# 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/ATiGB59969.2023.10364368)

**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*

ACM: Association for Computing Machinery  *December 16, 2021*

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

## Skills

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| **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

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| Jan 2024 | **Third prize**, University-level Student Scientific Research and Innovation | *Vietnam* |
| Jan 2024 | **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

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| **English** | Minimum Professional Proficiency |
| **Vietnamese** | Native proficiency |