

PHAM QUANG ANH

<https://quanganh1999.github.io/>

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EDUCATION

Bachelor of Computer Science (Honors Program)

2017 – 2021

University of Engineering and Technology - Vietnam National University, Hanoi

Vietnam

- GPA: 3.6/4.0 (First-Class Honours)
- Thesis grade: 10.0/10.0

RESEARCH INTERESTS

Operations Research, Vehicle Routing Problem, Metaheuristic, Integer & Dynamic Programming, Data Science

WORK EXPERIENCE

Research Intern

February 2018 – August 2019

ORLab

Vietnam

- Study Combinatorial Optimization, Operations Research, Metaheuristic, Artificial Intelligence
- Attend some optimization challenges.

Research Assistant

September 2019 – Present

ORLab

Vietnam

- Work in some industrial projects about healthcare, logistics, etc
- Train new members
- Study variants of the Vehicle Routing Problem.

PROJECTS AND RESEARCH

ROADEF/EURO Challenge 2018

February 2018 – June 2019

ORLab

- Optimization problem: Two-dimensional bin-packing problem with defect constraints
- Supervisors: Dr. Ha Minh Hoang, Dr. Do Duc Dong
- Co-workers: Vu Duy Manh, Do Hoang Khanh
- Achieved **6th** rank in the qualification phase

VeRoLog Solver Challenge 2019 (September 2018 – June 2019)

September 2018 – June 2019

ORLab

- Optimization problems: scheduling, multi-trip vehicle routing problem, multi-depot vehicle routing problem
- Supervisor: Dr. Ha Minh Hoang
- Co-workers: Vu Duy Manh, Nguyen Huy Hoang
- Took **4th** rank at the final phase

O-HOS, A Hospital Staff Management System

September 2019–December 2020

ORLab

- Work as a BA and develop a model to deal with the nurse scheduling problem
- Receive the good feedback from customers.

Smart Logistics System

January 2021–Present

ORLab

- Research and design efficient AI algorithms for optimizing container and transportation operations.
- Implement, test and integrate the solutions into the system.

HONORS AND AWARDS

Champion of PROCON Vietnam 2019

December 2019

Our team built a program using AI that outperformed other teams in the competition

The Dean's list

Fall 2020

Semester GPA above 3.9 at University of Engineering and Technology

PUBLICATIONS

[1] A hybrid genetic algorithm for the vehicle routing problem with roaming delivery locations.

Quang Anh Pham, Minh Hoang Ha, Duy Manh Vu, Huy Hoang Nguyen. *International Conference on Automated Planning and Scheduling (ICAPS)*, pages 297-306, 2022.

[2]The bike routing problem with energy constraints. (under review)

Yannis Ancelea, Quang Anh Pham, Minh Hoang Ha, Dante Ben Matellinia, Trung Thanh Nguyen.

SKILLS

Languages: Vietnamese (Native), English (IELTS: 7.0 (L: 7.0, R: 7.5, W: 6.5, S: 6.0))

Programming Languages: C++, Python (NumPy, Plotly, Pandas), Java

Tools: CPLEX, Overleaf, Git