

Viet Nguyen

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EDUCATION

Hanoi University of Science and Technology (HUST)

Hanoi, Vietnam

Engineer's Degree, Information Technology

2019 - 2023

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

CERTIFICATIONS

Python for Everybody Certificate issued by University of Michigan	<i>Aug - Sep 2020</i>
Machine Learning Certificate issued by Stanford University	<i>Sep 2020</i>
Deep Learning Specialization Certificate issued by deeplearning.ai	<i>Sep - Oct 2020</i>

TECHNICAL SKILLS

Languages: C, Python
Tools: PyTorch, TensorFlow, Git

REFERENCES

Dr. [Toan Tran](#)

Research Scientist, Head of Machine Learning team, VinAI Research, Vietnam
v.toantm3@vinai.io

Dr. [Anh Tran](#)

Senior Research Scientist, Head of Computer Vision team, VinAI Research, Vietnam
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Assoc. Prof. [Khoat Than](#)

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