

Viet Nguyen

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EDUCATION

Johns Hopkins University (JHU)

Ph.D. in Computer Engineering

- Advised by Prof. [Vishal M. Patel](#)

Baltimore, USA

2025 - Present

Hanoi University of Science and Technology (HUST)

B.E. in Information Technology

- Highest GPA in graduating class (3.93/4.0)

- Thesis: Some improvements for Diffusion Probabilistic Models

Hanoi, Vietnam

2019 - 2023

PUBLICATIONS

(*) denotes equal contribution

Viet Nguyen, Vishal M. Patel, “CGCE: Classifier-Guided Concept Erasure in Generative Models”, *European Conference on Computer Vision (ECCV)*, 2026. [pdf, page]

Anh Nguyen*, Ngan Nguyen*, Duc Vu*, Trung Dao, **Viet Nguyen**, Quan Dao, Kien Nguyen, Chi Tran, Phong Nguyen, Khoi Nguyen, Cuong Pham, Dimitris Metaxas, Vishal M. Patel, Anh Tran, “Cross-Space Distillation: Teaching One-Step Students with Modern Diffusion Teachers”, *European Conference on Computer Vision (ECCV)*, 2026. [pdf]

Anh Nguyen*, **Viet Nguyen***, Duc Vu, Trung Dao, Chi Tran, Toan Tran, Anh Tran, “Improved Training Technique for Shortcut Models”, *The Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2025. [pdf]

Viet Nguyen*, Anh Nguyen*, Trung Dao, Khoi Nguyen, Cuong Pham, Toan Tran, Anh Tran, “Supercharged One-step Text-to-Image Diffusion Models with Negative Prompts”, *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025. [pdf, page]

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, Thao Nguyen, Vishal M. Patel, Yuheng Li, “Personal Visual Memory from Explicit and Implicit Evidence”, *arXiv preprint*, 2026. [pdf, page]

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

EXPERIENCE

Adobe Research, USA

Research Scientist Intern

- **Advisor:** Dr. [Yuheng Li](#)
- **Research interests:** AI Agents, Visual Memory

May 2026 - Now

Johns Hopkins University, USA

Research Assistant

- **Advisor:** Prof. [Vishal M. Patel](#)
- **Research interest:** Generative Models, Model Editing, Multimodal Learning
 - * Improving the identity preservation of headshot generation by using a photorealistic synthesis dataset.
 - * Proposed a novel method for concept erasure in image and video models.

Aug 2025 - Now

Qualcomm AI Research, Vietnam

AI Research Intern

- **Advisor:** Dr. [Toan Tran](#), Dr. [Anh Tran](#)

Apr 2025 - Jul 2025

- **Research interest:** Diffusion Models, Multimodal Learning
- **Past works:**
 - * Improved the quality and controllability of one-step text-to-image diffusion models.
 - * Improved the training of shortcut models.

VinAI Research, Vietnam

Feb 2023 - Mar 2025

AI Research Engineer

- **Advisor:** Dr. [Toan Tran](#), Dr. [Anh Tran](#), Dr. [Dzung Nguyen](#)
- **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.
 - * Personalized Text-to-Image Diffusion model: Built a celebrity dataset, trained personalized diffusion models, and distilled them into few-step model for faster generation.
 - * Developed a defense method to protect diffusion models from membership inference attacks.
 - * Diffusion models for generating Zoom background images: Fine-tuned to produce high-quality, landscape-resolution outputs.

School of Information and Communications Technology, HUST

Oct 2024

Teaching Assistant

- Course: Generative AI Engineering

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 ECE Fellowship (JHU)	Sep 2025
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 2nd 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 deeplearning.ai	Sep - Oct 2020

TECHNICAL SKILLS

Languages: C, Python
Frameworks: PyTorch, TensorFlow, NumPy, etc

REFERENCES

Prof. [Vishal M. Patel](#)

Professor, Department of Electrical and Computer Engineering, JHU
 vpatel36@jhu.edu

Dr. [Anh Tran](#)

Principal Researcher, Qualcomm AI Research, Vietnam
 anhtra@qti.qualcomm.com

Dr. [Toan Tran](#)

Research Scientist, Qualcomm AI Research, Vietnam
 toatran@qti.qualcomm.com