

Hieu Vu

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Website: <https://hieuvt29.github.io/>

RESEARCH INTERESTS

I am interested in machine learning methods for limited/corrupted supervision data, which is a common scenario due to the expensive labeling costs. Currently, I mainly focus on the techniques of Active Learning for fully exploiting annotated data; Bayesian Inference framework, Self-Supervised learning and Distributionally Robust Optimization for improving the robustness of ML models.

ACADEMIC BACKGROUND

Hanoi University of Science and Technology (HUST)

Excellence Degree of Engineer in Information Systems, CPA 3.63/4.0

Hanoi, Vietnam

Aug. 2014 – Mar. 2019

SELECTED AWARDS

Excellence scholarship for the academic year of 2018 – 2019

Granted for top 1% students with highest CPA of School of Information and Communication Technology, HUST

NOTABLE RESEARCH WORKS

Distributionally Robust Fair Principal Components via Geodesic Descents

**Hieu Vu, Toan Tran, Man-Chung Yue, Viet Anh Nguyen
preprint, 2021*

Bayesian Metric Learning for Robust Training of Deep Models under Noisy Labels

**Hieu Vu, Toan Tran, Gustavo Carneiro
preprint, 2020*

MAP Estimation With Bernoulli Randomness, and Its Application to Text Analysis and Recommender Systems

*Xuan Bui, *Hieu Vu, Oanh Nguyen, Khoat Than
IEEE Access, 2020*

RESEARCH EXPERIENCES

Research Resident

VinAI Research

Nov. 2019 – Present

Hanoi, Vietnam

- Supervisors: [Toan Tran](#) (Research Scientist, VinAI Research), [Viet Anh Nguyen](#) (Research Scientist, VinAI Research)
- Main research topics: Bayesian methods for Noisy Labels data, Active Learning, Domain Adaptation
- Gained Backgrounds: Linear Algebra, Statistic, and Generative Models, Robust Optimization

Undergraduate Research Assistant

Data Science Lab, School of Information and Communication Technology, HUST

Jun. 2017 – Jun. 2019

Hanoi, Vietnam

- Supervisors: [Khoat Than](#) (Associate Professor, HUST)
- Main research topics: Topic models
- Gained backgrounds: Linear Algebra, Topic modeling methods

INDUSTRIAL EXPERIENCES

Applied Rotation Program Resident

VinAI Research

Jun. 2021 – Sep. 2021

Hanoi, Vietnam

- Supervisor: [Binh-Son Hua](#) (Research Scientist, VinAI Research)
- Develop models to detect objects in 3D space, based on point cloud data
- Learned technologies: [MMDetection3d](#) framework

Software developer

VC Corporation

Jun. 2018 – Apr. 2019

Hanoi, Vietnam

- Develop recommendation system for news articles using ML models: RNN-based and CNN-based
- Build micro-service web server
- Learned technologies: Flask, Java-Jersey, Jetty framework, MySQL, Aerospike, Kafka

SKILLS

Spoken Languages: English (Fluent), Vietnamese (Native)

Programming Languages: Python, Java, JavaScript, and C/C++

Technologies: Web-based: HTML/CSS/JS, ExpressJS, ReactJS; Databases: MySQL, MongoDB, Aerospike