Quang Hieu Pham

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Education

Hanoi University of Science and Technology (HUST)   *Aug 2019 – Aug 2023*
BS in Data Science

- Graduation GPA: 3.88/4.00
- Top (2/56) within DS major, top 7 within School of Information Technology.

Uppsala University (UU)   *Aug 2021 – Jan 2022*
Exchange Student at Department of Information Technology

Publications

[**Who's Who: Large Language Models Meet Knowledge Conflicts in Practice**](#) ⬈
Quang Hieu Pham, Hoang Ngo, Anh Tuan Luu, Dat Quoc Nguyen [EMNLP Findings 2024]

Honors & Awards

HUST's scholarship for excellent study results (3.91/4.00 GPA).	*Fall 2022*
HUST's scholarship for excellent study results (4.00/4.00 GPA).	*Spring 2022*
Erasmus+ Exchange Scholarship.	*Aug 2021*
Top 0.1% in Vietnam's national university examination (Math-Physics-English).	*Aug 2019*

Experience

AI Resident   *Aug 2023 – Current*
VinAI Research

- Primary focus: Large Language Models, Reasoning, Hallucination

Research Assistant   *Mar 2022 – Aug 2023*
Data Science Lab, HUST

- Vision-Language Models, Generative Adversarial Networks, Semantic Segmentation.
- Thesis: [Abnormal Event Recognition from Videos by Prompting Vision-Language models](#) ⬈.

Teaching Assistant   *Mar 2022 – Aug 2023*
HUST

- Courses: Machine Learning, Introduction to Data Science.

Data Scientist Intern   *Jul 2022 – Sep 2022*
Viettel Group

- Customer Segmentation and Churn Analysis for Banking and Telco data.

Projects

[*WhoQA: A Benchmark Dataset for Assessing LLMs' Ability to Handle Knowledge Conflicts*](#) ⬈

- Induce knowledge conflicts by asking about a common property among entities having the same name.
- Our experiments show that despite the simplicity of WhoQA's questions, knowledge conflicts significantly degrade LLMs' performance in RAG settings.

Text2SQL translation ⬈

- Finetune LLMs on Bird Benchmark.
- Combine data augmentation, schema filtering & column suggestion techniques.
- Yield 65.58% accuracy on the public dev set with a 9B model.
- Best VinAI Resident's applied project Q2 2024.

Skills

Programming Languages: Python, C++, C, Java, SQL

Technologies: PyTorch, Pandas, Numpy, SciKit Learn, Git, Scrum, LATEX, SQL

References

- **Asst. Prof. Anh Tuan Luu** ☒   Nanyang Technological University
  Head of NTU NAIL

- **Dr. Dat Quoc Nguyen** ☒   VinAI Research
  Head of the Natural Language Processing Department

- **Dr. Tung Pham** ☒   VinAI Research
  Machine Learning Research Scientist