

BYEONGHWI KIM

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

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EDUCATION

Yonsei University Sept. 2022 - Present
Ph.D. Student, Department of Artificial Intelligence (*Advisor: Jonghyun Choi*) *CGPA: 3.97/4.3*

Gwangju Institute of Science and Technology (GIST) Mar. 2020 - Aug. 2022
M.S., Artificial Intelligence Graduate School (*Advisor: Jonghyun Choi*) *CGPA: 4.12/4.5*
GIST President Fellowship

Kwangwoon University Mar. 2013 - Feb. 2020
B.S., Department of Computer Engineering (*Advisor: Cheolsoo Park*) *CGPA(Major): 4.42(4.48)/4.5*
Graduated with First-Class Honors (Rank: 1/74)

RESEARCH INTEREST

Embodied AI, Robotics, Multimodality

EMPLOYMENT

Research Intern, **Allen Institute for AI (AI2)**, Seattle, WA Sept. 2021 - Mar. 2022
Mentor: *Dr. Roozbeh Mottaghi*

PUBLICATIONS

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

ACAMEMIC SERVICE

Reviewer: CVPR(23'-24'), ICLR(24'), NeurIPS(23'), AAAI(24'), WACV(23'-24'), ICRA(22')