Youngmin **Kim**

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Research Interest

- *Computer Vision, Story Visualization, Image Captioning, Text-to-Image Generation, Robust Detection*

Education

Incheon National University   *Incheon, Korea*
BS Undergraduate Degree   *2016.03 - 2023.02*
- Major : Economics and Computer Science (Double Major)
- Magna Cum Laude (Top 5.9%)

Publications

International Journal

Preprocessing for Keypoint based Sign Language Translation without Glosses   *Sensors 2023*
Youngmin Kim and Hyeongboo Baek.

International Conference

A 2-Stage Model for Vehicle Class and Orientation Detection with Photo-Realistic Image Generation   *IEEE BigData 2022*
Youngmin Kim*, Donghwa Kang* and Hyeongboo Baek.

Domestic Journal

A Study of Tram-Pedestrian Collision Prediction Method Using YOLOv5 and Motion Vector   *KIPS 2021*
Youngmin Kim, Hyeonuk Ahn, Heegyun Jeon, Jinpyung Kim, Gyujin Jang and Hyeonchyeol Hwang.

Optical Flow Estimation Techniques and Recent Research Trends Survey   *KIPS Special Session*
Youngmin Kim, Hyeonuk Ahn and Jinpyung Kim.

Domestic Conference

Pedestrian Accident Prevention Model Using Deep Learning and Optical Flow   *KCC 2021, Best paper*
Youngmin Kim, Gyujin Jang, Hyunjai Bae, YoungNam Kim and Jinpyung Kim.

Survivor Detection Model using Drones and Deep Learning   *KCC 2021*
Hyunjai Bae, Gyujin Jang, **Youngmin Kim**, YoungNam Kim and Jinpyung Kim.

Deep Learning based Multiple Damage Type Detection System for Bridge Structures   *KCC 2021*
YoungNam Kim, Hyunjai Bae, **Youngmin Kim**, Gyujin Jang and Jinpyung Kim.

Stereo Image and Skeleton Information based Inter-Distance Estimation for Social Distancing   *KCC 2021*
Gyujin Jang, Hyunjai Bae, **Youngmin Kim**, YoungNam Kim and Jinpyung Kim.

Thesis

A Study of Exchange Rate Behavior using Machine Learning   *B.S Thesis*
Youngmin Kim and Sangyeon Hwang.

Professional Experience

2023-Present	**Undergraduate Research Assistant**, MIR Lab., Yonsei University
2021-2023	**Undergraduate Research Assistant**, RAISE Lab., Incheon National University
2020-2021	**Research Assistant**, CVAI Lab., AICT

Awards, & Scholarship

2021	**1st prize**, AI-Hub Idea Challenge Competition	*NIA*
	1st prize, KCC 2021 Undergraduate Paper Competition	*KIISE*
	2nd prize, KED 2021 Industrial Innovation Big Data Platform Competition	*KED*
	Scholarship for Academic Excellence, 1st semester	*INU*
	Scholarship for Meritorious Service,	*INU*
2020	**Scholarship for Academic Excellence**, 1st semester	*INU*

Projects

NATIONAL OR ENTERPRISE

2021. **BlackStone Belle-Forest**, *Smart Eco Service - Object Counting*.

2021. **NIA**, *Building AI training data for search and rescue using drones*.

2020. **KAIA**, *Development of high-performance and highly durable tires for light rail systems and a safety-enhancing health monitoring system*.

2020. **KRRI**, *Integrating algorithms to enable self-driving trams to operate in bi-directions*.

TOY-PROJECT

2021. **Incheon National University**, *Text-to-Image App Project (Artistic Sentence)*.
Position : Leader

2021. **BOAZ**, *Korean Sign Language Translation*.
Position : Leader

Extracurricular Activities

2021-2022	**BOAZ**, 16th member of the Big Data Alliance Club, Big Data Analysis Part	*Seoul*
2020	**Public Big Data Youth Internship**, 2nd member, Government-funded program	*Seoul*

Patents

Apparatus and Method for Analyzing data, Apparatus, and Method for Predicting Abnormality, Computer Program
10-2020-0186453

Electronic Apparatus and Method for Searching Distress, Unnamed Aerial Vehicle, Computer Science
10-2021-0089111

Method and Apparatus for Avoiding Collision between Vehicle and Object, Computer Science
10-2020-0186453

Military Service

Korean Army, Ground Operations Command *2016.07 - 2019.03*
ARMY SERGEANT, HONORABLE DISCHARGE