Phan Duc Hung

hung.pd214903@sis.hust.edu.vn | +84 38 481 7628 | Hung Phan
Hung Phan | Hanoi

Educations

Hanoi University of Science and Technology (HUST) *Hanoi*
Integrated Master of Data Science *Sep 2025 – Dec 2026*
Bachelor of Data Science & Artificial Intelligence *Sep 2021 – Jul 2025*
Bachelor CPA: 3.61 / 4.0 | Thesis: 9.9 / 10

Tran Phu High School for Gifted Students *Haiphong*
Informatics Honors Class *Sep 2018 - Jun 2021*
CPA: 9.1 / 10.0

Publications

Pareto Front Grid Guided Multiobjective Optimization In Dynamic Pickup And Delivery Problem Considering Two-Sided Fairness *GECCO '25 (CORE A)*
Phan Hung, Bui Trong Duc, Tam Nguyen, Huynh Thi Thanh Binh

Alimentation Deep Multiple Optimal Ant Colony Optimization to solve Vehicle Routing Problem with Time Windows *GECCO '24 Companion*
Ha Minh Hieu, **Phan Hung**, Tran Duc Chinh, Van Duc Cuong, Dao Van Tung, Huynh Thi Thanh Binh

Adaptive Ant Colony Optimization for Solving Dynamic Vehicle and Drone Routing with Time Window Constraints Evolutionary Intelligence (Q2, IF: 2.6)
Phan Hung, Tam Nguyen, Huynh Thi Thanh Binh

Experiences

OLab, VinUni *VinUniversity*
Research Assistant *Nov 2025 – Present*

- Conduct research under the supervision of Professor Chu Thi Mai Hong on Bayesian Optimization and Structured Causal Models, focusing on the intersection between probabilistic modeling and causal inference.
- Contribute to writing and preparing manuscripts for submission to peer-reviewed AI and ML conferences.

Optimization Lab, BKAI *HUST*
Research Assistant *Sep 2022 - Present*

- Conduct research under the supervision of Professor Huynh Thi Thanh Binh, focusing on optimization problems in logistics, particularly the Vehicle Routing Problem with multi-objective and dynamic aspects.
- Develop and implemented state-of-the-art algorithms, contributing to scientific papers submitted to reputable journals and conferences.
- Managed and mentored students in conducting scientific research.

Conservation Center – GenAI Center, FPT.AI, FPT Corporation *FPT*
NLP Engineer Intern, AI Young Talent *Apr 2024 - Nov 2024*

- Contributed to develop FPT Knowledge Explore, a dialogue system designed to answer employee queries about company rules, integrating Retrieval-Augmented Generation (RAG) tools to enhance LLM information retrieval; the product is deployed in major banks across Vietnam.
- Developed Next-genAI Recruiter, a human resource management assistant system integrating voice bot and LLM for CVs analysis and applicant interactions via phone calls, earning a Top 10 position in the company hackathon.

School of Information and Communication Technology (SoICT) *HUST*
Teaching Assistance *Sep 2023 - Jan 2024*

- Delivered lectures on database concepts and assess student exercises.
- Assisted students in learning SQL and using Microsoft SQL Server Management Studio.

Awards

Best Presentation Award, SoICT Thesis Committee 2025

Second Prize, AI4Industry Hackathon 2025 - Hanoi University of Industry

Second Prize, Numerical Global Optimization Competition on GNBG-II generated Test Suite - GECCO '25

Second Prize, LLM-designed Evolutionary Algorithms - GECCO '25

Second Prize, Scientific Research Student Conference 2025 - HUST

Second Prize, SoICT Hackathon 2024 Track TIKI: Container Shipping Route Coordination

Second Prize, Global Project Competition - Gangwon Regional Innovation Platform x SoICT

Third Prize, Scientific Research Student Conference 2024 - HUST

Scholarships

EVN Scholarship
Scholarship for excellent students, awarded by Vietnam Electricity (EVN).

Vietcombank Scholarship
Scholarship for excellent research results from Vietcombank.

FPT Smart Cloud Young Talent Scholarship
Top 15 among over 400 applicants awarded scholarship in the Young AI Talent program.

Academic Achievement Scholarship
Excellent scholarship in Data Science major for top 4% students.

Preprints

Pareto-Grid-Guided Large Language Models for Fast and High-Quality Heuristics Design in Multi-Objective Combinatorial Optimization
Ha Minh Hieu[*], **Phan Hung**[*], Tung Doan, Dao Tung, Dao Tran, Huynh Thi Thanh Binh

MCAS: Multi-Constraint Neural Ant Colony System for Vehicle Routing with Time Constraints
Ha Minh Hieu, **Phan Hung**, Dao Van Tung, Tran Duc Chinh, Van Duc Cuong, Dao Tran, Huynh Thi Thanh Binh