# Dung Vo

https://dungxibo123.github.io

Email : dung.vo@wayne.edu
Mobile : +84-789420124


## Education

- **Wayne State University** — Detroit, MI, USA
  *Doctor of Philosophy in Computer Science* — *Aug. 2025*
- **Ho Chi Minh University of Science** — Ho Chi Minh City, Viet Nam
  *Bachelor of Science in Computer Science; GPA: 3.58* — *Aug. 2019 – May. 2024*

## Experience

- **Singapore Management University** — Singapore
  *Research Engineer* — *Mar 2024 - Jan 2025*
  - **Multi-agent System**: Enhancing the abilities of multi-agent system by leveraging the application of Large Language Model and utilizing the Instruction tuning and Fine-tuning
  - **Natural Language Understanding**: Research on the topic of Discovery intent and new intent via supervised learning and unsupervised learning or exploring new format for intention
- **Be Group JSC** — Ho Chi Minh City, Viet Nam
  *Data Scientist* — *Nov 2022 - March 2024*
  - **Dynamic Pricing:** Develop and deploy the dynamic pricing system for the balance between demand and supply in two of the largest cities in Vietnam. Increased company **GMV** by over 10%, **balanced demand and supply**, and improved service **conversion rates** from 10% to 25%. Enhanced trip completion rates from 5% to 40% depending on time and weather conditions
  - **Food Search:** Replaced the **ELK streaming system** by upgrading the **Debezium, Google Cloud PubSub** connection. The new proposed system reduces the delay data by 15 **times**. The new search strategy based on near real-time streaming service helps the business increase over 7% **completion rate** in production.
  - **Machine Learning System:** Designed and implemented systems for training, versioning, and deploying machine learning models, ensuring seamless integration and scalability.
  - **Identity and Eligibility Verification:** Developed a verification system to reduce unauthorized drivers by 10%. Reduced manual verification workload by 50%, leading to significant cost savings.
- **FPT Software** — Ho Chi Minh City, Viet Nam
  *AI Research Resident* — *May 2021 - Jun 2022*
  - **Neural Differential Equation:** Applied the result of Graph Neural Diffusion to discrete form and experiment on various datasets for deeper Graph Networks. Applying Stochastic term in to main equation of GRAND to solve the over-smoothing problem of GRAND
  - **Generalization Theory:** Working on understanding the Neural Tangent Kernel and double descent phenomenon when increasing the number of parameters in a deep networks

## Publications

- **Colloquial Singaporean English Style Transfer with Fine-Grained Explainable Control** — **ACL 2025 Main**
  *Jinggui Liang*, **Dung Vo**, *Hai Leong Chieu*, *Kian Ming A. Chai*, *Jing Jiang*, *Lizi Liao*
- **ConvINT: A User-centered Intention Framework for Conversational Understanding** — **U. Review**
  *Jinggui Liang*, **Dung Vo**, *Lizi Liao*
- **IntellectNavigator: Enhancing Search Tools with LLMs-Powered Query Instruction** — **WWW'24**
  **Dung Vo**
- **From Vietnamese to English: Advancing VQA with Cross-Linguistic Mapping** — **SCIDOCA'24**
  **Dung Vo**, *Tung Le*, *Huy Nguyen*

## Awards

- **Top performer employee:** Achieve a top performance during the whole year at Be Group JSC — 2023
- **Gold Medal in Mathematics:** Top 10 in 30/4 Traditional Olympiad - Grade 10 — April, 2017
- **Silver Medal in Mathematics:** Top 50 in 30/4 Traditional Olympiad - Grade 11 — April, 2018

## Skills

- **Languages**: Python, C++, Bash, SQL
- **Technologies**: PyTorch, TensorFlow, Docker, Github, Linux, CI/CD, Kubernetes, Google Cloud Platform, Kafka, ElasticSearch, Airflow

## Links

- **Github:** https://github.com/dungxibo123 **Linkedin:** https://www.linkedin.com/in/votiendung/