

TRI NGUYEN

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OBJECTIVE

Seeking a full-time position in the ML/AI domain, with a focus on the practical application of machine learning guided by optimization, estimation, and model identifiability principles.

EDUCATION

Ph.D. in Computer Science, Oregon State University — Corvallis, OR, US 2020 - 2025
GPA: 3.85/4
B.Sc. in Computer Science, Ho Chi Minh City University of Technology — Vietnam 2012 - 2017
Graduated in Top 10 in CS&EE Department

RELATED EXPERIENCE

Graduate Research Assistant Mar 2020 - Present
Prof. Xiao Fu, Oregon State University, *Corvallis, OR*

- Developing a robust preference learning method to finetune LLM with noisy data.
- Tackled the noisy label learning problem in a challenging setting where noisy labels depends on samples.
- Significantly enhanced deep clustering robustness on heavily noisy pairwise annotations by 15% accuracy through a novel volume-based regularizer with identifiability guarantee.
- Drastically reduced memory usage from $O(N^2)$ to $O(N)$ to solve a foundational matrix factorization problem in signal processing and machine learning applications.

AI Engineer Feb 2017 - Jan 2020
YouNet Group *Ho Chi Minh City, Vietnam*
Sentiment Analysis

- Lowered workload of social media research team by 25% via deploying an LSTM-based classification model using a continuous integration pipeline, handling expanding dataset.
- Deployed on-demand scalable sentiment classification APIs on Google Cloud to serve production team.
- Minimized downtime of text crawling system processing GBs of data daily by implementing systematic logging, monitoring, exception handling, and through comprehensive unittests.

Customized Data Retrieval and Aggregation

- Boosted business team's performance by designing and implementing a retrieval app with domain-specific language (DSL) featuring advanced operators such as **not**, **and**, **or**, *****.

PUBLICATIONS

- [ICASSP2025] **T. Nguyen**, S. Ibrahim, R. Hutchinson, and X. Fu. *Under-Counted Matrix Completion Without Detection Features*.
- [NeurIPS2024(spotlight)] **T. Nguyen**, S. Ibrahim, and X. Fu. *Noisy Label Learning with Instance-Dependent Outliers: Identifiability via Crowd Wisdom*.
- [ICML2023] **T. Nguyen**, S. Ibrahim, and X. Fu. *Deep Clustering with Incomplete Noisy Pairwise Annotations: A Geometric Regularization Approach*.
- [ICLR2023] S. Ibrahim, **T. Nguyen**, and X. Fu. *Deep Learning From Crowdsourced Labels: Coupled Cross-Entropy Minimization, Identifiability, and Regularization*.
- [TSP2022] **T. Nguyen**, X. Fu, and R. Wu. *Memory-Efficient Convex Optimization for Self-Dictionary Separable Nonnegative Matrix Factorization: A Frank-Wolfe Approach*.

SKILLS

- HuggingFace, Lightning, PyTorch, W&B, Ray, TensorFlow, Pandas, NumPy, scikit-learn
- Docker, Git, Tmux, Vim, Python, Matlab, C++, Latex; OOP, design pattern, functional programming

EXTRACURRICULAR ACTIVITIES

- Math Tutor - TRIO SSS program at OSU, Fall 2023.
- Member - OSU Badminton Club.
- Maintainer - BibMan, a LaTeX bibliography manager: <https://github.com/ductri/BibMan>