

# BYEONGHWI KIM

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## EDUCATION

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

**Gwangju Institute of Science and Technology** Mar. 2020 - Aug. 2022  
M.S., Artificial Intelligence Graduate School (*Advisor: Jonghyun Choi*)  
*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 Honours*

## RESEARCH INTEREST

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Embodied AI, Interactive Instruction Following, Visual/Vision-Language Navigation

## EMPLOYMENT

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Research Intern, **Allen Institute for AI (AI2)**, Seattle, WA Sept. 2021 - Mar. 2022

## PUBLICATIONS

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**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 *Embodied AI Workshop @ CVPR*, 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. *Sensors*, 20, 7101, 2020.

## AWARDS

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**1st Place in Generalist Language Grounding Agents Challenge** (CVPRW'23) Jun. 2021  
*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: ICRA'22, WACV'23, CVPR'23, NeurIPS'23, WACV'24