

# BYEONGHWI KIM

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

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## EDUCATION

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**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

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Embodied AI, Robotics, Multimodality

## EMPLOYMENT

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

## PUBLICATIONS

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**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

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**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

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