

BYEONGHWI KIM

ERP 425B, 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, South Korea

byeonghwikim@yonsei.ac.kr ◊ [homepage](#)

RESEARCH INTEREST

Embodied AI, Robotics, Autonomous Agents, Multimodality

EMPLOYMENT

Research Intern, **Allen Institute for AI (AI2)**, Seattle, WA

Sept. 2021 - Mar. 2022

Mentor: *Dr. Roozbeh Mottaghi*

EDUCATION

Seoul National University

(Expected) from Sept. 2024

Ph.D. Student in Electrical and Computer Engineering (*Advisor: Jonghyun Choi*)

Yonsei University

Sept. 2022 - (expected) Aug. 2024

Doctoral Course Completed in Artificial Intelligence (*Advisor: Jonghyun Choi*)

CGPA: 3.97/4.3

Gwangju Institute of Science and Technology (GIST)

Mar. 2020 - Aug. 2022

M.S. in Artificial Intelligence (*Advisor: Jonghyun Choi*)

CGPA: 4.12/4.5

GIST President Fellowship

Kwangwoon University

Mar. 2013 - Feb. 2020

B.S. in Computer Engineering (*Advisor: Cheolsoo Park*)

CGPA(Major): 4.42(4.48)/4.5

Graduated with First-Class Honors (Rank: 1/74)

PUBLICATIONS

Byeonghwi Kim*, Minhyuk Seo*, Jonghyun Choi. [Online Continual Learning for Interactive Instruction Following Following Agents](#). In *ICLR*, 2024.

Byeonghwi Kim, Jinyeon Kim, Yuyeong Kim, Cheolhong Min, Jonghyun Choi. [Context-Aware Planning and Environment-Aware Memory for Instruction Following Embodied Agents](#). In *ICCV*, 2023.

Suvaansh Bhambri*, **Byeonghwi Kim***, Jonghyun Choi. [Multi-Level Compositional Reasoning for Interactive Instruction Following](#). In *AAAI* (Oral), 2023.

Kunal Pratap Singh*, Suvaansh Bhambri*, **Byeonghwi Kim***, Roozbeh Mottaghi, Jonghyun Choi. [Factorizing Perception and Policy for Interactive Instruction Following](#). In *ICCV*, 2021.

Byeonghwi Kim, Suvaansh Bhambri, Kunal Pratap Singh, Roozbeh Mottaghi, Jonghyun Choi. [Agent with the Big Picture: Perceiving Surroundings for Interactive Instruction Following](#). In *CVPRW*, 2021.

Byeonghwi Kim*, Yuli Sun Hariyani*, Young-Ho Cho, Cheolsoo Park. [Automated White Blood Cell Counting in Nailfold Capillary Using Deep Learning Segmentation and Video Stabilization](#). In *Sensors*, 2020.

HONORS AND AWARDS

1st Place in Generalist Language Grounding Agents Challenge (CVPRW'23)

Jun. 2023

ECLAIR: Event-Cognizant Language Interaction Robots

2nd Place in the ALFRED Challenge (CVPRW'21)

Jun. 2021

Agent with the Big Picture: Perceiving Surroundings for Interactive Instruction Following

2nd Place in the ALFRED Challenge (ECCVW'20)

Aug. 2020

Improving Mask Prediction for Long Horizon Instruction Following

ACADEMIC SERVICE

Reviewer: CVPR (2023-2024), ECCV (2024), ICLR (2024), ICML (2024), NeurIPS (2023-2024), AAAI (2024-2025), WACV (2023-2024), ICRA (2022), Ro-MAN (2024)