

VAN TUAN LE

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Hanoi, Vietnam

EXPERIENCE

• NVIDIA

Applied Scientist

Dec 2024 - now

Hanoi, Vietnam

- **BioNeMo**: Enhanced Generative Models for Molecular Docking - [DiffDock](#).
 1. Expand and diversify training data.
 2. Improve model performance and generalization by training/retraining DiffDock on the augmented dataset.
 3. Explore architectural and algorithmic enhancements.
- Manager: [Van Ha Tang](#), PhD

• Samsung SDS

AI Research Engineer

Feb 2023 - Nov 2024

Hanoi, Vietnam

- Researched and developed a Text-editing Diffusion model to modify some text areas with other contents, so that maintain the original style with the realistic appearance.
- Researched, developed and deployed a Visual information extraction model to accurately categorize entities and match them as key-value pairs in documents, which achieved a long-term contract with Singaporean customers and some business opportunities.
- Researched and deployed the precise Optical Character Recognition (OCR) system that covered many different types of documents.
- Manager: Principal Engineer [Nguyen Minh Tri](#), PhD

• VinBrain JSC

Applied Scientist

Feb 2022 - Dec 2022

Hanoi, Vietnam

- Contributed on Computer-Aided Diagnosis solution to determine liver cancer by analyzing Vietnamese abdomen multi-phases CT images:
 1. Researched and developed AI model to classify phase for the multi-phases dynamic CT images, achieving over 95% classification's accuracy on the real data.
 2. Researched and Developed AI model to segment hepatic region for the multi-phases dynamic CT images.
 3. Reviewed the model's results on the production to evaluate the real performance and take necessary measures.
- Advisor: [Soan T.M. Duong](#), PhD

• VinBigdata Institute

Technology Specialist

Sep 2021 - Jul 2022

Hanoi, Vietnam

- Completed courses in the AI Engineer Training Program, including Python, Linear Algebra, Probability and Statistics, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, AI Ethics.
- Led a team with 4 members to complete 3 projects:
 1. Ventilator Pressure Prediction
 2. Semi-supervised Semantic Segmentation
 3. Detect and suggest corrections in Vietnamese documents

• iBME Lab

Research Assistant

Jan 2017 - Jan 2023

Hanoi, Vietnam

- Developed a machine learning model to quantitatively evaluate the balance disorder patient through the central point of mass.
- Designed IoT system to monitor environmental factors in the library.
- Developed image processing solution to collect and extract data from balance disorder patients based on image processing algorithm.
- Authorship of 2 research papers published on journals.
- Advisor: [Tran Vu](#), PhD

EDUCATION

- **Hanoi University of Science and Technology**
Bachelor of Engineering in Electronics and Telecommunications
◦ CGPA: 3.62/4.00 (equivalent to 90.5%)

Sep 2016 - Aug 2021

Hanoi, Vietnam

PUBLICATIONS

- [C.1] Huyen Nguyen*, **Tuan Le***, Kim-Loc Nguyen, Yuxing Peng, Emine Kucukbenli, Mai Thi Hien, Steven Truong, and Van Ha Tang. **Scaling Pocket Docking with Data Augmentation and Heterogeneous Equivariant Graph Attention**. *The Workshop on Generative and Agentic AI for Biology (ICML 2026)*.
- [J.1] Luong, Manh-Tu, Khanh Huyen Thi Pham, Nhat-Hai Nguyen, **Van-Tuan Le**, Phu Tran Vinh Pham, Tan Khanh Nguyen, and Thi-Thu Nguyen, **"FRAIL: fragment-based reinforcement learning for molecular design and benchmarking on fatty acid amide hydrolase 1 (FAAH-1)"**, *Molecular Diversity* (2026): 1-14.
- [J.2] Anh Vu Tran, Quang Huy Hoang, **Van Tuan Le**, Thi Viet Huong Pham, **"A novel fast-qualitative balance test method of screening for vestibular disorder patients"**, *The Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 25, No. 2, 2022.
- [J.3] Anh Vu Tran, Quang Huy Hoang, Anh Tu Nguyen, **Van Tuan Le**, Viet Khanh Le and Thi Viet Huong Pham, **"The models of Relationship Between Center of Gravity of Human and Weight, Height and 3 body's indicators (Chest, Waist and Hip)"**, *Journal of Science & Technology technical Universities*, 2019.

SKILLS

- **Programming Languages:** Python, Matlab, C/C++
- **Software Development:** Git, Docker, Linux, Slurm
- **Deep Learning & Machine Learning:** PyTorch, NumPy, Pandas, Scikit-Learn, OpenCV
- **Deep Learning Applications:** Image Classification, Image Segmentation, Optical Character Recognition, Key Information Extraction, Relation Extraction, Generative Artificial Intelligence, Molecular Docking
- **Academic Research:** Conducting Literature Review, Writing Research Proposals, Publications

HONORS AND AWARDS

- **Certificate of Excellent Graduate Student** Aug 2021
Hanoi University of Science and Technology
- **Best Thesis Presentation Award** Aug 2021
Hanoi University of Science and Technology
- **Certificate of Teaching Assistantship** Feb 2021
Hanoi University of Science and Technology
- **Scholarship "Ho Tro Hoc Tap 20192"** Oct 2020
Hanoi University of Science and Technology
- **Top 6 in "Sang tao tre 2019 [Youth Innovation 2019]" – "Smart up for life"** Dec 2019
Hanoi University of Science and Technology & VNPT
- **Scientific Research Student Award** May 2019 & May 2021
Hanoi University of Science and Technology

LANGUAGES

- **English:** Fluent (IELTS 6.5)
- **Vietnamese:** Mother-tongue

REFERENCES

1. **Dr. Vu Anh Tran**
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Hanoi University of Science and Technology
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Phone: +84-944-639-471
Relationship: Project Supervisor
2. **Dr. Soan Thi Minh Duong**
Lecturer, Department of Computer Science
Le Quy Don Technical University
Email: soanduong@lqdtu.edu.vn
Phone: +84-983-588-613
Relationship: Mentor, Advisor