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).
- Undergraduate Research Assistant at UNIST's MLVR lab (Jan. 2017 – Feb. 2019).

EXPERIENCE

Quant Researcher — Mar. 2025 – present
Jane Street — *New York, NY*
- Quant Research and other finance-related Machine Learning problems.

Research Scientist — Apr. 2024 – Mar. 2025
Meta — *New York, NY*
- Develop large multi-modal language models for the search problem.

Research Scientist Intern — May 2023 – Oct. 2023
Meta — *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.

Research Intern — Dec. 2017 – Jan. 2018
AITRICS — *Seoul, South Korea*
- Develop clinical risk prediction models from EHR data.

AWARDS

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

Publications

[1] **A. Tuan Nguyen**, Kai Sheng Tai, Bor-Chun Chen, Satya Narayan Shukla, Hanchao Yu, Philip Torr, Tai-Peng Tian, and Ser-Nam Lim. uCAP: An Unsupervised Prompting Method for Vision-Language Models. *ECCV (Oral)*, 2024.

[2] **A. Tuan Nguyen**, Thanh Nguyen-Tang, Ser-Nam Lim, and Philip Torr. TIPI: Test Time Adaptation with Transformation Invariance. *CVPR*, 2023.

[3] **A. Tuan Nguyen**, Philip Torr, and Ser-Nam Lim. FedSR: A Simple and Effective Domain Generalization Method for Federated Learning. *NeurIPS*, 2022.

[4] **A. Tuan Nguyen**, Toan Tran, Yarin Gal, Philip H. S. Torr, and Atılım Güneş Baydin. KL Guided Domain Adaptation. *ICLR*, 2022.

[5] **A. Tuan Nguyen**, Toan Tran, Yarin Gal, and Atılım Güneş Baydin. Domain Invariant Representation Learning with Domain Density Transformations. *NeurIPS*, 2021.

[6] **A. Tuan Nguyen**, Hyewon Jeong, Eunho Yang, and Sung Ju Hwang. Clinical Risk Prediction with Temporal Probabilistic Asymmetric Multi-Task Learning. *AAAI*, 2021.

[7] Thanh Nguyen-Tang, Sunil Gupta, **A. Tuan Nguyen**, and Svetha Venkatesh. Offline Neural Contextual Bandits: Pessimism, Optimization and Generalization. *ICLR*, 2022.

[8] Bruno Andreis, Seanie Lee, **A. Tuan Nguyen**, Juho Lee, Eunho Yang, and Sung Ju Hwang. Set Based Stochastic Subsampling. *ICML*, 2022

[9] Nhat Pham, Tuan Dinh, Taeho Kim, Zohreh Raghebi, Nam Bui, Hoang Truong, **A. Tuan Nguyen**, Farnoush Banaei-Kashani, Ann Halbower, Thang N. Dinh, Vp Nguyen, and Tam Vu. Detection of Microsleep Events with a Behind-the-ear Wearable System. *IEEE Transactions on Mobile Computing*, 2021.

Skills

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