

Joshua Tee Tian Jin, Ph.D. Candidate

✉ joshuateetj@kaist.ac.kr

Research Interest

I am a generative AI researcher focused on diffusion and flow-based models. I study preference alignment to improve sample quality and apply knowledge distillation to speed up inference. My goal is to produce generative systems that combine high-fidelity outputs with practical efficiency for real-world use.

Education

August 2018 – July 2022 **B.S., KAIST** Double Major in Mathematics and Physics

August 2022 – Present **Ph.D.-Integrated Candidate, KAIST** Electrical Engineering

Skills

Machine Learning: Diffusion Models, Model Alignment, Large-Model Fine-tuning

Programming: Python, PyTorch, HuggingFace / Diffusers

Mathematics: Probability Theory, Linear Algebra, Optimization, Stochastic Differential Equations

Research Publications

- 1 **Joshua Tian Jin Tee**, Hee Suk Yoon, Abu Hanif Muhammad Syarubany, Eunseop Yoon, and Chang D. Yoo
A Gradient Guidance Perspective on Stepwise Preference Optimization for Diffusion Models
NeurIPS 2025
🔗 URL: <https://openreview.net/forum?id=d6lI0nvOX2>
- 2 **Joshua Tian Jin Tee***, Kang Zhang*, Chanwoo Kim, Dhananjaya Nagaraja Gowda, Hee Suk Yoon, and Chang D. Yoo
Physics Informed Distillation for Diffusion Models
TMLR 2024
🔗 URL: <https://openreview.net/forum?id=a24gfxA7jD>
- 3 Hee Suk Yoon*, **Joshua Tian Jin Tee***, Eunseop Yoon, Sunjae Yoon, Gwangsu Kim, Yingzhen Li, and Chang D. Yoo
ESD: Expected Squared Difference as a Tuning-Free Trainable Calibration Measure
ICLR 2023
🔗 URL: <https://openreview.net/forum?id=bHW9njOSON>
- 4 Hee Suk Yoon*, Eunseop Yoon*, **Joshua Tian Jin Tee***, Kang Zhang, Jaeseok Kim, Du-Seong Chang, and Chang D. Yoo
BI-MDRG: Bridging Image History in Multimodal Dialogue Response Generation
ECCV 2024
🔗 URL: https://doi.org/10.1007/978-3-031-72751-1_22
- 5 Hee Suk Yoon*, Eunseop Yoon*, **Joshua Tian Jin Tee**, Mark A. Hasegawa-Johnson, Yingzhen Li, and Chang D. Yoo
C-TPT: Calibrated Test-Time Prompt Tuning for Vision-Language Models via Text Feature Dispersion
ICLR 2024
🔗 URL: <https://openreview.net/forum?id=jzzEHTBFOT>
- 6 Tung Luu, Thanh Nguyen, **Joshua Tian Jin Tee**, Sungwoong Kim, and Chang D. Yoo
Mitigating Adversarial Perturbations for Deep Reinforcement Learning via Vector Quantization
IROS 2024
🔗 URL: <https://ieeexplore.ieee.org/document/10802066>

*Indicates equal contribution