

# Hyunseo Kim

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## RESEARCH INTERESTS

Robotics / Computer Vision / Imitation Learning / Representation Learning

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## EDUCATION

Ph.D. Interdisciplinary Program in Neuroscience Advised by Byoung-Tak Zhang <b>Seoul National University</b>	2019 – Present
BSc Biological Science (Minor in Computer Science) <b>Seoul National University</b>	2015 - 2019

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## SELECTED PUBLICATION

**1. 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.

**2. 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.

**3. 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.

**4. 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

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## TEACHING EXPERIENCE

<b>Artificial Neural Networks</b> – Graduate Student Instructor	Fall 2022
<b>Computational Neuroscience</b> – Graduate Student Instructor	Fall 2022

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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)