

TRAN DINH DAI QUAN

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Education

National Taiwan University (NTU), Computer Science Taipei, Taiwan

- Incoming PhD student supervised by Prof. Winston Hsu.

Jan 2026 – present

National Chung Cheng University, Advanced Manufacturing Systems Chiayi, Taiwan

- Advisor: Prof. Van-Linh Nguyen

Jan 2024 – Jan 2026

Ho Chi Minh City University of Education, Mathematics Teacher Education Ho Chi Minh City, Vietnam

Jan 2018 – Jan 2022

Experience

National Chung Cheng University, Research Assistant Chiayi, Taiwan

Working on Monocular 3D Object Detection and Voice Deepfake Detection.

Jan 2024 – present

- Propose a Shape-aware Foreground Depth Map and Depth Adaptive Weight for MonoDETR.

2 years 2 months

- Authored "Saw-MonoDETR", accepted to ICIP 2025.

- Co-authored VDD: Voice Deepfake Detection, accepted to Signal, Image and Video Processing.

Yuan-Ze University, Research Intern Taoyuan, Taiwan

- Explore the challenges of monocular 3D object detection and incremental learning.

Nov 2023 – Dec 2023

2 months

National Chung Cheng University, Research Intern (TEEP) Chiayi, Taiwan

- Project Path Planning for Unmanned Aerial Vehicles (UAVs).

May 2023 – Aug 2023

4 months

- Co-authored "DragFly", accepted to VTC2024-Spring.

GMO-Z.com RUNSYSTEM JSC, AI Research Intern Ho Chi Minh City, Vietnam

- Developed Real-Time Face Smoothing using MediaPipe Face Mesh.

May 2023 – Aug 2023

4 months

- Customized YOLOv5 for checkbox detection in OCR, achieving F1 score > 90%.

Awards

NSTC Grant for Domestic Graduate Students Sept 2025

Tran Dinh Dai Quan

Best Presentation Award June 2025

Tran Dinh Dai Quan

NSTC Scholarship (International Internship Pilot Program) Nov 2023

Tran Dinh Dai Quan

MOE Scholarship (TEEP) May 2023

Tran Dinh Dai Quan

Publications

Saw-Monodetr: Shape-Aware Adaptive Weighted Transformer for Monocular 3D Object Detection

Source: ORCID

Dinh Dai Quan Tran, Thanh-Huy Nguyen, Vinh Quang Dinh, Ren-Hung Hwang, Van-Linh Nguyen

IGL-DT: Iterative Global-Local Feature Learning with Dual-Teacher Semantic Segmentation Framework Under Limited Annotation Scheme

Source: ORCID

Dinh Dai Quan Tran, Hoang-Thien Nguyen, Thanh-Huy Nguyen, Gia-Van To, Tien-Huy Nguyen, Quan Nguyen

Vdd: voice deepfake detection with three-channel acoustic representations and advanced split-attention networks

Source: ORCID

Khanh-Duy Cao-Phan, Quan Tran Dinh Dai, Van-Linh Nguyen

DragFly: Joint Threat Object Detection And UAV Trajectory Planning in Hostile Environments

Source: ORCID

Akkapatch Thouchamongkol, Hong-Yi Chen, Yan-Hao Wang, Quan Tran Dinh Dai, Van-Linh Nguyen

In-context Cross-Density Adaptation on Noisy Mammogram Abnormalities Detection

Source: ORCID

Huy T. Nguyen, Thinh B. Lam, Quan T. D. Tran, Minh T. Nguyen, Dat T. Chung, Vinh Q. Dinh

Skills

Research

Tools

Languages

Vietnamese

Native

English

IELTS 6.5

References

Prof. Van-Linh Nguyen (PhD)

Prof. Ren-Hung Hwang (PhD)

Dr. Dinh Quang Vinh (PhD)