

Seokmin Ko

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EDUCATION

2026.3 Master's Degree at **KAIST** | Data Science

2017.3 - 2025.2 Bachelor's Degree at **Yonsei University** | Electrical Engineering and Mathematics (Double Major)

RESEARCH INTEREST

1. Analysis of convergence and convergence rate of existing reinforcement learning algorithms
2. Planning algorithms for sequential decision-making under uncertainty
3. Reinforcement learning and control for robotics

PUBLICATIONS

Seokmin Ko, Ambuj Tewari, & Kihyuk Hong. (submitted to 2026 NeurIPS). Offline Constrained Reinforcement Learning under Partial Data Coverage. [\[arXiv\]](#)

- Proposed a primal-dual algorithm for offline constrained RL that operates under single-policy concentrability, a weaker data-coverage assumption than prior work.
- Established sample-complexity guarantees independent of the full-coverage assumption, and validated the algorithm on standard offline RL benchmarks.

AWARDS

Selected as Top 100 (out of 630 teams), 2025 AI Champion Competition, Ministry of Science and ICT, Republic of Korea

- Team **FlowPharmatics** (6 members) – proposed an offline learning framework that integrates GFlowNets with DICE (Distribution Correction Estimation), removing the dependency on a Proxy Network for reward evaluation.
- Led the algorithm design, reformulating GFlowNet training from trajectory-level to transition-level updates for improved stability and data efficiency in drug discovery applications.

SKILLS

1. Python (Pytorch, Numpy, Pandas)
2. Matlab
3. Verilog
4. Arduino