

Joochan Kim

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EDUCATION

Mar. 2022 ~ Aug. 2024	Seoul National University Department of Computer Science and Engineering	Seoul, Korea
	Thesis: Bias Analysis in Instructional Video Learning <i>Advisor: Byoung-Tak Zhang</i> <i>M.S. in Computer Science and Engineering</i> GPA: 3.98 / 4.5	
Mar. 2016 ~ Aug. 2021	Yonsei University Department of Computer Science	Seoul, Korea
	<i>Computer Science</i> GPA: 3.4 / 4.5	

WORK EXPERIENCES

- Research Officer at Singapore Institute of Manufacturing Technology (SIMTech), Agency for Science, Technology and Research (A*STAR), Singapore (Mar. 2024 ~ Aug. 2024) / Utilize multimodal LLM into Robotics Task, Synthesis Dataset for Finetune

PUBLICATIONS (INTERNATIONAL)

1. SeongJun Jeong, Gi-Cheon Kang, **Joochan Kim**, Byoung-Tak Zhang, "Zero-Shot Vision-and-Language Navigation with Collision Mitigation in Continuous Environment", *EMBODIED AI WORKSHOP - CVPR 2024*, (2024)
2. Seongjun Jeong, Gi-Cheon Kang, Seongho Choi, **Joochan Kim**, Byoung-Tak Zhang, "Continual Vision-and-Language Navigation", *ArXiv Preprint*, (2024)
3. Minjoon Jung, Youwon Jang, Seongho Choi, **Joochan Kim**, Jin-Hwa Kim, Byoung-Tak Zhang, "Background-aware Moment Detection for Video Moment Retrieval", *WACV 2025*, (2023)
4. Minjoon Jung, SeongHo Choi, **Joochan Kim**, Jin-Hwa Kim, Byoung-Tak Zhang, "Modal-specific Pseudo Query Generation for Video Corpus Moment Retrieval", *PROCEEDINGS OF THE 2022 CONFERENCE ON EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING*, (2022)

PUBLICATIONS (DOMESTIC)

1. **Joochan Kim**, Minjoon Jung, Byoung-Tak Zhang, "Exploring Bias in Action Understanding Task for Comprehending Instructional Videos", Korea Software Congress 2023 - Poster

SKILLS AND TECHNIQUES

- Python
- Pytorch
- AWS

RESEARCH INTERESTS

- Multimodal learning
- Large Language Model
- Embodied AI
- Natural Language Processing
- Computer Vision

LANGUAGE CERTIFICATES

- TOEIC: 950 (RC 475 / LC 475)
- OPIc: IH
- OPIc WPT: IH

AWARDS AND HONORS

- [Excellence Award] AIM Innovation Track Online Student Performance Presentation Excellence Award, LINC+, College of Engineering, Yonsei University, Korea (Jan. 2021)
- [Grand Prize] Yonsei CS Graduation Work Exhibition, Department of Computer Science, College of Engineering, Yonsei University, Korea (Dec. 2020)
- [Excellence Award] Yonsei CS Graduation Work Exhibition, Department of Computer Science, College of Engineering, Yonsei University, Korea (Jun. 2020)

PROJECTS

- Automated Cryptocurrency Trading, Individual Project with Lab Colleagues, Korea / Researcher (May. 2022 ~ Dec. 2023)
- Question Generation for Question Answering, Department of Computer Science, Yonsei University, Korea / Researcher, Presenter (Aug. 2020 ~ Dec. 2020)
- Effective Ways to Select a Dataset from Large Corpus, Department of Computer Science, Yonsei University, Korea / Team leader, Researcher (Feb. 2020 ~ Jun. 2020)