

# MINH QUAN LE

 [Google Scholar](#)

 [mile@cs.stonybrook.edu](mailto:mile@cs.stonybrook.edu)

 +1 (934) 228-9780

## Education

### Stony Brook University

Ph.D. in Computer Science - Supervisor: [Prof. Dimitris Samaras](#)

Sep. 2023 – Present

NY, USA

### University of Science, VNU-HCM

B.S. in Computer Science, Honors Program

Sep. 2018 – Sep. 2022

HCMC, Vietnam

## Experience

### Microsoft

Research Internship at Microsoft, Responsible and OpenAI Research (ROAR)

May 2024 – Aug. 2024

WA, USA

- Trainable Adaptation of Diffusion Models via Feedback Loop.
- Advisor: [Gaurav Mittal](#), [Mei Chen](#)

### University of Illinois at Urbana-Champaign

Research Internship at Coordinated Science Laboratory

Oct. 2022 – Jan. 2023

IL, USA

- Digitized Neurological Examination: Inverse Kinematics and Inverse Dynamics from Human Pose.
- Advisor: [Prof. Minh N. Do](#)

## Selected Publications

$\infty$ -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

Unveiling Camouflage: A Learnable Fourier-based Augmentation for  
Camouflaged Object Detection and Instance Segmentation

Under review

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

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- 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

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- 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

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**Languages:** Python, C++, Java, SQL, ...

**Technologies/Frameworks:** PyTorch, Linux, GitHub, Latex, ...

## Academic Activities

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- Reviewer at CVPR **2024**
- 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

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### **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](mailto:samaras@cs.stonybrook.edu)