SUJIN YUN

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Graduate School of Data Science

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RESEARCH INTEREST

Deep learning, reinforcement learning, generative models, and decision making

EDUCATION

3/2023 - 2/2025	**MS in Graduate School of Data Science**	**KAIST**
	System intelligence Lab, supervised by Jinkyoo Park	
3/2018 - 2/2023	**BS in Industrial Engineering**	**Yonsei University**

CONFERENCE

*: Equal contribution

ICLR, 2024 (Workshop, Spotlight)	**GTA: Generative Trajectory Augmentation with Guidance for Offline Reinforcement Learning** [Paper Link][Github Repo]
	ICLR 2024 Workshop: Generative Models for Decision Making
	Jaewoo Lee*, Sujin Yun*, Taeyoung Yun, Jinkyoo Park
KDD, 2024	**An Offline Meta Black-box Optimization Framework for Adaptive Design of Urban Traffic Light Management Systems** [Paper Link][Github Repo]
	KDD 2024
	Taeyoung Yun*, Kanghoon Lee*, Sujin Yun, Ilmyung Kim, Wonwoo Jung, Mincheol Kwon, Kyujin Choi, Yoohyeon Lee, Jinkyoo Park

IN PROGRESS

Under review	**Guided Trajectory Generation with Diffusion Models for Offline Model-based Optimization** [Paper Link][Github Repo]
	Taeyoung Yun, Sujin Yun, Jaewoo Lee, Jinkyoo Park

INDUSTRY PROJECT

4/2023 – 10/2023	**Automated Control of Compressor Operations through offline RL**	**Samsung Heavy Industry**
	· Addressing the rising energy costs by optimizing power consumption through automated control of compressors in shipyards using offline reinforcement learning.	

WORK EXPERIENCE

1/2022 – 2/2022	**CJ Logistics Data Science Team**	**CJ Logistics**
	· **Data Scientist.** Developing a deep learning model for demand forecasting and vehicle number prediction algorithms based on logistics data.	
3/2021 – 8/2021	**Voithru Data Science Team**	**Voithru**
	· **Data Scientist.** Developing and maintaining KPI dashboard. Data analysis on youtube log data and user log data.	

TEACHING EXPERIENCE

3/2024 – 6/2024	**Teaching Assistant**	**KAIST**
	· IE437: Data-Driven Decision Making and Control	

EXTRACURRICULAR ACTIVITIES

1/2022 – 12/2022 **YAI, Yonsei Artificial Intelligence club**   **Yonsei University**

- Served as a club president
- Conduct seminars about learning on graph(GNN, Stanford CS224W)

1/2021 – 12/2021 **Ybigta**   **Yonsei University**

- Project about training a chatbot agent with an emotion persona using a Korean emotion classification dataset and serving it through a messenger app.
- Conduct seminars about transformers in natural language processing

HONORS AND AWARDS

11/2021   **2nd Place**   **CJ logistics AI/Big data & System Future Technology Challenge**

- Competition on product demand forecasting