Yujee Song

Artificial Intelligence Research Scientist

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Personal Profile

I am currently pursuing a Master's degree in machine learning at POSTECH under the supervision of Professor Won Hwa Kim. My research focuses on generative models using dynamical systems, particularly in modeling marked temporal point processes with ODEs. I am dedicated to bridging the gap between advanced AI techniques and practical healthcare solutions, which motivates my professional endeavors.

Educations

POSTECH *Pohang, Republic of Korea*

MSc. in Artificial Intelligence *Feb 2023 - Present*

- Class President, Graduate Schoool of Artificial Intelligence

Chung-Ang University *Seoul, Republic of Korea*

BSc. in Compute Science and Engineering *Mar 2020 - Feb 2022*

- Cumulative GPA: 4.47/4.50
- Summa Cum Laude

University of California, Irvine *CA, USA*

BSc. in Computer Science and Engineering *Sep 2015 - Apr 2017*

- Cumulative GPA: 3.57/4.00
- Dean's Honors List: 5 Semesters

Research Interests

- Time Series Modeling
- Medical AI
- Explainable AI
- Generative Model

Publications

Decoupled Marked Temporal Point Process using Neural Ordinary Differential Equations
Yujee Song, Donghyun Lee, Rui Meng, Won Hwa Kim
International Conference on Learning Representations (ICLR), 2024

Gene-to-Image: Decoding Brain Images from Genetics via Laten Diffusion Models
Suyeon Jeon, Yujee Song, Won Hwa Kim
7th International Workshop on Predictive Intelligence in Medicine (PRIME-MICCAI), 2024

Topology-aware Graph Diffusion Model for Brain Network Generation (under review)
Joonhyuk Park*, Donghyun Lee*, Yujee Song, Won Hwa Kim
International Conference on Learning Representations (ICLR), 2025

Experiences

Research Internship *Seoul, Korea*

VUNO *Jul 2024 - Sep 2024*

- Leading a research project on dementia patient classification, focusing on interpretable modeling of clinical data.
- Working on lesion segmentation of MR images to enhance diagnostics and support treatment planning.
- Collaborating with ASAN Medical Center to integrate innovative AI approaches into healthcare analytics.

Alzheimer Disease Diagnosis from Brain EEG *Pohang, Korea*

POSTECH, joint research with KIOM *Aug 2023 - Dec 2023*

- Utilized resting EEG, resting ERP, and attention ERP signals for Alzheimer Disease (AD) diagnosis.
- Processed and analyzed brain signals to develop neural architectures for effective diagnosis.
- Collaborated with a researcher from KIST to enhance diagnostic methods using brain signal data.

Languages

English Professional proficiency
Korean Native proficiency