Jongha Kim

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https://github.com/jonghakim35

EDUCATION	**Korea University**	Seoul, Republic of Korea
	M.S. & Ph.D. Integrated Student in Computer Science and Engineering	Sep 2022 - Current
	Advised by Professor Hyunwoo J. Kim at MLV Lab, Korea University	

Korea University — Seoul, Republic of Korea
B.S. in Computer Science and Engineering — Mar 2018 - Aug 2022
B.S. in Statistics (Double Major)
GPA : 4.22 / 4.5 (Major : 4.25 / 4.5)

RESEARCH INTERESTS

Computer Vision, Scene Understanding, Multi-Modal Understanding, Foundation Models, Vision Languge Models, Large Language Models

PUBLICATIONS

[1] **Groupwise Query Specialization and Quality-Aware Multi-Assignment for Transformer-based Visual Relationship Detection**
Jongha Kim*, Jihwan Park*, Jinyoung Park*, Jinyoung Kim, Sehyung Kim, Hyunwoo J. Kim.
IEEE/CVF Conference on Computer Vision and Pattern Recognition *(CVPR)*, 2024. [paper]

[2] **Concept Bottleneck with Visual Concept Filtering for Explainable Medical Image Classification**
Injae Kim*, Jongha Kim*, Joonmyung Choi, Hyunwoo J. Kim.
MedAGI Workshop at International Conference on Medical Image Computing and Computer-Assisted Intervention *(MedAGI@MICCAI)*, 2023 (**Oral Presentation**). [paper]

[3] **Object Detection in Aerial Images with Uncertainty-Aware Graph Network**
Jongha Kim, Jinheon Baek, Sung Ju Hwang.
VOLI Workshop at European Conference on Computer Vision *(VOLI@ECCV)*, 2022. [paper]

(* denotes equal contribution)

EXPERIENCES

MLAI Lab — Seoul, Republic of Korea
- Undergraduate Research Intern at MLAI Lab, KAIST — Jan 2021 - Jul 2022
- Advised by Professor Sung Ju Hwang, KAIST

Upstage AI — Seongnam, Republic of Korea
- Teaching Assistant & Mentor of BoostCamp AI Tech 1-3rd course — Dec 2020 - Jun 2022
- Developed course materials, assignments and handled questions about lectures and assignments.
- Collaborated with Professor Tae Hyun Oh, POSTECH

VoyagerX — Seoul, Republic of Korea
- Developer Intern — Jul 2020 - Jan 2021
- Developed, enhanced, and deployed deep learning models for scanning books and documents used in mobile scanner application vFlat.

SW Maestro — Seoul, Republic of Korea
- 10'th trainee at SW Maestro Program — May 2019 - Nov 2019
- Developed and deployed a backend server and a deep learning model for a smartphone application DalDang, measuring sugar content of an apple.

PATENTS

Information providing method and system for sharing fruit information including sugar content information measured through image vision processing.

Sanghoon Lee, Hyemin Song, Jongha Kim, Hyun Kim.
Korea Patent No.10-2020-0153010.

Method for measuring sugar content of apple using image.
Sanghoon Lee, Hyemin Song, Jongha Kim.
Korea Patent No.10-2242155, registered on Apr 14, 2021

HONORS &
AWARDS

Graduate School Outstanding Freshman Scholarship   Sep 2022
Korea University

Dean's List   Spring 2019
Korea University

Semester High Honors   Fall 2018/2019/2021, Spring 2019/2020/2021
Korea University

2020 Agrifood Public Big Data Startup Competition   Aug 2020
Rural Development Administration

National Scholarship for Science and Engineering   Spring 2018 - Spring 2022
Korea Student Aid Foundation

ACADEMIC
SERVICES

Reviewer of **CVPR** (IEEE/CVF Conference on Computer Vision and Pattern Recognition)   2024

TALKS

Korea University & LG AI Workshop   Seoul, Republic of Korea
Korea University   Feb 2023

Defining and solving problems in deep learning projects   Virtual
BoostCamp AI Tech 2nd course   Nov 2021

SKILLS

Language
- Korean (*native*)
- English (*fluent*), TEPS : 525/600 (L 192/240, V 45/60, G 48/60, R 240/240)