# BYEONGHWI KIM

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

byeonghwikim@yonsei.ac.kr ⋄ homepage

## 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')