MINH PHAM

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EDUCATION

New York University, New York City, NY   2021 - Present
Ph.D. in Computer Science
Advisor: Dr. Chinmay Hegde

Worcester Polytechnic Institute, Worcester, MA   2014 - 2017
B.S. in Computer Science & B.S. in Mathematical Sciences
Advisor: Dr. Jacob Whitehill

EXPERIENCE

Research Assistant   Sep, 2021 - Present
New York University   *Brooklyn, NY*

- Research topics: Model Editing, Memorization, Robustness

Research Assistant   May, 2019 - May, 2021
Worcester Polytechnic Institute   *Worcester, MA*

- Research topics: Dataset Evaluation, Speaker Verification/Diarization.

PUBLICATIONS & PREPRINTS

(*) denotes equal contribution

Pham, M., Marshall, K., Hegde, C. "Circumventing Concept Erasure Methods For Text-to-Image Generative Models", 2023

Marshall, K., **Pham, M.**, Joshi, A., Balu, A., Jignasu, A., Krishnamurthy, A., Hegde, C. "ZeroForge: Feedforward Text-to-Shape Without 3D Supervision", 2023, *in submission*

Feuer, B., Joshi, A., **Pham, M.**, Hegde, C. "Distributionally Robust Classification on a Data Budget", *Transactions on Machine Learning Research, (TMLR)*, 2023

Pham, M.*, Cho, M.*, Joshi, A.* and Hegde, C. "Revisiting Self-Distillation", 2022

M., Joshi, **Pham, M.**, Cho, A. and Hegde, C. "Smooth-Reduce: Leveraging Patches for Improved Certified Robustness", 2022

Pham, M., Li, Z. and Whitehill, J. "Toward Speaker Embeddings: Automated Collection of Speech Samples from Unknown Distinct Speakers". *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2020

Pham, M., Li, Z. and Whitehill, J. "How Does Label Noise Affect the Quality of Speaker Embeddings?". *Conference of the International Speech Communication Association (INTERSPEECH)*, 2020

COURSES

Algorithmic Machine Learning & Data Science *CS-GY.6763*, Computer Vision *CSCI-GA.2271*, Foundations of Machine Learning *CSCI-GA.2566*, *Foundations of Deep Learning CS-GY.9963*, Information Visualization *CS-GY.6313*, Mathematical Statistics *DS-GA.1020*.

AWARDS & ACTIVITIES

NYU SOE Ph.D. Fellowship	Sep, 2021 - Dec, 2021
WPI University & International Scholarship	2017 - 2021
Google CSRMP	Oct, 2021 - Dec, 2021
Poster Presentation, WPI Works in Progress Undergraduate Research Symposium	Oct, 2019
Poster Presentation, "Toward Speaker Embeddings: Automated Collection of Speech Samples from Unknown Distinct Speakers", ICASSP 2020	May, 2020
Poster Presentation, "How Does Label Noise Affect the Quality of Speaker Embeddings?", INTERSPEECH 2020	Oct, 2020

SKILLS

Programming Skills	Python, Java, C++, SQL, R
Technologies	PyTorch, Tensorflow, Google Cloud, AWS, Git, Slurm

COURSE PROJECTS

A Fairness Metric for Equality of Resources: Efficiently Computing Stability
Lucas Rosenblat, Minh Pham

- Defined a new fairness metric called Stability, and proposed a randomized algorithm to calculate the proposed metric efficiently.

- Provided a theoretical analysis of the proposed randomized algorithm, and comparison with existing group/individual fairness metrics.

Machine Unlearning: A Survey
Feyza Duman, Anubhav Jain, Minh Pham

- Wrote a survey paper on unlearning algorithms for classical machine learning and deep learning.