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 *Aug 2022 – Present*

- Advisors: Trung Le, Dinh Phung, Nhat Ho, Thien Nguyen.
- Main research topics: *Continual Learning, Domain Adaptation, Robust machine learning.*
- First/Co-first author of 4 publications at NeurIPS, EMNLP, AAAI, and 3^+ other submissions currently under review.

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

- **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)***.
- **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)***.
- **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).***
- **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 ***(AAAI).***
- **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

Selected Submissions

- **Boosting Multiple Views for pretrained-based Continual Learning**
  Quyen Tran, Lam Tran, Khanh Doan, Toan Tran, Khoat Than, Dinh Phung, Trung Le. ***Under review at ICLR 2025 (6665).***
- **Improving Generalization with Flat Hilbert Bayesian Inference**
  Tuan Truong*, **Quyen Tran***, Quan Pham, Nhat Ho, Dinh Phung, Trung Le. ***Under review at ICLR 2025 (8863).***
- **Leveraging Hierarchical Taxonomies in Prompt-based Continual Learning**
  Quyen Tran, Hoang Phan, Minh Le, Tuan Truong, Dinh Phung, Linh Van Ngo, Thien Huu Nguyen, Nhat Ho, Trung Le. ***Under review at CVPR 2025.***

(*) 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) and CVPR (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.