



An Hung Nguyen

COMPUTER SCIENTIST / AI RESEARCHER

Danang, Vietnam

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Personal Profile

I am an IT student, who loves AI and Data Research and want to get experience in data analytics, and mathematics research. I have experience in applying AI to process medical or agricultural problems from projects and research with science labs in global and Vietnam.

Education

Danang University of Science and Technology

Danang, VN

Student, Information Technology/Computers

August 2021 - Current

- **Grade:** 21TDT
- Working as an AI Researcher with Minh Tuan Pham PhD.
- **Courses:** Data Science, Programming for Data Science, Knowledge Representation and Reasoning, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning

Le Quy Don upper-secondary school for the gifted

Quang Tri, VN

High School

August 2018 - June 2021

- **Grade:** Informatics class
- Specialised in Biology, Informatics, and Mathematics with Computer Science

Work Experience

Quh-Lab Tierarzt Martin Frettlöh

Siegen, Germany

Computer Scientist

Apr 2022 - Present

- Collaborated with an AI team to develop neural network architectures to detect and segment animal pathogens.
- Developed scripts and applications to automatic and handling data.
- Automated and optimized the data handling process for signal, working with Linux distro did shell scripting, and employed other Linux tools
- **Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, C++, Ubuntu Linux, Linux tools, Apt, Scripting, Git.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.
- **Research Skills:** Medical Research, Data Analysis, Data Engineering

Certifications

Quaternion Convolutional Neural Networks for Image Depth Estimation

Vietnam

Vietnam Student Science Research and Innovation 2022 - 2023 (4th prize)

Dec 2023

The 4th place award in the computational Biology and Bioinformatics

Vietnam

Vietnam National Secondary Student Science and Engineering Fair

March 2021

The 3rd prizes in the exam to select students with excellent high school culture

Vietnam

Quang Tri Department of Education and Training

Jan 2020

Publications

Enhancing Convolutional Neural Network Architectures with Long Short-Term Memory for Improved Image Classification

Danang, Vietnam

IEEE: Institute of Electrical and Electronics Engineers

November 10-11, 2023

- An Hung Nguyen, Minh Tuan Pham
- 10.1109/ATI59969.2023.10364368)

Quaternion Convolutional Neural Networks for Depth Estimation

IEEE: Institute of Electrical and Electronics Engineers

- An Hung Nguyen, Cao Duy Hoang, Dang Hoang Phu Phan, Minh Tuan Pham
- <https://doi.org/10.1109/SCISIS55246.2022.10002074>

Mie, Japan

January 4, 2023

Weight Initialization for Complex Number Convolutional Neural Networks Using Genetic Algorithms

Journal on Information Technologies and Communications

- Minh Tuan Pham, An Hung Nguyen
- <https://doi.org/10.32913/mic-ict-research-vn.v2022.n1.1054>

Vietnam

June 30, 2022

Efficient Complex Valued Neural Network with Fourier Transform on Image Denoising

ACM: Association for Computing Machinery

- Minh Tuan Pham, Van Quang Nguyen, Cao Duy Hoang, An Hung Nguyen
- <https://doi.org/10.1145/3508072.3508081>

Dubai, UAE

December 16, 2021

Skills

Programming C/C++, Python (Pandas, PyTorch, NumPy, Scikit-learn. etc), Java, dot NET, SQL.

Miscellaneous Linux, Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown), Microsoft Office, Git, Arduino, MCU microcontroller.

Soft Skills Time Management, Teamwork, Leadership, Problem-solving, Documentation, Engaging Presentation.

Top honors and awards

Dec 2023 **Third prize**, University-level Student Scientific Research and Innovation

Vietnam

Dec 2023 **First prize**, Faculty level Student Scientific Research and Innovation

Vietnam

Dec 2023 **4th prizes**, Vietnam Student Science Research and Innovation

Vietnam

Jun 2023 **3rd prizes**, Faculty level Student Scientific Research and Innovation

Vietnam

Mar 2022 **2nd prizes**, Faculty level Student Science Research and Innovation

Vietnam

Aug 2021 **Second prize (ranked 1st)**, Innovative Generation 2021

Vietnam

Mar 2021 **4th prizes**, Vietnam National Secondary Student Science and Engineering Fair

Vietnam

Jan 2021 **4th prizes**, Select students with excellent high school culture Exam

Vietnam

Jan 2020 **3rd prizes**, Select students with excellent high school culture Exam

Vietnam

Languages

English Minimum Professional Proficiency

Vietnamese Native proficiency