









Ben Phan

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EDUCATION

 **National Cheng Kung University (NCKU)** Sep 2023 – Aug 2025
Master of Science in Computer Science

- Advisor: [Prof. Jung-Hsien Chiang](#)
- Vice President of the Vietnamese Student Association at NCKU (2024 - 2025)

 **Danang University of Science & Technology** Sep 2018 – Mar 2023
Bachelor of Engineering in Control Engineering and Automation

- Advisor: [Ph.D. NGO Dinh-Thanh](#)
- Class President (2019 - 2023)
- Vice President of the BK Maker Scientific Research Club (2021 - 2022)

RESEARCH INTERESTS

My research interests include Artificial Intelligence, Machine Learning, and Deep Learning, with applications in both Natural Language Processing and Computer Vision. I focus on optimizing Large Language Models (LLMs) and other deep learning architectures for efficient deployment on edge devices and servers, aiming to balance performance, scalability, and computational efficiency.

PUBLICATIONS AND SUBMISSIONS

[MyMy at SemEval-2025 task 9: A robust knowledge-augmented data approach for reliable food hazard detection](#)

Ben Phan, Jung-Hsien Chiang

Proceedings of the 19th International Workshop on Semantic Evaluation, an ACL Workshop, 2025
Best System at SemEval-2025 Task 9, ACL Workshop, Vienna, Austria.

[CAS: enhancing implicit constrained data augmentation with semantic enrichment for biomedical relation extraction and beyond](#)

Fang-Yi Su, Gia-Han Ngo, **Ben Phan**, Jung-Hsien Chiang

Journal of Database (Q1), 2025

[Optimized biomedical entity relation extraction method with data augmentation and classification using GPT-4 and Gemini](#)

Cong-Phuoc Phan, **Ben Phan**, Jung-Hsien Chiang

Journal of Database (Q1), 2024

[Probability Model with Ensemble Learning and Data Augmentation for Named Entity Recognition \(NER\) and Relation Extraction \(RE\) Tasks](#)

Cong-Phuoc Phan, Gia-Han Ngo, **Ben Phan**, and Jung-Hsien Chiang

Proceedings of the BioCreative VIII: Curation and Evaluation in the era of Generative Models, 2023
Ranked among the Top 3 overall in the BioCreative VIII Challenge 2023.

[Deep learning framework applied for predicting anomaly of respiratory sounds](#)

Dat Ngo, Lam Pham, Anh Nguyen, **Ben Phan**, Khoa Tran, Truong Nguyen

International Symposium on Electrical and Electronics Engineering (ISEE), 2021

EXPERIENCE

AI Researcher

Intelligent Information Retrieval Lab (IIR Lab), CSIE, NCKU

Tainan, Taiwan

Sep 2023 – Aug 2025

- Developing and refining RAG techniques for enhanced information retrieval.
- Investigating Graph-based RAG models to improve the accuracy and efficiency of retrieval.
- Exploring integration of Large Language Models with retrieval systems to enhance the quality of generated information.

AI Engineer

Vingroup Big Data Institute

Hanoi, Vietnam

Jun 2022 – Sep 2023

- Completed courses in Linear Algebra, Probability & Statistics, Machine Learning, Deep Learning, Generative Model, Computer Vision, Natural Language Processing, and AI Ethics.
- Developed Face ID, Car Parking, and Uncovered Truck detection for VinFast factories and VinHome, processing data from 2,000+ cameras using GStreamer, DeepStream, TensorRT, and Triton.
- Optimized and deployed computer vision models (QAT, PQT) for VinFast Smart Factory, improving AI performance in industrial automation.

AI Engineer Internship

FTECH CO., LTD

Danang, Vietnam

May 2021 – Jun 2022

- Gained foundational knowledge of AI, deep learning, and computer vision techniques.
- Acquired hands-on experience with cloud platforms such as Azure and AWS for deploying AI models and services.

Embedded Software Internship

Software Danang Center

Danang, Vietnam

May 2019 – Jun 2020

- Developed IoT-based tracking system for real-time bus movement monitoring in Danang.
- Gained proficiency in C, C++, and Linux environments through embedded software projects.

SKILLS

Computer Languages: Python, C++, C, Java, Bash, Linux.


Machine Learning Libraries: Pytorch, Tensorflow, Sklearn, Numpy, Triton, TensorRT, DeepStream, Gstreamer, Transformers, Langchain, LLMs, RAG.

Cloud & Tools: AWS & Azure, Docker, Git.

Languages: Vietnamese, English, Chinese.

ACHIEVEMENTS

- 🎓 NCKU Distinguished International Student Scholarship for Master's program. 2023 – 2025
- 🎓 Academic Excellence Scholarship (Top 5%) at UD - DUT for outstanding performance 2023
- 🎓 Vingroup AI Engineer Training Scholarship, selected for prestigious AI training program. 2022
- 🏆 Best System at SemEval-2025 Task 9, ACL Workshop, Vienna, Austria. 2025
- 🏆 Ranked among the Top 3 overall in the BioCreative VIII Challenge. 2024
- 🏆 Third Prize in USAID BUILD-IT & Dow Vietnam STEM. 2023
- 🏆 Second Prize in Science Research, UD - DUT. 2022

 Second Prize in BK-Techshow, UD - DUT.	<i>2022</i>
 Top 8 in Siemens Vietnam SIMATIC Digital Transformation Contest.	<i>2021</i>
 Top 6 & Creativity Award in ABU Robocon Asia-Pacific.	<i>2020</i>
 Third Prize in ViOlympic Math Competition.	<i>2016, 2017</i>
 Appropriate Technology Award, University of Tsukuba, Japan.	<i>2021</i>
 Amazon BUILD ON Hackathon, AWS ASEAN.	<i>2021</i>
 Certificate of Merit in COVID-19 Community Service Project.	<i>2020</i>
 Learning Express Program, Singapore Polytechnic Exchange.	<i>2019</i>

REFERENCES

Prof. Jung-Hsien Chiang

Distinguished Professor, Department of Computer Science and Information Engineering, NCKU.

Ph.D. NGO Dinh-Thanh

Lecturer at The University of Danang, University of Science and Technology.