

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 GPA : 4.15 / 4.5	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	<p>[1] Relevance-aware Multi-context Contrastive Decoding for Retrieval-augmented Visual Question Answering <u>Jongha Kim</u>, Byungoh Ko, Jeehye Na, Jinsung Yoon, Hyunwoo J. Kim In collaboration with Google Cloud AI IEEE/CVF Conference on Winter Conference on Applications of Computer Vision (WACV), 2026 [paper].</p> <p>[2] TabFlash: Efficient Table Understanding with Progressive Question Conditioning and Token Focusing <u>Jongha Kim</u>, Minseong Bae, Sanghyeok Lee, Jinsung Yoon, Hyunwoo J. Kim In collaboration with Google Cloud AI AAAI Conference on Artificial Intelligence (AAAI), 2026 [paper].</p> <p>[3] Improved Query Specialization for Transformer-based Visual Relationship Detection <u>Jongha Kim</u>, Jihwan Park, Jinyoung Park, Jinyoung Kim, Sehyung Kim, Hyunwoo J. Kim Information Sciences, 2026 (IF = 6.8). [paper]</p> <p>[4] VidChain: Chain-of-Tasks with Metric-based Direct Preference Optimization for Dense Video Captioning Ji Soo Lee*, <u>Jongha Kim*</u>, Jeehye Na, Jinyoung Park, Hyunwoo J. Kim AAAI Conference on Artificial Intelligence (AAAI), 2025. [paper]</p> <p>[5] Groupwise Query Specialization and Quality-Aware Multi-Assignment for Transformer-based Visual Relationship Detection <u>Jongha Kim*</u>, Jihwan Park*, Jinyoung Park*, Jinyoung Kim, Sehyung Kim, Hyunwoo J. Kim IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024. [paper]</p> <p>[6] Concept Bottleneck with Visual Concept Filtering for Explainable Medical Image Classification Injae Kim*, <u>Jongha Kim*</u>, Joonmyung Choi, Hyunwoo J. Kim MedAGI Workshop at International Conference on Medical Image Computing and Computer-Assisted Intervention (MedAGI@MICCAI), 2023 (Oral Presentation). [paper]</p> <p>[7] Object Detection in Aerial Images with Uncertainty-Aware Graph Network <u>Jongha Kim</u>, Jinheon Baek, Sung Ju Hwang VOLI Workshop at European Conference on Computer Vision (VOLI@ECCV), 2022. [paper]</p>	

- [8] **SuperClip Pyramid for Video Temporal Grounding**
 Sanghyeok Lee, Juyeon Ko, Joonmyung Choi, Jongha Kim, Dohwan Ko, Ji Soo Lee,
 Hyunwoo J. Kim
 In collaboration with **KT** Gen AI Lab
 Under Review
- [9] **DocPrune: Efficient Document Question Answering via Background, Question, and Comprehension-aware Token Pruning**
 Joonmyung Choi, Sanghyeok Lee, Jongha Kim, Sehyung Kim, Dohwan Ko, Jihyung Kil,
 Hyunwoo J. Kim
 In collaboration with **Adobe** Research
 Under Review
- [10] **Context-Calibrated Preference Optimization for Mitigating Object Hallucination in Multimodal Large Language Models**
 Byungoh Ko, Jinyoung Park, Jongha Kim, Jeehye Na, Jaewon Cho, Hyunwoo J. Kim
 Under Review
(denotes equal contribution)*

WORK EXPERIENCES	MLV Lab	Seoul, Republic of Korea
	• M.S. & Ph.D. Integrated Student at MLV Lab, Korea University	Sep 2022 - Current
	• Advised by Professor Hyunwoo J. Kim, Korea University	
	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, and assignments and handled questions about lectures and assignments.	
VoyagerX	• Collaborated with Professor Tae Hyun Oh, POSTECH	
		Seoul, Republic of Korea
	• TensorFlow, TensorFlow Lite	Jul 2020 - Jan 2021
SW Maestro		Seoul, Republic of Korea
	• Developer Intern	
	• Developed, enhanced, and deployed deep learning models for scanning books and documents in the mobile scanner application vFlat.	May 2019 - Nov 2019
PATENTS	Method and apparatus for dense video captioning based on chained task learning and metric loss for fine-grained understanding of video language model	
	Hyunwoo Kim, Ji Soo Lee, <u>Jongha Kim</u> , Jeehye Na, Jinyoung Park	
	Korea Patent No.10-2025-0164550.	
	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>	
	Korea Patent No.10-2242155, registered on Apr 14, 2021	

HONORS & AWARDS	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	
	National Scholarship for Science and Engineering	Spring 2018 - Spring 2022
	Korea Student Aid Foundation	
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)	2024-2026
	Reviewer of ICLR (International Conference on Learning Representations)	2025-2026
	Reviewer of AAAI (AAAI Conference on Artificial Intelligence)	2025-2026
	Reviewer of AISTATS (International Conference on Artificial Intelligence and Statistics)	2025-2026
	Reviewer of ICML (International Conference on Machine Learning)	2025
	Reviewer of WACV (IEEE/CVF Winter Conference on Applications of Computer Vision)	2026
	Program Committee of MedAGI@MICCAI (MedAGI Workshop at International Conference on 2024,2025 Medical Image Computing and Computer-Assisted Intervention)	
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	
	<ul style="list-style-type: none"> Korean (<i>native</i>) English (<i>fluent</i>), TEPS : 544/600 (<i>officially described as “Native Level of English Proficiency”</i>) 	
	Programming Skills	
	<ul style="list-style-type: none"> Python, PyTorch, Git, Bash (Most proficient) TensorFlow, SQL, Node.js, React.js, Vue.js (Experienced) Website built: MedAGI Workshop 2024, Personal Blog 	

Last Updated: Nov 19, 2025