LONG-GIANG VU

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EDUCATION

MS Computer Science, University of California, San Diego (CGPA: 3.86/4.0)   2024-2026

- **Research advisor**: Professor Ravi Ramamoorthi.
- Fine-tuning the Stable Virtual Camera model to generate high-fidelity multi-view human images.
- Synthesizing synthetic datasets to train light-variant (ICLight) and pose-variant (InfiniU) generative models.
- Integrating face embeddings into generation pipeline to improve facial region quality and identity preservation.

BS Computer Science, Hanoi University of Science and Technology (CGPA: 3.76/4.0)   2018 - 2023

- **Research and thesis advisor**: Associate Professor Khoat Than.
- **Highest score** at Machine Learning thesis committee. Thesis: Improving Diffusion Model inference by Dropout.
- Conducted research on Diffusion Models, focus on addressing iterative inference process.
- Investigated generalization of overparameterized deep learning models.

PUBLICATIONS

AAAI 2024	On Inference Stability for Diffusion Models (**Oral presentation**) *Giang Vu*, Viet Nguyen*, Tung Nguyen Thanh, Khoat Than, Toan Tran*
SPRINGER NATURE MACHINE LEARNING	Gentle Local Robustness implies Generalization *Khoat Than, Dat Phan, Giang Vu*

RELEVANT COURSEWORKS

Computer Science	Computer Vision I, Differentiable Discrete Geometry, Reinforcement Learning, Physics simulation, Differentiable Programming, Convex Optimization
Robotics	Introduction to Autonomous Vehicles, Control (planned), Robotics (planned)

HONORS AND AWARDS

- VinGroup scholarship for Masters study at UCSD (Fully covered tuition fee and living expenses)   **VinGroup**
- Scholarships for outstanding students (top 1%) for Fall 2020 and Fall 2021   **HUST**.

INDUSTRIAL EXPERIENCE

Software Engineer Intern — Woven by Toyota   Jun 2025 - Aug 2025 — CA, US

- **Manager**: Dr. Alborz Alavian
- Developed metrics to quantify data quality for the motion planning phase of autonomous driving systems.
- Learned about autonomous tech stacks: Map representation, safety optimization framework, operating system for vehicles.

Data Scientist — Techcom Securities   May 2024 - Aug 2024 — Hanoi, VN

- Accelerated experiment and campaign launch cycles from 1-2 weeks to 10-20 minutes by consolidating scattered data tasks into a unified AutoML Platform.

Data Application Engineer — Viettel   June 2023 - Apr 2024 — Hanoi, VN

- Streamlined the end-to-end data scientist workflow by architecting the Viettel Machine Learning Platform and Viettel Recommendation Platform.

AI Engineer — TopCV   Jul 2021 - Apr 2023 — Hanoi, VN

- Engineered a re-ranking algorithm that boosted conversion rates by 2% in high-traffic sections, NLP internal toolkit and job spam detection.