

Ziqiang Xu

Ulsan National Institute of Science and Technology(UNIST)

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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

Kyungpook National University <i>Graduate School, M.S.</i> <i>Robot and Smart System Engineering & AI Safety Convergence</i> GPA: 4.02/4.3 Supervisors: <i>Bubryur Kim</i>	Mar. 2024 – Mar. 2026
	<i>Daegu, South Korea</i>
North University of China <i>College of Information and Business, B.S.</i> <i>Computer Science and Engineering</i> GPA: 3.35/4.0 Thesis Supervisors: <i>Yingliang Zhao</i>	Sep. 2019 – Jun. 2023
	<i>Jinzhong, China</i>

Academic Contributions

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1. GreenViT: A Vision Transformer with Single-Path Progressive Upsampling for Urban Green-Space Segmentation and Auditable Area Estimation
Submitted to a journal(Under Review 2026)
 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. Concrete Structure Crack Classification and Analysis Using Neural Network and Clustering
Accepted by ICRROS(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

Research Intern UNIST, Ulsan, South Korea	Dec. 2025 – Present
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Research Assistant Grade 3 Kyungpook National University, Daegu, South Korea	Sep. 2025 – Feb. 2026
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BK21 Research Assistant	Mar. 2025 – Aug. 2025
Kyungpook National University, Daegu, South Korea	
Research Intern	Nov. 2023 – Mar. 2024
<i>Intelligent Construction Automation Center</i> , 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

- 2024–2026 KINGS Scholarship, Kyungpook National University
- Sep. 2025 Research Assistantship Grade 3, Kyungpook National University
- Mar. 2025 BK21 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

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

- **Chinese:** Native
- **Korean:** Fluent (TOPIK Level 5)
- **English:** Basic proficiency (CET-6)