

Tuan Van Vo

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EDUCATION

Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI) Abu Dhabi, UAE
PhD in Computer Vision, supervised by Prof. Ian Reid 2026 – Present

Vietnam National University Ho Chi Minh City University of Information Technology
Bachelor of Science in Computer Science Aug. 2017 – June 2021

- First Class with Honors (**Talented Class – Honors Program**)
- GPA: 8.32/10
- **Honors programs** offer special curricula, privileges, scholarships, and recognition for exceptional undergraduate students.

PUBLICATION [[GOOGLE SCHOLAR](#)]

- [9] Duy Le Dinh Anh, Patrick Amadeus Irawan, **Tuan Van Vo**. Counting to Four is still a Chore for VLMs. In *CVPR 2026 Workshops – The 5th Workshop on Multimodal Foundation Models*, 2026. [Arxiv](#)
- [8] An Dinh Vuong*, **Tuan Van Vo***, Abdullah Sohail, Haoran Ding, Liang Ma, Xiaodan Liang, Anqing Duan, Ivan Laptev, Ian Reid. World2Act: Latent Action Post-Training via Skill-Compositional World Models. [Arxiv Homepage](#) (*) **Co-first authors, Equal contribution**
- [7] Baoru Huang*, **Tuan Van Vo***, Chayun Kongtongvattana, Anh Nguyen. CathAction: A Benchmark for Endovascular Intervention Understanding, 2026. [Arxiv](#) (*) **Co-first authors, Equal contribution**
- [6] **Tuan Van Vo**, Quang Tan Nguyen, Khang Nguyen, Tran Xuan Nhat, Duy Minh Ho Nguyen, An Thai Le, Vien Anh Ngo, Minh Nhat Vu. ReFineVLA: Multimodal Reasoning-Aware Generalist Robotic Policies via Teacher-Guided Fine-Tuning. 2025. [Arxiv](#)
- [5] Sy-Tuyen Ho*, **Tuan Van Vo***, Ebrahimkhani Somayeh*, and Ngai-Man Cheung. Vision Transformer Neural Architecture Search for Out-of-Distribution Generalization: Benchmark and Insights. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2024. [Paper Github \(Code\)](#)
(*) **Co-first authors, Equal contribution**
- [4] **Tuan Van Vo**, Minh Nhat Vu, Baoru Huang, Toan Nguyen, Ngan Le, Thieu Vo, Anh Nguyen. Open-Vocabulary Affordance Detection using Knowledge Distillation and Text-Point Correlation. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2024. **Oral Presentation**. [Paper Code Video](#)
- [3] Toan Nguyen, Minh Nhat Vu, Baoru Huang, **Tuan Van Vo**, Thuy Tuong Vy Truong, Ngan Le, Thieu Vo, Hoai Bac Le, Anh Nguyen. Language-Conditioned Affordance-Pose Detection in 3D Point Clouds. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2024. **Oral Presentation**. [Paper Code Video](#)
- [2] **Tuan Van Vo**, Minh Nhat Vu, Baoru Huang, An Vuong, Ngan Le, Thieu Vo, and Anh Nguyen. Language-driven Grasp Detection with Mask-guided Attention. In *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2024. **Oral Presentation**. [Paper Code](#)
- [1] Nam Phuong Nguyen*, **Tuan Van Vo***, Soan T. M. Duong, Chanh D. Tr. Nguyen, Trung Bui, Steven Q. H. Truong. Dual consistency assisted multi-confident learning for the hepatic vessel segmentation using noisy labels. In *The British Machine Vision Conference (BMVC)*, 2022. [Paper Code](#)
(*) **Co-first authors, Equal contribution**

ACADEMIC SERVICES

Reviewer Services

Journal and Conference Reviewer

- Reviewer for TMM-24, ICRA-25, IROS-25, CoRL-25, CoRL-26

WORK EXPERIENCE

VinRobotics, Vingroup Corporation

April. 2025 – Aug. 2025

Principal Research Engineer (Founding Team Member)

Vietnam

- Research focus: Foundation Models for Vision-Language-Action (VLA) in robotics.
- Lead scientist developing large-scale multimodal VLA models that integrate vision, natural language, and action planning for next-generation robotics at VinRobotics.

Singapore University of Technology and Design, Singapore

Sept. 2023 – Mar. 2025

Research Assistant

- Research focus: Zero-Shot Neural Architecture Search
- Vision Transformer Neural Architecture Search for Out-of-Distribution Generalization, **resulting in a publication at NeurIPS 2024**

FPT Software AI Center

July. 2022 – June. 2024

AI Research Residency

- Research focus: Multimodal Robot Learning
- **Resulted in two publications at ICRA 2024 and one at IROS 2024**

MoMo (M-Service JSC)

June. 2022 – August. 2023

Computer Vision Research Engineer

- Researched and developed AI solutions, specifically designing computer vision models for the eKYC system of the MoMo app
- Designed and implemented Face Anti-Spoofing, Object Detection, OCR, Deep-Fake Detection, Fraud Detection, and Document Understanding models
- Achieved a 99% accuracy rate with low latency, serving nearly 40 million users at about 45 RPS
- **These AI eKYC systems have gained trust and are utilized by the Apple Online Store in Vietnam**

VinBrain (Acquired by NVIDIA)

May. 2021 – May. 2022

Applied Scientist

- Conducted research and development of AI for medical segmentation and diagnostic tasks, as well as AI for Smart City and Smart Home solutions
- Designed models for 3D MRI CT-Rectal Tumor Segmentation, Liver Vessel Segmentation, Pet Detection, and Coverface Detection on surveillance cameras
- Successfully delivered all AI models to products to assist doctors. In the surveillance camera project, the AI models were also successfully delivered and deployed at VinHome residential areas for camera-AI based surveillance
- Performed in-depth research and targeted academic papers for prestigious AI conferences, **resulting in a publication at BMVC 2022**

FPT Software

May. 2020 – May. 2021

AI Engineer - Technical Lead of Healthcare Projects

- Designed and implemented cutting-edge AI solutions for healthcare in the Japanese market, addressing customer requirements related to model design, logic, evaluation, and reporting
- Designed models for semantic segmentation of dental X-rays and classification of 72 implant types
- Successfully delivered all AI models to the customer

MMLab - UIT

Oct. 2019 – May 2021

Research Assistant, University of Information Technology (UIT) - VNUHCM

- Research Thesis: Violence Detection in Video Surveillance Using a Deep Multiple Instance Learning Ranking Approach ([PDF](#))

SCHOLARSHIP AND ACTIVITIES

Full Scholarship and Stipend for PhD Study at Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI)
Rosen Scholarship 2020 & 2021
Study Scholarships 2018 & 2019
Participated in the ICPC 2019 Vietnam National Programming Contest
Attended and presented two oral papers at ICRA 2024, Yokohama, Japan

SKILLS

Programming Languages and AI Framework: Python, C/C++, SQL, OpenCV, Pytorch, Tensorflow, Keras
Tools: Linux, Docker, Google Cloud, Jupyter Notebook/Lab, Git
Languages: English (6.0 IELTS), Vietnamese (native)
Typography: LATEX, Microsoft Office

REFERENCES

- **Prof. Ian Reid**

Department Chair and Professor of Computer Vision at MBZUAI.
Acting Director of Research Administration at MBZUAI.

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Google Scholar <https://scholar.google.com/citations?user=ATkNLcQAAAAJ&hl=en>

Homepage <https://mbzuai.ac.ae/study/faculty/ian-reid/>

- **Prof. Anh Nguyen**

Associate Professor at the University of Liverpool.
Director of the Smart Robotic Lab, Department of Computer Science.

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Google Scholar <https://scholar.google.com/citations?user=gEbaF0sAAAAJ&hl=en>

Homepage <https://www.csc.liv.ac.uk/~anguyen/>

- **Prof. Ngai-Man (Man) Cheung**

Associate Professor at the Singapore University of Technology and Design (SUTD).
Associate Pillar Head (Education)

Email ngaiman_cheung@sutd.edu.sg

Google Scholar <https://scholar.google.com/citations?user=vJQArFkAAAAJ&hl=en>

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- **Prof. Thieu N. Vo**

Assistant Professor at the University of Bath.
Department of Computer Science.

Email ntv22@bath.ac.uk

Google Scholar <https://scholar.google.com/citations?user=CM2qJSoAAAAJ&hl=en>

- **Prof. Baoru Huang**

Assistant Professor at the University of Liverpool.
Department of Computer Science

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