

# 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

### 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 generalization, 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