


# Ben Phan

 [phanben110](#)  [phanben110.github.io](#)  [benphan110](#)  Google Scholar  
 [phanben110@gmail.com](mailto:phanben110@gmail.com)  +(886) 984-305-278  Tainan City, Taiwan

## EDUCATION

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 **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

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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

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**[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*

2nd Place in Subtask 1 and 2nd Place in Subtask 2, SemEval-2025 Task 9, ACL Workshop.

**[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

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### 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

*VinBigData*

*Hanoi, Vietnam*

*Nov 2022 – Sep 2023*

- Worked on the Camera AI project, developing Face ID, Car Parking, and Uncovered Truck detection for VinFast factories and VinHome, processing data from 2,000+ cameras with GStreamer, DeepStream, TensorRT, and Triton.
- Contributed to the VinFast Smart Factory project, focusing on computer vision, model optimization (QAT, PQT), and deployment using DeepStream, GStreamer, and TensorRT to enhance AI performance in industrial automation.

### Vingroup AI Engineer Trainee

*Vingroup Big Data Institute*

*Hanoi, Vietnam*

*Jun 2022 – Nov 2022*

- Completed courses in Linear Algebra, Probability and Statistics, Machine Learning, Computer Vision, Natural Language Processing, and AI Ethics taught by leading professors and experts.
- Developed essential soft skills, including teamwork, problem-solving, and effective communication, to complement technical expertise.

### 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.

## ACHIEVEMENTS

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### NCKU Distinguished International Student Scholarship

*2023 - 2025*

Awarded for Master's program

### Academic Excellence Scholarship (Top 5%) in UD - DUT

*2023*

Awarded for outstanding academic performance

### Vingroup AI Engineer Training Scholarship

*2022*

Selected for prestigious AI training program

### 2nd Place in Subtask 1 and Subtask 2, SemEval-2025 Task 9

*2025*

International Workshop on Semantic Evaluation, ACL 2025

### Third Prize in USAID BUILD-IT & Dow Vietnam STEM

*2023*

## ACHIEVEMENTS (CONTINUED)

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 <b>Second Prize in Science Research</b>	2022
Awarded by UD - DUT for excellence in scientific research	
 <b>Second Prize in BK-Techshow</b>	2022
Recognized for innovation in BK-Techshow, UD - DUT	
 <b>Top 20 &amp; Top 8 Digital Transformation</b>	2021
Siemens Vietnam SIMATIC contest for smart solutions (2021)	
 <b>Top 6 &amp; Creativity Award in ABU Robocon</b>	2020
Asia-Pacific Robot Contest for automation solutions	
 <b>Third Prize in ViOlympic Math Competition</b>	2016, 2017
 <b>Appropriate Technology at University of Tsukuba, Japan</b>	2021
 <b>Amazon BUILD ON Hackathon in AWS ASEAN</b>	2021
 <b>Certificate of Merit in COVID-19 Community Service Project</b>	2020
 <b>Learning Express Program Singapore Polytechnic Exchange</b>	2019

## LANGUAGES

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**Vietnamese:** Native

**English:** Advanced

**Chinese:** Intermediate

## SKILLS

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**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, Kubernetes.

**Soft Skills:** Leadership, Presentation, Teamwork, Problem-solving, Critical thinking, Design thinking.

**Hobbies:** Swimming, Volleyball, Running, Hiking.

## REFERENCES

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**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.