



HAI NAM PHAM

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EDUCATION

07/2024 - Current | Master's degree | Interdisciplinary Approaches of Research and Education (AIRE) - Digital Sciences
Learning Planet Institute | Université Paris Cité, Paris, France - Current GPA: 15.84/20

08/2021 – 08/2024 | Bachelor's Degree | Data Science
University of Science and Technology of Ha Noi (USTH), Vietnam - Final GPA: 14.90/20

08/2017 – 08/2020 | Bachelor's Degree | Pharmacological, Medical and Agronomical Biotechnology
University of Science and Technology of Ha Noi (USTH), Vietnam - Final GPA: 14.09/20

HONOURS AND AWARDS

SMARTS-UP EXCELLENCE SCHOLARSHIP for Master's degree **2024** by Université Paris Cité, France
Second Rank group idea in USTH Inno-Inspiration **2023** and **First Prize** of Group idea in USTH-20 competition in **2019**
Second Prize Plant-Based Products project idea in developing Start-up ideas in **2023**
SCHOLARSHIP 25% for USTH distinct students in **2017**

ACADEMIC ACTIVITIES

Research Intern **03/2025 – Current**
Laboratoire Interdisciplinaire des Sciences du Numérique (LISN - CNRS), Orsay, France

Topic: StandByMe

+ Virtual Reality (VR), ChatGPT integration VR, Project Execution

Research Member - Alpha Data Academy, Vietnam **09/2024 – Current**

Topic: Multi-modal OCR Speech

+ Optical Character Recognition (OCR) and Automatic Speech Recognition (ASR)

Research Assistant - Institute of Natural Products Chemistry - VAST, Vietnam **08/2019 – 02/2020**

Topic: Docking studies of chemical constituents from Cannabis Sativa for potential Antimalarial activities

+ Autodock vina, (PyRx), Autodock4 (Cywin) and Gold, LigPlot, Maestro, PyMol, and Discovery Studio.

Analysis Intern - Alpha Coach Technology and Science Company Limited, Vietnam **06/2023 – 11/2023**

Research Assistant - ICT laboratory – USTH, Vietnam **09/2022 – 03/2024**

Topic: Calorie Estimation in Vietnamese Food Ingredients Recognition Model (Second Prize Competition)

+ FoodSAM, Yolov8, Natural Language Processing (CLIPS), Semantic, Instance and Panoptic Segmentation.

Topic: A Real-Time Attendance Check Model employing Deep Learning Facial Recognition

+ Face Detection, Alignment and Recognition: YuNet, ResNet34 and Support Vector Machine (SVM)

Research Intern - Life Sciences laboratory – USTH, Vietnam **03/2020 – 08/2024**

Thesis: Evaluation of the correlation between heavy metal levels – secondary metabolite contents, and antioxidant activity of Pteris Vittata plants using multivariate analysis. (GPA: 15.6/20)

+ TPC, TFC, Antioxidant activities, Correlation identification, R

Thesis: Pre-processing and processing data acquired from liquid-chromatography coupled with mass spectrometry for metabolomics comparison between Vietnamese healthy controls and patients with colorectal cancer. (GPA: 16.1/20)

+ UPLC-QToFMS, biomarker identification, PCA, PLS-DA, Random Forest, T-test, Python, R

SKILLS

Language

Vietnamese (mother tongue), English (B2), French (B1)

Specializations

Python, R, C#, Machine learning, Deep learning, Pharmacology

CERTIFICATIONS

Academic Certificates

- + HarvardX: *Professional Certificate* for **Data Science and Machine Learning**
- + HarvardX: *Professional Certificate* for **Data Analysis for Life Sciences**
- + HarvardX: *XSeries Certificate* for **Fundamentals of Neuroscience**
- + Google **Advanced Data Analytics** on Coursera
- + Google **AI Essentials** on Coursera

Extracurricular Activities

- + Certificate for Volunteer and Charity Activities Participation in 2022
- + The Fourth Prize Certificate in Energized Entrepreneurship Workshop in 2020
- + Certificate in new strategies in medical diagnosis and personalized medicine in 2018
- + Certificate for "Gender Empowerment in STEM" by UNESCO in 2018

RECOMMENDATIONS

Mahendra Mariadassou, Ph.D | Email: mahendra.mariadassou@inrae.fr
INRAE MaIAGE, France

Chloé Berland, Ph.D | Email: berland.ch@gmail.com
Université Paris Cité, France

PUBLICATIONS

Quan, Pham Minh, Huong, Le Thi Thuy, Toan, Tran Quoc, Hung, Nguyen Phi, **Nam, Pham Hai**, Kiet, Ngo Tuan, Ha, Nguyen Xuan, Le, Dang Thi Thanh, An, Ton Nu Thuy, Show, Pau Loke and Thi, Hai Ha Pham. "*Cannabis sativa L. chemical compositions as potential plasmodium falciparum dihydrofolate reductase-thymidinesynthase enzyme inhibitors: An in silico study for drug development*" *Open Chemistry*, vol. 19, no. 1, **2021**, pp. 1235-1241. <https://doi.org/10.1515/chem-2021-0102>

Le, Diep. Tien., Nguyen, Lien. Ngoc., & **Pham, Nam. Hai.** (2023). *Applications and Trends of Digital Transformation in Pharmaceutical Development*. In E. A. Technology, National scientific conference: "Orientation of university teaching, scientific research and technology transfer in the digital era, East Asia University of Technology. ISBN: 978-604-393-977-4 (775-762).

Le, Mau Minh Phuc, **Pham, Hai Nam**, & Le, Tien Diep (2024). *Drug Discovery and Artificial Intelligence Applications in Preclinical Development and Pharmaceutical Research*. Định hướng Giảng dạy Đại học, Nghiên cứu Khoa học và Chuyển giao Công nghệ trong Kỷ Nguyên số, East Asia University of Technology. ISBN 978-604-492-928-6, (527-537).

Pham, Hai Nam, & Nguyen, Huong Giang (2024). *Metabolomics Analysis for Fecal Samples with Colorectal Cancer in Vietnam*. Định hướng Giảng dạy Đại học, Nghiên cứu Khoa học và Chuyển giao Công nghệ trong Kỷ Nguyên số, East Asia University of Technology. ISBN 978-604-492-928-6, (621–630).

Nguyen PN, Nguyen NL, **Pham HN**, Nguyen PK, Nguyen Thi KO. Antioxidant and Antibacterial Activities of Pteris vittata L. Extracts from Metalliferous Soils: Correlations with Phenolic Compounds. *Natural Product Communications*. **2025**;20(2). doi:10.1177/1934578X251322868