

# SUJIN YUN

MS student @ KAIST  
Graduate School of Data Science

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sujinyun999

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## RESEARCH INTEREST

Diffusion models, Reinforcement Learning, 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), Under review **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

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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

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11/2021

**2nd Place**

**CJ logistics AI/Big data & System Future Technology Challenge**

- Competition on product demand forecasting