

# Pham Ngoc Quan

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[Homepage](#) | [Linkedin](#) | [Github](#)

## RESEARCH INTERESTS

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My research focuses on improving the reliability of foundation models, ranging from robust fine-tuning to inference-time scaling. I currently work on Sequential Monte Carlo methods for mathematical reasoning and Optimal Transport frameworks for hierarchical classification.

## EDUCATION

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**Hanoi University of Science and Technology | Hanoi, Vietnam** Sep 2021 - Present

- **Major:** B.S. in Data Science | **GPA:** 3.6/4.0
- **Relevant Courses:** Machine Learning, Natural Language Processing, Computer Vision, Math Modeling

**Thai Binh Gifted High School | Thai Binh, Vietnam** Sep 2018 - Sep 2021

- **Major:** Mathematics

## EXPERIENCE

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### Qualcomm AI Research

*Research Resident* Apr 2025 - Present

- **Advisors:** Prof. Dinh Phung, Dr. Tung Pham, Prof. Tan Nguyen
- **Research Project:** Test-Time Compute for LLM Reasoning, Hierarchical Classification

### VinAI Research

*Research Resident* Aug 2024 - Mar 2025

- **Advisors:** Prof. Trung Le, Prof. Tan Nguyen, Prof. Dinh Phung
- **Research Project:** Robust Machine Learning, Fine-tuning Foundation Models

### Human Speech and Text Processing Laboratory (HUST)

*Research Assistant* May 2023 - May 2024

- **Advisors:** Dr. Nguyen Thi Thu Trang
- **Research Project:** Speech Emotion Recognition, Speech Enhancement

## PUBLICATIONS

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### Promoting Ensemble Diversity with Interactive Bayesian Distributional Robustness for Fine-tuning Foundation Models (ICML 2025)

- **Ngoc-Quan Pham**, Tuan Truong, Quyen Tran, Tan Nguyen, Dinh Phung, Trung Le

### Improving Generalization with Flat Hilbert Bayesian Inference (ICML 2025)

- Tuan Truong, Quyen Tran, **Ngoc-Quan Pham**, Nhat Ho, Dinh Phung, Trung Le

### A Robust Pitch-Fusion Model for Speech Emotion Recognition in Tonal Languages (ICASSP 2024)

- Pham Viet Thanh, Ngo Thi Thu Huyen, **Pham Ngoc Quan**, Nguyen Thi Thu Trang

## HONORS & AWARDS

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### Third Prize in Vietnam Mathematical Olympiad, 2021.

- Issued by the Ministry of Education and Training.

### First Prize in National Startup Contest for Students - SV.STARTUP, 2023.

- Issued by the Ministry of Education and Training.

### Second Prize in SOICT Hackathon (AI-Powered BFIS track), 2023.

- Issued by Hanoi University of Science and Technology and BKAI.

## LANGUAGES

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- **Vietnamese:** Native
- **English:** Fluent, IELTS 7.0

## REFERENCES

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1. **Prof. Trung Le:** Senior Lecturer, Monash University  
Email: trunglm@monash.edu
2. **Prof. Dinh Phung:** Full Professor, Monash University  
Email: dinh.phung@monash.edu
3. **Prof. Tan Nguyen:** Assistant Professor, National University of Singapore  
Email: tanmn@nus.edu.sg
4. **Dr. Tung Pham:** Principal Researcher, Qualcomm AI Research  
Email: tungp@qti.qualcomm.com
5. **Dr. Nguyen Thi Thu Trang:** Senior Lecturer, HUST | Founder & CTO, Vbee AI  
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