Viet Nguyen ☑ viettmab123@gmail.com | ② viettmab.github.io | ♡ viettmab | in viettmab

EDUCATION

Hanoi University of Science and Technology (HUST)

Hanoi, Vietnam

2019 - 2023

B.E. in Information Technology

- Highest GPA in graduating class (3.93/4.0)
- Thesis: Some improvements for Diffusion Probabilistic Models

Publications

(*) denotes equal contribution

Viet Nguyen*, Giang Vu*, Tung Nguyen Thanh, Khoat Than, Toan Tran, "On Inference Stability for Diffusion Models", Oral Presentation (Top 2%) in Proceedings of the 38th AAAI Conference on Artificial Intelligence, 2024. [pdf]

PREPRINTS

(*) denotes equal contribution

Viet Nguyen*, Anh Nguyen*, Trung Dao, Khoi Nguyen, Cuong Pham, Toan Tran, Anh Tran, "SNOOPI: Supercharged One-step Diffusion Distillation with Proper Guidance", *Under Review*, 2024. [pdf, page]

Bao Tran*, Viet Nguyen*, Anh Tran, Toan Tran, "Dual-Model Defense: Safeguarding Diffusion Models from Membership Inference Attacks through Disjoint Data Splitting", Under Review, 2024. [pdf]

EXPERIENCE

VinAI Research Feb 2023 - Now

AI Research Resident

- Advisor: Dr. Toan Tran, Dr. Anh Tran
 - Research interest: Diffusion Models, Multimodal Learning, Trustworthy GenAI
 - Past works:
 - * Proposed a novel sequence-aware loss function to enhance image quality in unconditional diffusion models.
 - * Improved the quality and controllability of one-step text-to-image diffusion models.
 - * Developed a defense method to protect diffusion models from membership inference attacks.

School of Information and Communications Technology, HUST

Oct 2024

Teaching Assistant

• Course: Generative AI Engineering

VinAI Research Apr - Jul 2024

AI Research Engineer

- Advisor: Dr. Dzung Nguyen, Dr. Anh Tran, Dr. Toan Tran
- Personalized Text-to-Image Diffusion model: Built a celebrity dataset, trained personalized diffusion models, and distilled them into few-step model for faster generation.
- Diffusion models for generating Zoom background images: Fine-tuned to produce high-quality, landscape-resolution outputs.

Data Science Lab, HUST

Mar 2021 - Aug 2023

AI Research Assistant

- Advisor: Assoc. Prof. Khoat Than
- Research interest: Deep Generative Models, Diffusion Models
- Acquired background knowledge and reimplemented VAEs, GANs, and Diffusion Models.
- Conducted seminars on generative models and mentored newcomers through reimplementation projects and technical guidance.

AWARDS AND ACHIEVEMENTS

Awarded Excellent Scholarship in all semesters (HUST)	2019 - 2023
Honored with the highest GPA among all students in the graduating class of 2023 (HUST)	Sep 2023
Won the Best Thesis Presentation Award (HUST)	Aug 2023
Secured 2 nd position at Developer Circles Vietnam Innovation Challenge in Hanoi	Dec 2020

CERTIFICATIONS

Python for Everybody Certificate issued by University of Michigan	Aug - Sep 2020
Machine Learning Certificate issued by Stanford University	Sep 2020
Deep Learning Specialization Certificate issued by deeplearing.ai	Sep - Oct 2020

TECHNICAL SKILLS

Languages: C, Python

Tools: PyTorch, TensorFlow, Git

References

Dr. Toan Tran

Research Scientist, Head of Machine Learning team, Vin
AI Research, Vietnam v.toantm3 winai.io

Dr. Anh Tran

Senior Research Scientist, Head of Computer Vision team, Vin
AI Research, Vietnam v.anhtt152@vinai.io

Assoc. Prof. Khoat Than

Director of Data Science Laboratory, HUST khoattq@soict.hust.edu.vn