A. Tuan Nguyen

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Education

University of Oxford — Oxford, United Kingdom
PhD in Machine Learning — *Oct. 2020 – Mar. 2024*
- Supervised by Philip Torr, Yarin Gal, and Gunes Baydin.
- Thesis: Distributional Robustness: Towards Real-world and Challenging Settings of Distribution Shift.

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
MSc in Computer Science — *Feb. 2019 – Aug. 2020*
- Research Assistant at KAIST's MLAI lab, supervised by Prof. Sung Ju Hwang.
- Published papers in AAAI (multi-task learning for healthcare) and ICML (stochastic subsampling for sets).

Ulsan National Institute of Science and Technology (UNIST) — Ulsan, South Korea
BSc in Computer Science and Engineering, Minor in Management Engineering — *Mar. 2015 – Feb. 2019*
- Summa Cum Laude (Top 4%, Rank 5/131).
- Undergradudate Research Assistant at UNIST's MLVR lab (Jan. 2017 – Feb. 2019).

Experience

Research Scientist — Apr. 2024 – present
Meta Inc. — *New York, NY*
- Develop large multi-modal language models for the search problem.

Research Scientist Intern — May 2023 – Oct. 2023
Meta Inc. — *Menlo Park, CA*
- Develop uCAP, a method to improve zero-shot classification performance for CLIP-styled multi-modal models.
- Achieve SOTA results for zero-shot classification across multiple benchmarks. Paper accepted to ECCV (**Oral**).

PhD Researcher — Oct. 2020 – Mar. 2024
Torr Vision Group, University of Oxford — *Oxford, United Kingdom*
- Conduct research in topics related to robust Representation Learning and Machine Learning.
- Multiple top-tier conference papers (NeurIPS, ICLR, CVPR, ECCV, ICML, AAAI).

Research Intern — Aug. 2020 – Oct. 2020
VinAI Research — *Hanoi, Vietnam*
- Conduct research related to distribution shift, domain genrealization, and domain adaptation.

Selected Publications (More on Google Scholar)

[1] A. T. Nguyen et al. uCAP: An Unsupervised Prompting Method for Vision-Language Models. *ECCV **(Oral)***, 2024.

[2] A. T. Nguyen et al. TIPI: Test Time Adaptation with Transformation Invariance. *CVPR*, 2023.

[3] A. T. Nguyen et al. FedSR: A Simple and Effective Domain Generalization Method for Federated Learning. *NeurIPS*, 2022.

[4] A. T. Nguyen et al. KL Guided Domain Adaptation. *ICLR*, 2022.

[5] A. T. Nguyen et al. Domain Invariant Representation Learning with Domain Density Transformations. *NeurIPS*, 2021.

[6] A. T. Nguyen et al. Clinical Risk Prediction with Temporal Probabilistic Asymmetric Multi-Task Learning. *AAAI*, 2021.

Awards

Oxford, KAIST, and UNIST scholarships for full tuition fee and living expenses.
Second and Third Prizes at the Vietnamese Mathematical Olympiad (2014 and 2013).

Skills

Languages: Python, C/C++, SQL, etc.
Frameworks: Pytorch, Tensorflow, Lightning, HuggingFace