# Seungyub Han

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## Education

**Seoul National University** 2016 - current
*Ph. D. Electical and Computer Engineering* *Seoul, Korea*
Leave of absence for working at Hodoo AI: 2019 - 2022

**Seoul National University** 2016
*B.S. Electical and Computer Engineering* *Seoul, Korea*
Leave of absence for military service: Feb. 2012 - Feb. 2014 (2 years)

## Research Interest

**Reinforcement Learning, Robot Learning, Continual Learning, Non-convex Optimization**

## Experience

**Hodoo AI** 2018 – 2022
*Research Engineer* *Seoul, Korea*

## Publications

[1] Jungeun Lee, **Seungyub Han**, and Jungwoo Lee. "D2NAS: Efficient Neural Architecture Search with Performance Improvement and Model Size Reduction for Diverse Tasks". IEEE Access (2024).

[2] Taehyun Cho, **Seungyub Han**, Heesoo Lee, Kyungjae Lee, and Jungwoo Lee. "Pitfall of Optimism: Distributional Reinforcement Learning by Randomizing Risk Criterion". **Advances in Neural Information Processing Systems (NeurIPS)**. 2023.

[3] Dohyeok Lee, **Seungyub Han**, Taehyun Cho, and Jungwoo Lee. "SPQR: Controlling Q-ensemble Independence with Spiked Random Model for Reinforcement Learning". **Advances in Neural Information Processing Systems (NeurIPS)**. 2023.

[4] **Seungyub Han**, Yeongmo Kim, Taehyun Cho, and Jungwoo Lee. "On the Convergence of Continual Learning with Adaptive Methods". **Proceedings of the Thirty-Ninth Conference on Uncertainty in Artificial Intelligence (UAI)**. 2023.

[5] **Seungyub Han**, Yeongmo Kim, Seokhyeon Ha, Jungwoo Lee, and Seunghong Choi. "Learning to Learn Unlearned Feature for Brain Tumor Segmentation". **Medical Imaging meets NeurIPS Workshop**. 2018.

[6] Hyeungill Lee, **Seungyub Han**, and Jungwoo Lee. "Generative adversarial trainer: Defense to adversarial perturbations with gan". arXiv preprint arXiv:1705.03387 (2017).

## Projects

**HAIMED** | *Continual Learning Framework for MR Brain Metastasis Diagnostics* 2021

- Research Engineer at Hodoo AI