 – Aug. 2025

Kyungpook National University, Daegu, South Korea

### Research Intern

Nov. 2023 – Mar. 2024

*Intelligent Construction Automation Center, Daegu, South Korea*

Clustering-K-means; Edge detection; Neural Network(ResNet50)

## Undergraduate Intern

Jun. 2021 – Jun. 2023

Artificial Intelligence Lab, Jinzhong, China

Development of Laboratory Management System Based on WeChat Mini Programs

## Honors & Awards

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- 2024–2026 KINGS Scholarship, Kyungpook National University
- Mar. 2025 Research Assistantship, Kyungpook National University
- Sep. 2024 Excellence Award, Startup Idea Competition in Integrated Safety Engineering, Graduate School of Convergence Technology in Land and Transport Safety
- Jan. 2024 Merit-based Scholarship, School of Korean Language Education, Kyungpook National University
- 2021-2022 Third Prize, Lanqiao Cup National Software and IT Talent Competition(Python Group), Ministry of Industry and Information Technology of China

## Technical Skills

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**Programming Languages:** Python, HTML, CSS

**Developer Tools:** PyCharm, Visual Studio Code, Cursor

**Frameworks / Libraries:** PyTorch, Numpy(Pandas), OpenCV(cv2), TensorFlow, Git, LaTeX, Kali Linux

## Language Proficiency

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- **Chinese:** Native
- **Korean:** Conversational (TOPIK Level 4, Oct. 2023)
- **English:** Conversational (CET-6)