

# Isaac Han

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## Research Interests

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I'm interested in building an intelligent agent that can continuously learn and adapt to changing environments. My current and future research focus on reinforcement learning, continual learning, and streaming learning.

Previously, I explored wide range of topics such as 3D pose estimation from wearable sensors, StarCraft AI, VR haptic devices, and off-road autonomous driving.

## Education

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### Gwangju Institute of Science and Technology

2020 - present

M.S/Ph.D student in AI (GPA: 4.33/4.5).

- Advisor: [Kyung-Joong Kim](#).

### Bachelor's Degree Examination for Self-Education

2019

B.S in Computer Science (GPA: 3.7/4.3).

- Nationally accredited B.S. awarded by [NILE](#) (Ministry of Education, Korea).

## Publications

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### Conferences and Journals

#### FIRE: Frobenius-Isometry Reinitialization for Balancing the Stability–Plasticity Tradeoff

*ICLR'26*

- **Isaac Han**, Sangyeon Park, Seungwon Oh, Donghu Kim, Hojoon Lee, Kyung-Joong Kim
- [paper](#)

#### Activation by Interval-wise Dropout: A Simple Way to Prevent Neural Networks from Plasticity Loss

*ICML'25*

- Sangyeon Park, **Isaac Han**, Seungwon Oh, Kyung-Joong Kim
- [paper](#)

#### Deep ensemble learning of tactics to control the main force in a real-time strategy game

*Multimedia Tools and Applications (2024)*

- **Isaac Han**, Kyung-Joong Kim
- [paper](#)

#### Monte Carlo and Temporal Difference Methods in Reinforcement Learning [AI-eXplained]

*IEEE Computational Intelligence Magazine (2023)*

- **Isaac Han**, Seungwon Oh, Hoyoun Jung, Insik Chung, Kyung-Joong Kim
- [paper](#)

#### Seamless-walk: natural and comfortable virtual reality locomotion method with a high-resolution tactile sensor

*Virtual Reality (2023)*

- Yunho Choi, Dong-Hyeok Park, Sungha Lee, **Isaac Han**, Ecehan Akan, Hyeyon-Chang Jeon, Yiyue Luo, SeungJun Kim, Wojciech Matusik, Daniela Rus, Kyung-Joong Kim

- [paper](#)

- Isaac Han, Dong-Hyeok Park, Kyung-Joong Kim
- [paper / code](#) (60+ ★)

## Preprints and Workshops

**Shared Representation for 3D Pose Estimation, Action Classification, and Progress Prediction from Tactile Signals**

*Under review*

- Isaac Han, Seoyoung Lee, Sangyeon Park, Ecehan Akan, Yiyue Luo, Joseph DelPreto, Kyung-Joong Kim
- [paper / video](#)

**Recovering Plasticity of Neural Networks via Soft Weight Rescaling**

*arXiv*

- Seungwon Oh, Sangyeon Park, Isaac Han, Kyung-Joong Kim
- [paper](#)

**Smart Insole: Predicting 3D human pose from foot pressure**

*2nd NeurIPS Workshop on Touch Processing*

- Isaac Han, Seoyoung Lee, Sangyeon Park, Ecehan Akan, Yiyue Luo, Kyung-Joong Kim
- [paper](#)

## Academic Service

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<b>Reviewer</b>	The ACM conference on Human Factors in Computing Systems (CHI)	2026
<b>Reviewer</b>	IEEE International Conference on Robotics & Automation (ICRA)	2026
<b>Reviewer</b>	IEEE Conference on Games (CoG)	2025
<b>Reviewer</b>	IEEE Access	2023

## Technical Skills

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**Proficient:** Python, PyTorch, Tensorflow, Jax

**Experienced:** Docker, Github