Ngoc Bui

Hanoi, Vietnam · (+1) ***-***-**89
ngoc.bui@yale.edu · ngocbh.github.io

EDUCATION

•	Ph.D. in Computer Science	2023 – presen
	Yale University	

• M.S. in Data Science 2021 – 2023

Hanoi University of Science and Technology

- GPA: 3.9/4.0, Major GPA: 4.0/4.0.

• Engineer in Computer Science

Hanoi University of Science and Technology (HUST)

- GPA: 3.67/4.0, Major GPA: 3.88/4.0.
- Honors: Excellent (\approx 1st class honors).
- Thesis: A Deep Reinforcement Learning based Online Charging Scheme for Target Coverage and Connectivity in WRSNs.

PUBLICATIONS

- Duy Nguyen, Ngoc Bui, Viet-Anh Nguyen. "Feasible Recourse Plan via Diverse Interpolation". AIS-TATS, 2023.
- Duy Nguyen, Ngoc Bui, Viet-Anh Nguyen. "Distributionally Robust Recourse Action". ICLR, 2023.
- Ngoc Bui, Duy Nguyen, Viet-Anh Nguyen. "Counterfactual Plans under Distributional Ambiguity".
 ICLR, 2022.
- Tuan-Duy Hien Nguyen, Ngoc Bui, Duy Nguyen, Man-Chung Yue, Viet Anh Nguyen. "Robust Bayesian Recourse". UAI, 2022.
- Ngoc Bui, Phi Le Nguyen, Viet Anh Nguyen, Phan Thuan Do. "A Deep Reinforcement Learningbased Adaptive Charging Policy for WRSNs". IEEE MASS. 2022.
- Ngoc Bui, Tam Nguyen, Binh Huynh Thi Thanh, and Trong Vinh Le. "A phenotype-based multiobjective evolutionary algorithm for maximizing lifetime in wireless sensor networks with bounded
 hop". Soft Computing, 2023.

UNDER REVIEW

• **Ngoc Bui**, Duy Nguyen, Kim-Cuc Nguyen, Man-Chung Yue, and Viet-Anh Nguyen. "Covariance-Robust Minimax Probability Machines for Algorithmic Recourse". under review.

EXPERIENCES

• Research Resident

August 2021 - July 2023

2016 - 2021

Machine Learning group - VinAI Research

- Work under the supervision of Dr. Viet Anh Nguyen, focusing on Robust & Trustworthy ML, studying different paradigms of explanation methods for machine learning models and their robustness.
- Applied Rotation Project: Interactive Tool for 3D Point Cloud Segmentation.
- Research Assistant

December 2019 - June 2020

Data Science Lab - HUST

- Study the Vietnamese address standardization problem that recognizes and normalizes free-form addresses into a common standard format.

2

• AI Research Intern

July 2019 - October 2019

IBM Vietnam

- Applying PowerAI Vision to visual inspection problems in the car manufacturing process to detect dirt, and dust defects in the car body after painting.

AWARDS & HONORS

•	Honorable Mention in INFORMS Undergraduate Operations Research Prize.	2022
•	Best Thesis Presentation Award.	2021
•	Problem Winner in ASEAN-India Hackathon.	2021
•	Third prize in ACM/ICPC Asia - Ho Chi Minh Regional.	2017
•	Third prize in Vietnam Olympiad in Informatics.	2016

TEACHING

• Applied Algorithms classes, HUST

2019 - 2021

OPEN-SOURCE PROJECTS

• GeneticPython 2020

A simple and friendly Python framework for (multi-objective) genetic-based algorithms. *pypi*: https://pypi.org/project/geneticpython/

• SCOSS 2020 – 2021

SCoSS (Source Code Similarity System) is an automatic system for determining the similarity of source codes focusing on programming classes and competitive programming contests. pypi: https://pypi.org/project/scoss/

• Conmato 2020

A Command Line Interface (CLI) for Codeforces Management Tools that helps the coach to manage Codeforces groups, which is a platform to organize and run programming contests, easier. pypi: https://pypi.org/project/commato/

PROFESSIONAL SERVICES

• Reviewer at AISTATS 2022/2023, FaCCT 2023, UAI 2023, NeuRIPS 2023.