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: Continual Learning, Memorization, Robustness

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

- Research topics: Dataset Evaluation, Speaker Verification/Diarization, Domain Adaptation

PUBLICATIONS & PREPRINTS

(*) denotes equal contribution

Pham, M., Marshall, K. and Hegde, C. "Circumventing Concept Erasure Methods For Text-to-Image Generative Models", *NeurIPS 2023 Workshop on Diffusion Models*

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

Saadati, N., **Pham, M.**, Jiang, Z., Balu, A., Waite, J., Saleem, N., Hegde, C. and Sarkar, S. "DIMAT: Decentralized Iterative Merging-And-Training in Deep Learning", 2023, *in submission*

Feuer, B., Joshi, A., **Pham, M.** and 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

Joshi, A., **Pham, M.**, Cho, M. 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

GRADUATE COURSES

DS-GA.1011 Natural Language Processing, *CS-GY.6763* Algorithmic Machine Learning & Data Science, *CSCI-GA.2271* Computer Vision, *CSCI-GA.2566* Foundations of Machine Learning , *CS-GY.9963* Foundations of Deep Learning, *CS-GY.6313* Information Visualization, *DS-GA.1020* Mathematical Statistics.

AWARDS

Google CSRMP	Oct, 2021 - Dec, 2021
NYU SOE Ph.D. Fellowship	Sep, 2021 - Dec, 2021
WPI University & International Scholarship	2017 - 2021

ACADEMIC SERVICES & ACTIVITIES

ICLR Conference Reviewer	2023
AAAI Conference Reviewer	2023
NeurIPS Workshop on Diffusion Models Reviewer	2023
Poster Presentation, ICASSP 2020	May, 2020
Poster Presentation, INTERSPEECH 2020	Oct, 2020
Poster Presentation, WPI Works in Progress Undergraduate Research Symposium	Oct, 2019

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.