

DUY KHUONG NGUYEN

✉ [email](#) [website](#) [github](#)

Research Interests

My research interests lie in the intersection of model interpretability and robustness in machine learning. Lately, I have been focusing on post-hoc explanations, recommender systems, and large language models.

Research Experience

VinAI Research

Aug. 2021 – Present

Research Resident

Hanoi, Vietnam

- Advisor: Prof. Viet Anh Nguyen
- Research topic: Algorithmic Recourse, Recommender System, Distributionally Robust Optimization

Publications

Hieu Nguyen, **Duy Nguyen**, Khoa Doan, and Viet Anh Nguyen. Cold-start Recommendation by Personalized Embedding Region Elicitation. In *Conference on Uncertainty in Artificial Intelligence (UAI)*, 2024.

Duy Nguyen, Ngoc Bui, and Viet Anh Nguyen. Distributionally Robust Recourse Action. In *International Conference on Learning Representations (ICLR)*, 2023.

Duy Nguyen, Ngoc Bui, and Viet Anh Nguyen. Feasible Recourse Plan via Diverse Interpolation. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2023.

Ngoc Bui, **Duy Nguyen**, and Viet Anh Nguyen. Counterfactual Plans under Distributional Ambiguity. In *International Conference on Learning Representations (ICLR)*, 2022.

Tuan-Duy H. Nguyen, Ngoc Bui, **Duy Nguyen**, Man-Chung Yue, and Viet Anh Nguyen. Robust Bayesian Recourse. In *Conference on Uncertainty in Artificial Intelligence (UAI)*, 2022.

Preprints

Duy Nguyen, Bao Nguyen, and Viet Anh Nguyen. Cost Adaptive Recourse Recommendation by Adaptive Preference Elicitation. *Under Review*.

Ngoc Bui, **Duy Nguyen**, Man-Chung Yue, and Viet Anh Nguyen. Coverage-Validity-Aware Algorithmic Recourse. *Under Review*.

Bao Nguyen, Binh Nguyen, **Duy Nguyen**, and Viet Anh Nguyen. Semantically-Consistent, Distributional Intervention Policies for Language Models. *Under Review*.

Education

Hanoi University of Science and Technology

Sep. 2018 – Sep. 2022

Bachelor in Computer Science

Hanoi, Vietnam

- GPA: 3.65/4.0, Major GPA: 3.78/4.0
- Thesis: Multi-task calibration of Sensory Data with Generative Adversarial Networks

Honors and Awards

Honorable Mention - Undergraduate Operations Research Prize

Oct. 2022

INFORMS

Best thesis presentation award

Aug. 2022

School of Information and Communication Technology, HUST

Excellence Scholarship for the academic year

Sep. 2019

School of Information and Communication Technology, HUST

Professional Services

Reviewer at NeurIPS (2023, 2024), AISTATS (2022, 2023), UAI (2023), ACM FAccT (2023).

Technical Skills

Languages: Python, C/C++, Java

ML Frameworks: PyTorch, Tensorflow

Others: Git, Docker