

Hyunseo Kim

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RESEARCH INTERESTS

Robotics / Computer Vision / Imitation Learning / Representation Learning

EDUCATION

Ph.D. Interdisciplinary Program in Neuroscience 2019 – Present
Advised by Byoung-Tak Zhang
Seoul National University

BSc Biological Science (Minor in Computer Science) 2015 - 2019
Seoul National University

SELECTED PUBLICATION

- EXOT: Exit-aware Object Tracker for Safe Robotic Manipulation of Moving Object**
[Hyunseo Kim](#), Hye Jung Yoon, Minji Kim, Dong-Sig Han, Byoung-Tak Zhang
International Conference on Robotics and Automation (ICRA), 2023.
- Robust Imitation via Mirror Descent Inverse Reinforcement Learning**
Dong-Sig Han, [Hyunseo Kim](#), Hyundo Lee, JeHwan Ryu, Byoung-Tak Zhang
Neural Information Processing Systems (NeurIPS), 2022.
- Message passing adaptive resonance theory for online active semi-supervised learning**
Taehyeong Kim, Injune Hwang, Hyundo Lee, [Hyunseo Kim](#), Won-Seok Choi, Joseph J Lim, Byoung-Tak Zhang
International Conference on Machine Learning (ICML), 2021.
- Label Propagation Adaptive Resonance Theory for Semi-supervised Continuous Learning**
Taehyeong Kim, Injune Hwang, Gi-Cheon Kang, Won-Seok Choi, [Hyunseo Kim](#), Byoung-Tak Zhang
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020.
- A neural circuit mechanism for mechanosensory feedback control of ingestion**
Dong-Yoon Kim*, Gyuryang Heo*, Minyoo Kim*, [Hyunseo Kim](#), Ju Ae Jin, Hyun-Kyung Kim, Sieun Jung, Myungmo An, Benjamin H Ahn, Jong Hwi Park, Han-Eol Park, Myungsun Lee, Jung Weon Lee, Gary J Schwartz, Sung-Yon Kim
Nature, 2020.

* : equal contribution

TEACHING EXPERIENCE

Artificial Neural Networks – Graduate Student Instructor Fall 2022
Computational Neuroscience – Graduate Student Instructor Fall 2022

ACADEMIC SERVICE

Reviewer, NeurIPS	2022
Reviewer, ICML & NeurIPS	2023

HONORS/ AWARDS

Robocup@Home 2022 (Team Tidyboy)

- Second Place in Domestic Standard Platform League (Team Tidyboy)
- First Place in Fastest Manipulation (Team Tidyboy)
- First Place in Robo-valet (Housekeeper highest score in Stage 1 tasks)
- First Place in Soul of the Party (Party-Host highest score in Stage 2 tasks)