

# **Joshua Tee Tian Jin, Ph.D. Candidate**

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## **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=d6lIOnvOX2>
- 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=bHW9nj0SON>
- 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](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