

# Jongha Kim

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

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EDUCATION	<p><b>Korea University</b> M.S. &amp; Ph.D. Integrated Student in Computer Science and Engineering Advised by Professor Hyunwoo J. Kim at MLV Lab, KAIST GPA : 4.15 / 4.5</p> <p><b>Korea University</b> B.S. in Computer Science and Engineering B.S. in Statistics (Double Major) GPA : 4.22 / 4.5 (Major : 4.25 / 4.5)</p>	<p>Seoul, Republic of Korea Sep 2022 - Current</p> <p>Seoul, Republic of Korea Mar 2018 - Aug 2022</p>
RESEARCH INTERESTS	<p>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.</p>	
PUBLICATIONS	<p>[1] <b>Relevance-aware Multi-context Contrastive Decoding for Retrieval-augmented Visual Question Answering</b> Jongha Kim, Byungoh Ko, Jeehye Na, Jinsung Yoon, Hyunwoo J. Kim In collaboration with <a href="#">Google</a> Cloud AI IEEE/CVF Conference on Winter Conference on Applications of Computer Vision (WACV), 2026 [paper].</p> <p>[2] <b>TabFlash: Efficient Table Understanding with Progressive Question Conditioning and Token Focusing</b> Jongha Kim, Minseong Bae, Sanghyeok Lee, Jinsung Yoon, Hyunwoo J. Kim In collaboration with <a href="#">Google</a> Cloud AI AAAI Conference on Artificial Intelligence (AAAI), 2026 [paper].</p> <p>[3] <b>Improved Query Specialization for Transformer-based Visual Relationship Detection</b> Jongha Kim, Jihwan Park, Jinyoung Park, Jinyoung Kim, Sehyung Kim, Hyunwoo J. Kim Information Sciences, 2026 (IF = 6.8). [paper]</p> <p>[4] <b>VidChain: Chain-of-Tasks with Metric-based Direct Preference Optimization for Dense Video Captioning</b> Ji Soo Lee*, Jongha Kim*, Jeehye Na, Jinyoung Park, Hyunwoo J. Kim AAAI Conference on Artificial Intelligence (AAAI), 2025. [paper]</p> <p>[5] <b>Groupwise Query Specialization and Quality-Aware Multi-Assignment for Transformer-based Visual Relationship Detection</b> 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]</p> <p>[6] <b>Concept Bottleneck with Visual Concept Filtering for Explainable Medical Image Classification</b> 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]</p> <p>[7] <b>Object Detection in Aerial Images with Uncertainty-Aware Graph Network</b> Jongha Kim, 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	<b>MLV Lab</b>	Seoul, Republic of Korea Sep 2022 - Current
	<ul style="list-style-type: none"> <li>• M.S. &amp; Ph.D. Integrated Student at MLV Lab, Korea University</li> <li>• Advised by Professor Hyunwoo J. Kim, Korea University</li> </ul>	
	<b>MLAI Lab</b>	Seoul, Republic of Korea Jan 2021 - Jul 2022
	<ul style="list-style-type: none"> <li>• Undergraduate Research Intern at MLAI Lab, KAIST</li> <li>• Advised by Professor Sung Ju Hwang, KAIST</li> </ul>	
	<b>Upstage AI</b>	Seongnam, Republic of Korea Dec 2020 - Jun 2022
	<ul style="list-style-type: none"> <li>• Teaching Assistant &amp; Mentor of BoostCamp AI Tech 1-3rd course</li> <li>• Developed course materials, and assignments and handled questions about lectures and assignments.</li> <li>• Collaborated with Professor Tae Hyun Oh, POSTECH</li> </ul>	
	<b>VoyagerX</b>	Seoul, Republic of Korea Jul 2020 - Jan 2021
	<ul style="list-style-type: none"> <li>• Developer Intern</li> <li>• Developed, enhanced, and deployed deep learning models for scanning books and documents in the mobile scanner application vFlat.</li> <li>• TensorFlow, TensorFlow Lite</li> </ul>	
	<b>SW Maestro</b>	Seoul, Republic of Korea May 2019 - Nov 2019
	<ul style="list-style-type: none"> <li>• 10'th trainee at SW Maestro Program</li> <li>• Developed and deployed a backend server and a deep learning model for a smartphone application DalDang, measuring the sugar content of an apple.</li> <li>• TensorFlow, Node.js, AWS</li> </ul>	
PATENTS	<b>Method and apparatus for dense video captioning based on chained task learning and metric loss for fine-grained understanding of video language model</b>	
	Hyunwoo Kim, Ji Soo Lee, <u>Jongha Kim</u> , Jeehye Na, Jinyoung Park Korea Patent No.10-2025-0164550.	
	<b>Information providing method and system for sharing fruit information including sugar content information measured through image vision processing</b>	
	Sanghoon Lee, Hyemin Song, <u>Jongha Kim</u> , Hyun Kim Korea Patent No.10-2020-0153010.	
	<b>Method for measuring sugar content of apple using image.</b>	
	Sanghoon Lee, Hyemin Song, <u>Jongha Kim</u> Korea Patent No.10-2242155, registered on Apr 14, 2021	

HONORS & AWARDS	<b>Travel Grant for CVPR 2024</b> CVPR 2024	Jun 2024
	<b>Graduate School Outstanding Freshman Scholarship</b> Korea University	Sep 2022
	<b>Dean's List</b> Korea University	Spring 2019
	<b>Semester High Honors</b> Korea University	Fall 2018/2019/2021, Spring 2019/2020/2021
	<b>2020 Agrifood Public Big Data Startup Competition</b> Rural Development Administration	Aug 2020
	<b>National Scholarship for Science and Engineering</b> Korea Student Aid Foundation	Spring 2018 - Spring 2022
ACADEMIC SERVICES	Reviewer of <b>NeurIPS</b> (Conference on Neural Information Processing System)	2024-2025
	Reviewer of <b>CVPR</b> (IEEE/CVF Conference on Computer Vision and Pattern Recognition)	2024-2026
	Reviewer of <b>ICLR</b> (International Conference on Learning Representations)	2025-2026
	Reviewer of <b>AAAI</b> (AAAI Conference on Artificial Intelligence)	2025-2026
	Reviewer of <b>AISTATS</b> (International Conference on Artificial Intelligence and Statistics)	2025-2026
	Reviewer of <b>ICML</b> (International Conference on Machine Learning)	2025
	Reviewer of <b>WACV</b> (IEEE/CVF Winter Conference on Applications of Computer Vision)	2026
	Program Committee of <b>MedAGI@MICCAI</b> (MedAGI Workshop at International Conference on Medical Image Computing and Computer-Assisted Intervention)	2024, 2025
TALKS	<b>Teaching Assistant</b> Special Topics in Artificial Intelligence (AAA740), Korea University	Seoul, Republic of Korea Fall 2024
	<b>Korea University &amp; LG AI Workshop</b> Korea University	Seoul, Republic of Korea Feb 2023
	<b>Defining and solving problems in deep learning projects</b> BoostCamp AI Tech 2nd course, Upstage AI	Virtual Nov 2021
SKILLS	<b>Language</b>	
	<ul style="list-style-type: none"> <li>Korean (<i>native</i>)</li> <li>English (<i>fluent</i>), TEPS : 544/600 (<i>officially described as "Native Level of English Proficiency"</i>)</li> </ul>	
	<b>Programming Skills</b>	
	<ul style="list-style-type: none"> <li>Python, PyTorch, Git, Bash (Most proficient)</li> <li>TensorFlow, SQL, Node.js, React.js, Vue.js (Experienced)</li> <li>Website built: <a href="#">MedAGI Workshop 2024</a>, <a href="#">Personal Blog</a></li> </ul>	

*Last Updated: Nov 19, 2025*