

Anthony W. Jung

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EXPERIENCE

AI Researcher · Seoul NeuroFusion

Jun 2025 – Present

Q: What am I working on now? **A:** Inductive inference and multimodal brain-signal research.

Inductive Inference Brain Signal Research Multimodal AI

- Backtracer: working on inductive inference [link](#)
- Brain signal research: multimodal modeling and analysis for brain signals

ML Researcher · Seoul KC ML2

Oct 2020 – May 2025

Q: What did I learn there? **A:** To think through reinforcement learning as both optimization and representation learning.

RL Scientific ML Representation Learning

- Scientific ML and RL: co-first author on a published physics-informed RL paper; led RL theory, multi-GPU RLlib training, and environment implementation for nanophotonic inverse design [link](#)
- Compiler optimization: combined RL and GNN, contributed to the FAIR repository, and trained agents to select LLVM optimization passes [link](#)
- Assembly-level optimization: studied superoptimization with Transformers and RL, and adapted STOKE into a standalone RL environment [link](#)
- Blockchain analysis: graph-based anomaly detection at 160M nodes and 1.7B edges [link](#)
- Multi-agent RL: implemented multi-agent snake and ran MARL experiments [link1](#) [link2](#)

Data Scientist · Seoul Algorithm Labs

Aug 2018 – Oct 2020

Q: What changed there? **A:** I learned how models survive contact with production constraints while building recommender systems.

Recommender Systems MLOps

- Recommender Systems: designed and developed a used-car recommender system for one of the largest Korean bank groups' services [link](#)
- MLOps: built containerized model serving infrastructure reaching 200 transactions/sec for 2M users

Intern · Seoul iRobo

Jan 2018 – Aug 2018

Q: What did I first see there? **A:** Automated decision-making under real execution constraints.

Trading Systems

- Stock Trading Program: automated trading logic from rebalancing to live execution for fund managers' portfolios in an on-premise environment

EDUCATION

BSc Computer Science · Seoul Hanyang University

2014 – 2018

Q: Where did this start? **A:** Systems and graph infrastructure gave me my early intuition for computation.

Graph Engine

- Student Researcher: participated in developing a large-scale graph engine in C++, 2017–2018 [link](#)

AWARDS

Bronze medal, University Students Contest of Mathematics, Korean Mathematical Society, 2015