MINH QUAN LE

 Google Scholar   minhquanlecs.github.io   mile@cs.stonybrook.edu   +1 (934) 228-9780

Education

Stony Brook University **Sep 2023 – Present**
Ph.D. in Computer Science - Supervisor: **Prof. Dimitris Samaras** NY, USA

University of Science, VNU-HCM **Sep 2018 – Sep 2022**
B.S. in Computer Science, Honors Program HCMC, Vietnam

Experience

Microsoft **May 2024 – Sep 2025**
Research Internship at Microsoft, Responsible and OpenAI Research (ROAR) WA, USA
- Bridging Diversity and Fidelity in Image Generation via Multimodal Context Rewards.
- Improving Alignment of Text-to-Video Generation with Optimal Transport.
- Advisor: **Gaurav Mittal**, **Mei Chen**

University of Illinois at Urbana-Champaign **Oct 2022 – Jan 2023**
Research Internship at Coordinated Science Laboratory IL, USA
- Digitized Neurological Examination: Inverse Kinematics and Inverse Dynamics from Human Pose.
- Advisor: **Prof. Minh N. Do**

Selected Publications

Hummingbird: High Fidelity Image Generation via Multimodal Context Alignment **ICLR 2025**
Minh-Quan Le*, Gaurav Mittal*, Tianjian Meng, A S M Iftekhar, . . . , Dimitris Samaras, Mei Chen

∞-Brush 🖌: Controllable Large Image Synthesis with Diffusion Models in Infinite Dimensions **ECCV 2024**
Minh-Quan Le*, Alexandros Graikos*, Srikar Yellapragada, Rajarsi Gupta, Joel Saltz, Dimitris Samaras

MaskDiff: Modeling Mask Distribution with Diffusion Probabilistic Model for Few-Shot Instance Segmentation **AAAI 2024**
Oral
Minh-Quan Le, Tam V. Nguyen, Trung-Nghia Le, Thanh-Toan Do, Minh N. Do, Minh-Triet Tran

Learned representation-guided diffusion models for large-image generation **CVPR 2024**
Alexandros Graikos*, Srikar Yellapragada*, **Minh-Quan Le**, Saarthak Kapse
Prateek Prasanna, Joel Saltz, Dimitris Samaras

CamoFA: A Learnable Fourier-based Augmentation for Camouflage Segmentation **WACV 2025**
Minh-Quan Le*, Minh-Triet Tran*, Trung-Nghia Le, Tam V. Nguyen, Thanh-Toan Do

GUNNEL: Guided Mixup Augmentation and Multi-Model Fusion for Aquatic Animal Segmentation **Neural Computing & Applications**
Minh-Quan Le*, Trung-Nghia Le*, Tam V. Nguyen, Isao Echizen, Minh-Triet Tran

Camouflaged Instance Segmentation In-The-Wild: Dataset, Method, and Benchmark Suite **Trans. on Image Processing 2022**
Trung-Nghia Le, Yubo Cao, Tan-Cong Nguyen, **Minh-Quan Le**, . . . , Tam V. Nguyen

Data-Driven City Traffic Planning Simulation **ISMAR 2022**
Tam V. Nguyen, . . . , **Minh-Quan Le**, . . . , Minh-Triet Tran

Interactive Video Object Mask Annotation **AAAI 2021**
Trung-Nghia Le, Tam V. Nguyen, . . . , **Minh-Quan Le**, Minh-Triet Tran

Honors and Awards

- The Panasonic Scholarship **2021**
- The Odon Vallet Scholarship **2020**
- **Top 3** in Human Portrait Segmentation Challenge - Human-Centric Image/Video Synthesis (CVPRW) **2020**
- **Top 4** in Semi-supervised Video Instance Segmentation Challenge - DAVIS Challenge on VOS (CVPRW) **2020**
- **Top 1** Ho Chi Minh AI City Challenge 2020 - Vehicle Counting **2020**
- **Top 1** AI4VN Hackathon 2020: Smart Citizens for Smart Cities **2020**
- Facebook Developer Circles Vietnam Innovation Challenge Scholarship **2019**
- **Valedictorian** in the entrance exam for admission to University of Science - top 1/3445 **2018**

Projects

EAGER: Crowd-AI Sensing Based Traffic Analysis for Planning Simulation $2020 - 2022$
- Funded by National Science Foundation (NSF)
- Core member in computer vision team: object detection/tracking, vehicles counting, . . .

Technical Skills

Languages: Python, C++, Java, SQL, . . .
Technologies/Frameworks: PyTorch, Linux, GitHub, Latex, . . .

Academic Activities

- Reviewer at CVPR, WACV **2024, 2025**
- Reviewer at ECCV, MMM **2022**
- Poster presentation at CV4Animals Workshop, CVPRW **2022**
- Lecturer at VietAI: give tutorials on Python, Probability and Statistics, Linear Algebra, . . . **2021**

Referees

Prof. Dimitris Samaras
SUNY Empire Innovation Professor
Director of Computer Vision Laboratory
Department of Computer Science
Stony Brook University, NY, USA
✉ samaras@cs.stonybrook.edu