

Jongha Kim

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<https://jonghakim35.github.io/>

EDUCATION	Korea University M.S. & Ph.D. Integrated Student in Computer Science and Engineering Advised by Professor Hyunwoo J. Kim at MLV Lab, KAIST	Seoul, Republic of Korea Sep 2022 - Current
	Korea University B.S. in Computer Science and Engineering B.S. in Statistics (Double Major) GPA : 4.22 / 4.5 (Major : 4.25 / 4.5)	Seoul, Republic of Korea Mar 2018 - Aug 2022
RESEARCH INTERESTS	My goal is to develop personalized and reliable multimodal AI agents. My research focuses on personalizing Multimodal Large Language Models, exploring post-training methods (<i>e.g.</i> , DPO), systems (<i>e.g.</i> , RAG), and ways to leverage structured representations to complement these models to achieve the goal.	
PUBLICATIONS	<ul style="list-style-type: none">[1] VidChain: Chain-of-Tasks with Metric-based Direct Preference Optimization for Dense Video Captioning Ji Soo Lee*, Jongha Kim*, Jeehye Na, Jinyoung Park, Hyunwoo J. Kim AAAI Conference on Artificial Intelligence (AAAI), 2025. [paper][2] 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][3] 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][4] 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][5] Relevance-aware Multi-context Contrastive Decoding for Retrieval-augmented Visual Question Answering Jongha Kim, Byungoh Ko, Jeehye Na, Jinsung Yoon, Hyunwoo J. Kim In collaboration with Google Cloud AI Under Review[6] Improved Query Specialization for Transformer-based Visual Relationship Detection Jongha Kim, Jihwan Park, Jinyoung Park, Jinyoung Kim, Sehyung Kim, Hyunwoo J. Kim Under Review[7] SuperClip Pyramid with Positional Parameterization for Video Temporal Grounding Sanghyeok Lee, Juyeon Ko, Joonmyung Choi, Jongha Kim, Hyunwoo J. Kim In collaboration with KT Gen AI Lab Under Review	

[8] **TabFlash: Efficient Table Understanding with Progressive Question Conditioning and Token Focusing**

Jongha Kim, Minseong Bae, Sanghyeok Lee, Jinsung Yoon, Hyunwoo J. Kim

In collaboration with Google Cloud AI

Under Review

(* denotes equal contribution)

WORK EXPERIENCES	MLV Lab	Seoul, Republic of Korea
	<ul style="list-style-type: none">• M.S. & Ph.D. Integrated Student at MLV Lab, Korea University• Advised by Professor Hyunwoo J. Kim, Korea University	Sep 2022 - Current
	MLAI Lab	Seoul, Republic of Korea
	<ul style="list-style-type: none">• Undergraduate Research Intern at MLAI Lab, KAIST• Advised by Professor Sung Ju Hwang, KAIST	Jan 2021 - Jul 2022
	Upstage AI	Seongnam, Republic of Korea
PATENTS	<ul style="list-style-type: none">• Teaching Assistant & Mentor of BoostCamp AI Tech 1-3rd course• Developed course materials, and assignments and handled questions about lectures and assignments.• Collaborated with Professor Tae Hyun Oh, POSTECH	Dec 2020 - Jun 2022
	VoyagerX	Seoul, Republic of Korea
	<ul style="list-style-type: none">• Developer Intern• Developed, enhanced, and deployed deep learning models for scanning books and documents in the mobile scanner application vFlat.• TensorFlow, TensorFlow Lite	Jul 2020 - Jan 2021
	SW Maestro	Seoul, Republic of Korea
	<ul style="list-style-type: none">• 10'th trainee at SW Maestro Program• Developed and deployed a backend server and a deep learning model for a smartphone application DalDang, measuring the sugar content of an apple.• TensorFlow, Node.js, AWS	May 2019 - Nov 2019
HONORS & AWARDS	Information providing method and system for sharing fruit information including sugar content information measured through image vision processing.	
	Sanghoon Lee, Hyemin Song, <u>Jongha Kim</u> , Hyun Kim.	
	Korea Patent No.10-2020-0153010.	
	Method for measuring sugar content of apple using image.	
	Sanghoon Lee, Hyemin Song, <u>Jongha Kim</u> .	
	Travel Grant for CVPR 2024	Jun 2024
	CVPR 2024	
	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	

ACADEMIC SERVICES	Reviewer of NeurIPS (Conference on Neural Information Processing System)	2024,2025
	Reviewer of CVPR (IEEE/CVF Conference on Computer Vision and Pattern Recognition)	2024,2025
	Reviewer of ICLR (International Conference on Learning Representations)	2025
	Reviewer of AAAI (AAAI Conference on Artificial Intelligence)	2025,2026
	Reviewer of AISTATS (International Conference on Artificial Intelligence and Statistics)	2025
	Reviewer of ICML (International Conference on Machine Learning)	2025
	Program Committee of MedAGI@MICCAI (MedAGI Workshop at International Conference on Medical Image Computing and Computer-Assisted Intervention)	2024,2025
TALKS	Teaching Assistant	Seoul, Republic of Korea
	Special Topics in Artificial Intelligence (AAA740), Korea University	Fall 2024
	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, Upstage AI	Nov 2021
SKILLS	Language	
	• Korean (<i>native</i>)	
	• English (<i>fluent</i>), TEPS : 544/600 (<i>officially described as 'Native Level of English Proficiency'</i>)	
	Programming Skills	
	• Python, PyTorch, Git, Bash (Most proficient)	
	• TensorFlow, SQL, Node.js, React.js, Vue.js (Experienced)	
	• Website built: MedAGI Workshop 2024 , Personal Blog	

Last Updated: Mar 18, 2025