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

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

Quaternion Convolutional Neural Networks for Depth Estimation   *Mie, Japan*

IEEE: Institute of Electrical and Electronics Engineers   *January 4, 2023*

- An Hung Nguyen, Cao Duy Hoang, Dang Hoang Phu Phan, Minh Tuan Pham
- https://doi.org/10.1109/SCISISIS55246.2022.10002074

Weight Initialization for Complex Number Convolutional Neural Networks Using Genetic Algorithms   *Vietnam*

Journal on Information Technologies and Communications   *June 30, 2022*

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

Efficient Complex Valued Neural Network with Fourier Transform on Image Denoising

Dubai, UAE

December 16, 2021

- Minh Tuan Pham, Van Quang Nguyen, Cao Duy Hoang, An Hung Nguyen

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

Mar 2022	**2nd prizes**, 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