Quyen Tran

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Overview

My research primarily centers on *Continual Learning, Transfer Learning, and Robust Machine Learning*, with the goal of developing ***truly intelligent and reliable systems***. These systems are expected to actively accumulate and consolidate knowledge over time while also being safe, private, and trustworthy.

Education

Hanoi University of Science and Technology (HUST) *Hanoi, Vietnam*
B.Sc., Computer Science. *Aug 2017 – Nov 2021*

- GPA: 3.71/4.0 (Overall), 3.81/4.0 (Major)
- Top: 3/542, graduated with an Excellent Degree.
- Thesis: *"On the Benefits of Lipschitz Continuity in Neural Networks"*.

Experience

VinAI Research *Hanoi, Vietnam*
Research Resident *Apr 2025 – Present*

- Advisors: Dinh Phung, Dat Quoc Nguyen,
- Research project: *Hybrid Mamba-Transformer LLMs, with Dataset Distillation, RL alignment, etc.,.*

VinAI Research *Hanoi, Vietnam*
Research Resident *Aug 2022 – Mar 2025*

- Advisors: Trung Le, Dinh Phung, Nhat Ho, Thien Nguyen.
- Main research topics: *Continual Learning, Domain Adaptation, Robust machine learning.*

Data Science Laboratory (HUST) *Hanoi, Vietnam*
Research Assistant *Sep 2019 – Aug 2022*

- Advisors: Khoat Than, Linh Ngo.
- Main research topics: *Probabilistic inference, Recommendation systems.*

Vingroup Big Data Institute *Hanoi, Vietnam*
Teaching Assistant *Aug 2021 - Oct 2021*

- Machine Learning course.

Publications

1. **Improving Generalization with Flat Hilbert Bayesian Inference**
   Tuan Truong*, **Quyen Tran***, Quan Pham, Dinh Phung, Nhat Ho and Trung Le.
   Proceeding of the Forty-Second International Conference on Machine Learning, 2025 ***(ICML)***
2. **Promoting Ensemble Diversity with Interactive Bayesian Distributional Robustness for Fine-tuning Foundation Models**
   Quan Pham*, Tuan Truong*, **Quyen Tran***, Tan Nguyen, Dinh Phung and Trung Le.
   Proceeding of the Forty-Second International Conference on Machine Learning, 2025 ***(ICML)***
3. **Low-Rank Adaptation in Multilinear Operator Networks for Security-Preserving Incremental Learning**
   Binh Ta, Duc Nguyen, **Quyen Tran**, Toan Tran, Tung Pham.
   Proceeding of Conference on Computer Vision and Pattern Recognition, 2025 ***(CVPR)***
4. **Revisiting Prefix-tuning: Statistical Benefits of Reparameterization among Prompts**
   Minh Le, Chau Nguyen, Huy Nguyen, **Quyen Tran**, Trung Le and Nhat Ho.
   Proceeding of the Thirteenth International Conference on Learning Representations, 2025 ***(ICLR)***
5. **Boosting Multiple Views for pretrained-based Continual Learning**
   Quyen Tran*, Lam Tran*, Khanh Doan, Toan Tran, Khoat Than, Dinh Phung and Trung Le.
   Proceeding of the Thirteenth International Conference on Learning Representations, 2025 ***(ICLR)***

6. **Mutual-pairing Data Augmentation for Fewshot Continual Relation Extraction**
   Anh Nguyen*, **Quyen Tran***, Thanh Nguyen*, Diep Nguyen, Linh Ngo, Thien Nguyen and Trung Le.
   Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics ***(NAACL)***
7. **Few-Shot, No Problem: Descriptive Continual Relation Extraction**
   Thanh Nguyen*, Anh Le*, **Quyen Tran***, Thanh-Thien Le*, Linh Ngo, Thien Nguyen.
   Proceedings of the AAAI Conference on Artificial Intelligence, 2025 ***(AAAI).***
8. **Preserving Generalization of Language models in Few-shot Continual Relation Extraction**
   Quyen Tran*, Thanh Nguyen*, Anh Nguyen*, Nam Le, Trung Le, Linh Ngo, Thien Nguyen.
   Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing ***(EMNLP)***.
9. **Enhancing Domain Adaptation through Prompt Gradient Alignment**
   Hoang Phan*, Lam Tran*, **Quyen Tran*** and Trung Le.
   Proceedings of the Advances in Neural Information Processing Systems, 2024 ***(NeurIPS)***.
10. **Lifelong Event Detection via Optimal Transport**
    Viet Dao*, Cuong Pham*, **Quyen Tran***, Thanh-Thien Le, Linh Ngo, Thien Nguyen.
    Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing ***(EMNLP).***
11. **From Implicit to Explicit Feedback: A deep neural network for modeling sequential behaviors and long-short term preferences of online users**
    Quyen Tran*, Lam Tran*, Linh Chu Hai, Ngo Van Linh, Khoat Than.
    Neurocomputing 2022 ***(Neurocomputing, Q1 journal).***

(*) denotes equal contribution

Honors and Awards

Vietnam's national university examination *June 2017*

- Score: 29.25/30 (A combination - Maths, Physics, Chemistry).
- Top 0.1% out of 853,896 candidates.

Talent Scholarships for Undergraduates, HUST *2017 - 2021*

- Spring 2018, Fall 2018.
- Spring 2019, Fall 2019.
- Spring 2020, Fall 2020.
- Spring 2021.

Professional Services

Reviewer at ICLR (2025), CVPR (2025), ACL (2025) and EMNLP(2025).

References

(random order)

1. **Prof. Dinh Phung**,
   Full Professor, Monash University
2. **Prof. Trung Le**,
   Assistant Professor, Monash University
3. **Prof. Thien Nguyen**,
   Associate Professor, University of Oregon.
4. **Prof. Nhat Ho**,
   Assistant Professor, The University of Texas at Austin.
5. **Dr. Dat Quoc Nguyen**,
   Principal Researcher, Qualcomm AI Research