

Quang-Tien Dam

damtien440@gmail.com | damtien444.github.io | linkedin.com/in/damtien444 | Osaka, Japan

EDUCATION

- Ritsumeikan University** Osaka, Japan
• *Master of Advance Information Science and Engineering; GPA: 4.45/5* September 2023 - September 2025
Thesis topic: Learning to Express Pain
Advisor: Prof. Joo-Ho Lee
- University of Danang - University of Science and Technology (DUT)** Danang, Vietnam
• *Bachelor of Engineering in Information Technology; GPA: 3.79/4* September 2018 - April 2023
Thesis topic: Flood Segmentation
Advisor: Dr. Khanh-Duy Ninh

PUBLICATION

- **Q. T. Dam**, T. T. N. Nguyen, D. T. Tran, and J. H. Lee, "PainDiffusion: Learning To Express Pain," in *2025 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2025)*, Best Paper Award Finalist (top 2% of 1991 papers).
- **Q. T. Dam**, T. T. N. Nguyen, D. T. Tran, and J. H. Lee, "Finite Scalar Quantization as Facial Tokenizer for Dyadic Reaction Generation," in *2024 IEEE International Conference on Automatic Face and Gesture Recognition (FG)*, 2024.
- **T. Q. Dam**, N. T. Nguyen, T. V. Le, T. D. Le, S. Uwizeyemungu, and T. Le-Dinh, "Visualizing Portable Executable Headers for Ransomware Detection," *Journal of Universal Computer Science*, 2024.
- **T. Q. Dam**, D. K. Ninh, A. N. Le, V. D. Pham, and T. D. Le, "Danaflood: A Solution for Scalable Urban Street Flood Sensing," in *International Conference on Intelligent Systems and Networks*, 2023, pp. 767-777.

RESEARCH EXPERIENCE

- Research Student** Osaka, Japan
• *Advanced Intelligent System Lab* September 2023 - September 2025
 - **PainEditing**: Developed a generative model enable facial motion editing with textual and video guidance with flow matching model.
 - **PainDiffusion**: Worked on real-time pain expression synthesis system for nursing training robots using temporal-expandable conditional Diffusion Models.
 - **Facial Tokenizer**: Proposed a facial tokenization method for dyadic reaction generation, achieving state-of-the-art performance in the Multiple Appropriate Facial Reaction Generation Challenge at FG2024.
- Research Student** Danang, Vietnam
• *NETSEC-ITDUT Research Group* September 2021 - April 2023
 - **Ransomware Detection**: Implemented a pre-processing technique to enhance malware classification accuracy by adding PE Header information to grayscale image representations of MS Windows computer programs.

WORKING EXPERIENCE

- AI Engineer** Danang, Vietnam
• *FTECH CO., LTD* July 2022 - July 2023
Implemented model-based approach for layout analysis in document digitalize system. Achieved 78% accuracy in the private test set. Built an active learning pipeline to reduce annotation costs by 4.6x with entropy uncertainty ranking method.
- Data Engineer Intern** Danang, Vietnam
• *Neurond Technology JSC.* January 2022 - April 2022
Implemented data warehouse using SSIS, SQL and daily batch report using Power BI.

HONORS AND AWARDS

- First Prize in the Multiple Appropriate Facial Reaction Generation Challenge, IEEE FG 2024 2024
- Japanese Government (MEXT) Scholarship for Master's Degree 2023
- Best Paper Award, Student Scientific Research Conference at DUT 2022, 2023
- Second Prize, Science-A-Thon Competition at Vietnam Summer School of Science 2022
- Vallet Merit Scholarship by Rencontres Du Vietnam (US\$1200) 2022

- Murata Scholarship (US\$600) 2021, 2022
- First Prize (Team), Maker to Entrepreneur Program by ASU, DOW Vietnam and USAID Vietnam 2020
- Dean's List at Danang University of Science and Technology 2018–2019, 2019–2020, 2020–2021

SKILLS

Programming: *Python (Pytorch, Pytorch Lightning, WandB), Linux*

Languages: *English (IELTS 8.0), Vietnamese (Native)*

TUTORING

- **Object Oriented Analysis, Design and UML** Osaka, Japan
Ritsumeikan University
 Assisted in-class teaching activities.
April 2025 - July 2025
- **Project Based Learning in Microprocessing** Danang, Vietnam
The University of Danang - University of Science and Technology
 Advised students in their projects, including hardware and software design, and implementation.
September 2022 - April 2023
- **Summer Homeschool Science Class** Danang, Vietnam
Private Class
 Taught science methodology and conducted simple physics experiments to students in grades 3-5 to help them understand the scientific method. Class size of 10-15 students.
June 2019 - August 2019

ADDITIONAL EXPERIENCE

- **Paper Reviewer**
 ICRA 2025, SII 2025, IROS 2025
- **Junior Hiker**
 Hiked famous mountains in the Kansai region of Japan, including the legendary Kumano Kodo trail (60 km) and Mount Daisen in Tottori (960 m elevation gain).
- **Club President** Danang, Vietnam
Danang Astronomy Club, University of Danang
 2019 - 2021
 Organized events and activities to promote astronomy outreach in the community, including seminars on telescopes, the life cycle of stars, basic stargazing, and astronomical observations at schools and public venues. Also hosted astronomy camping events for students and local residents. Managed the club's schedule and human resources.

REFERENCE

- **Dr. Joo-Ho Lee** Ritsumeikan University, Japan
Professor
leejooho@is.ritsumei.ac.jp
- **Dr. Khanh-Duy Ninh** DUT, Vietnam
Head of Department of Embedded Systems, IT Faculty
nkduy@dut.udn.vn