

Khoi Duc Nguyen

CONTACT INFORMATION	<i>E-mail:</i> kdnguyen7@wisc.edu <i>Google scholar:</i> Khoi Duc Nguyen <i>Homepage:</i> khoiucd.github.io <i>Github:</i> khoiucd	
EDUCATION	University of Wisconsin-Madison <ul style="list-style-type: none">• PhD student in Computer Sciences• Currently working with Professor Yin Li Ho Chi Minh City University of Technology (HCMUT) <ul style="list-style-type: none">• B.Eng. in Computer Engineering• Excellent, GPA 9.10/10.00	September 2023 - Present September 2017 - December 2021
RESEARCH INTERESTS	My research is machine learning and computer vision. My past works focused on data-efficiency in image classification, video classification, and pose estimation.	
PUBLICATIONS	Google Scholar Profile (* denotes shared first authorship) [1] Khoi Duc Nguyen , Li Chen, Gim Hee Lee ESCAPE: Encoding Super-keypoints for Category-Agnostic Pose Estimation In <i>Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2024. [2] Khoi Duc Nguyen , Quoc-Huy Tran, Khoi Nguyen, Binh-Son Hua, Rang Nguyen Inductive and Transductive Few-Shot Video Classification via Appearance and Temporal Alignments In <i>European Conference on Computer Vision (ECCV)</i> , 2022. [3] Duong H. Le*, Khoi Duc Nguyen* , Khoi Nguyen, Quoc-Huy Tran, Rang Nguyen, Binh-Son Hua POODLE: Improving Few-shot Learning via Penalizing Out-of-Distribution Samples In <i>Proc. 35th Conference on Neural Information Processing Systems (NeurIPS)</i> , 2021.	
EXPERIENCE	Research Intern, National University of Singapore, Singapore Advised by Li Chen , and Professor Gim Hee Lee <ul style="list-style-type: none">• Main research topics: 2D pose estimation, few-shot learning.• Project: Category-agnostic pose estimation.<ul style="list-style-type: none">- Designed a Bayesian framework for learning prior knowledge from base data and transferring it to unseen data.- Work was published at CVPR 2024. Research Resident, VinAi Research, Vietnam Advised by Rang Nguyen , Quoc-Huy Tran , and Professor Binh-Son Hua <ul style="list-style-type: none">• Main research topic: Few-shot learning.• Project: Few-shot video classification.<ul style="list-style-type: none">- Proposed a method for classifying videos by separately considering temporal and appearance information. This work was the first to introduce a transductive method to the few-shot video classification task.- Work was published at ECCV 2022.• Project: Few-shot image classification.<ul style="list-style-type: none">- Proposed an enhancement for image in-distribution classifiers using out-of-distribution data. The method is applicable to both inductive and transductive settings in few-shot image classification.- Work was published at NeurIPS 2021. Engineering Intern, FPT Software, Vietnam	June 2022 - May 2023 November 2020 - June 2022 June 2020 - September 2020

- Project: Teeth Segmentation in Panoramic Dental X-ray.
- Implemented a U-Net network for segmenting teeth from X-ray images.

HONORS AND AWARDS	FPT Digital Race Programming self-propelled vehicles contest (Semifinal, 3rd / nearly 200).	2020
	Hau Due PASCAL Collegiate Programming Contest run by Ho Chi Minh City University of Technology (2nd / 50).	2019
	Outstanding Academic Achievement Awarded to the top 20 students with the highest GPA of HCMUT International Program.	2018, 2019, 2021
	HCMUT - International Program Valendictorian Second highest score in University Entrance Exam.	2017
TECHNICAL SKILLS	Python (PyTorch, TensorFlow, Numpy)	
TEACHING	Teaching Assistant , <i>University of Wisconsin-Madison</i> CS354: Machine Organization and Programming CS240: Intro to Discrete Mathematics	Spring 2024 Fall 2023
SERVICES	Conference Reviewer CVPR 2023, NeurIPS 2023	