

Tianyi Zhou

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RESEARCH INTEREST

My research interest focuses on machine learning, reinforcement learning, constraint learning, and life-long(continual) learning.

EDUCATION

2025 - present	Master (System Engineering) at University of Pennsylvania	(GPA: 3.43/4.0)
2021 - 2024	Bachelor's Degree at University of Rochester	(GPA: 3.7/4.0)

RESEARCH EXPERIENCE

Research Assistant	Aug. 2024 - Dec. 2024
- Improved rehearsal sampling method (GRASP) for continual learning scenarios.	
- Integrated and benchmarking various SOTA continual learning models (SIESTA, DERpp, GDumb).	

WORK EXPERIENCE

ECCOM (MLE intern)	May 2024 - Aug. 2024
- Developed and evaluated models for feature selection and importance analysis based on client requirements.	
- Implemented tabular data classification using XGBoost, CatBoost, TabNet.	
- Designed end-to-end workflow orchestration for employee turnover prediction with 90%+ accuracy on blind test set.	

Red Note (business intelligence intern)	May 2023 - Aug. 2023
- Web scraped rival e-commerce platform's sale performance	
- Developed a LSTM model for consumer interest prediction	

TEACHING EXPERIENCE

Recitation Teaching Assistant (Computer Models and Limitations)	Jan. 2025 - May 2025
Workshop Teaching Assistant (Intro to Programming)	Aug. 2024 - Dec. 2024
Class Teaching Assistant(Computational Statistics)	Aug. 2023 - May. 2024
- Lead weekly workshop sessions and provide 1-1 assistance in R and Python	
- Grade assignments and exams	

PROJECTS

Survey on LLM Fine-tuning with LoRA Variants

- Compared performances of various LoRA-based fine-tuning approaches (LoRA-FA, AdaLoRA, VeRa, etc.) on Llama3-8b.
- Created benchmarking pipeline (LLM-based evaluation) to assess efficiency and model performance trade-offs.

SKILLS

Machine Learning	PyTorch, Scikit-learn, Pandas, Numpy
Data Science	Data preprocessing, feature engineering, model development, evaluation, visualization.

Last updated: January 21, 2026