# Dang Viet Anh (Andrew) Nguyen

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## Education

**2023 - Present**   **PhD Student in Intelligent Transportation Systems**, Technical University of Denmark (DTU)
Project title: Proactive traffic control through AI and Big Data
Supervisors: Filipe Rodrigues, Carlos Lima Azevedo

**2021-2022**   **MSc. Supply Chain and Logistics**, Nanyang Technological University (NTU)
Thesis title: Two-echelon Vehicle Routing Problem for Post-disaster Aid
Advisor: Assoc. Prof. Rajesh Piplani

**2015-2020**   **BE in Transportation Engineering**, Hanoi University of Civil Engineering (HUCE)
Vietnam Student Olympiad on Mechanics, Third Prize awarded by Vietnam Association Mechanics
Student with Five Good Merits at Central Level awarded by Vietnam Student's Association, Vietnam

## Employment

**2022-2023**   **Research Engineer in Intelligent Systems and Optimization**, Singapore Management University (SMU)
Project title: "E-waste must never be wasted: Vehicle Route Planning Optimization for E-Waste Collection."

**2020-2021**   **Research Assistant**, Transportation and Traffic Simulation Lab (TTS), HUCE
Project title: Optimization Models for Urban Freight Distribution

## Publications

**Nguyen, D. V. A.**, Flensburg, J. V., Cerreto, F., Pascariu, B., Pellegrini, P., Azevedo, C. L., & Rodrigues, F. (2024). Large-scale demand prediction in urban rail using multi-graph inductive representation learning (Submitted).

**Dang Viet Anh Nguyen**, Rajesh Piplani and Aldy Gunawan. Two-echelon covering tour vehicle routing problem for post-disaster aid.(Under review).

**Dang Viet Anh Nguyen**, Aldy Gunawan, Mustafa Misir and Pieter Vansteenwegen. Deep Reinforcement Learning for Solving the Stochastic E-Waste Collection Problem. European Journal of Operational Research, 2025

**Dang Viet Anh Nguyen**, Aldy Gunawan, Mustafa Misir and Pieter Vansteenwegen (2024). Q-learning Based Framework for Solving the Stochastic E-waste Collection Problem. Accepted in 24th European Conference on Evolutionary Computation in Combinatorial Optimisation (EvoCOP2024).

Aldy Gunawan, **Dang Viet Anh Nguyen**, Pham Kien Minh Nguyen and Pieter Vansteenwegen (2023). Efficient GRASP solution approach for e-waste collection route planning problem. ICCL 2023 - 14th International Conference on Computational Logistics.

A. Gunawan, **D.V.A. Nguyen**, P.K.M. Nguyen, and P. Vansteenwegen, "GRASP based Metaheuristic to solve the Mixed Fleet E-waste Collection Route Planning Problem", proceedings of the 17th International Congress on Logistics and SCM Systems (ICLS 2023), 9 - 12 August 2023, Seoul, South Korea - abstract

Aldy Gunawan, Pham Kien Minh Nguyen, Vincent F. Yu and **Dang Viet Anh Nguyen**. The heterogeneous vehicle routing problem with multiple time windows for the e-waste collection problem. IEEE CASE 2023 - 19th International Conference on Automation Science and Engineering.

A. Gunawan, S. L. Hoe, X. Y. Lim, L. C. Tran and **D. V. A. Nguyen**, "ExploreLah: Personalised and Smart Trip Planner for Mobile Tourism," 2023 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Singapore, Singapore, 2023, pp. 0923-0927, doi: 10.1109/IEEM58616.2023.10406555.

## Teaching, Tutoring and Supervison

**Introduction to Operations Research**, Teaching Assistant, Technical University of Denmark
**Advanced Business Analytics**, Teaching Assistant, Technical University of Denmark
**Introduction to Business Analytics**, Teaching Assistant, Technical University of Denmark

Master's student supervison: Damien Fleutry
Thesis title: Deep Reinforcement Learning for Traffic Signal Control: Adapting the framework for SimMobility

## Professional Sevices and Activities

Member          INFORMS - The Institute for Operations Research and the Management Sciences
                SIAM - Society for Industrial and Applied Mathematics
                ACM - Association for Computing Machinery
                OR Society - The Operational Research Society

## Reviewer for Academic Journals

**European Journal of Operational Research (EJOR),** Elsevier
**Transportation Research Part C: Emerging Technologies (TRC),** Elsevier