

Hieu Trung Nguyen

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A results-driven AI Engineer with 3 years of experience specializing in:

- Deploying large-scale LLMs, integrating advanced multi-agent prompting and reasoning capabilities.
- Designing and building chatbots specifically tailored for the medical domain.
- Collecting data and training deep learning models for appearance-based eye gaze estimation.

EDUCATION

The Chinese University of Hong Kong	August 2024 - Present
<i>PhD Systems Engineering & Engineering Management</i>	
University of Information Technology (Vietnam National University - HCM)	April 2022
<i>Bachelors in Computer Science with Honour</i>	

EXPERIENCE

VinAI - Vingroup | *Senior Research Resident @ Machine Learning Group* Aug. 2022 – Jul. 2024
 Research in Recommender system, Continual Learning, Large Language Models, Optimization
 Applied Project (6 months): Eye Gaze Estimation - AI core for intelligent driver assistant system.
 Advisor: **Prof. Viet Anh Nguyen**

VinUni | *AI Research Engineer* Aug. 2023 – Dec. 2023
 Joint work with Hanoi Obstetrics & Gynecology Hospital, build an LLM-powered screening chatbot to develop the next generation of gynecological care
 Build the backend and main AI core for the chatbot to screen patient's profile and appointment booking
 In Collaboration with **Prof. Khoa Doan's** team

Team Computational Resources Coordinator Aug. 2023 – Present
 Responsible for researching, acquiring, setting up, maintaining, and managing the most suitable computational resources to support the research needs of a team of 20 members working on Deep Learning and Optimization.

PUBLICATION

Hieu Trung Nguyen, Bao Nguyen, Binh Nguyen, Viet Anh Nguyen, **Task-driven Layerwise Additive Activation Intervention** (Main conference - NAACL 2025)

Ngoc Bui, **Hieu Trung Nguyen**, Viet Anh Nguyen, Rex Ying, **Structure-aware Graph Explainer via Myerson-Taylor Interaction Index** (ICML 2024)

Bao Nguyen, Binh Nguyen, **Hieu Trung Nguyen**, Viet Anh Nguyen, **Generative Conditional Distributions by Neural (Entropic) Optimal Transport**, (ICML 2024)

Hieu Trung Nguyen, Duy Nguyen, Khoa D. Doan, Viet Anh Nguyen, **Cold-start Recommendation by Personalized Embedding Region Elicitation** (UAI 2024)

Hieu Trung Nguyen, Tran Dinh Khang, Ngoc Hoang Luong, **Combining Soft-Actor Critic with Cross-Entropy Method for Policy Search in Continuous Control** (IEEE CEC 2022 - Oral)

PREPRINT

Nghia D. Nguyen, **Hieu Trung Nguyen**, Ang Li, Hoang Pham, Viet Anh Nguyen, Khoa D. Doan, **Forget but Recall: Incremental Latent Rectification in Continual Learning** (under review)

AWARDS

Honour List (all academic years), UIT Global Awards, Best Bachelor thesis award, ICML 2024 Travel Grant

SKILLS

Languages: Vietnamese (Native), English (IELTS Academic 7.5)

Programming & Tools: Python, C, C#, Javascript, SQL, Vector Database, Git, Wandb