

EDUCATION

- **University of Alberta** Edmonton, AB
Master of Science (Thesis-based) in Computing Science - Advised by Prof. Csaba Szepesvári *Jan. 2024 – Present*
 - **Relevant courses:** AI Logics, Machine Learning, Probabilistic Graphical Model, Decision Making under Uncertainty; GPA: 4.0
- **University of Alberta** Edmonton, AB
Bachelor of Science in Computing Science *Sep. 2019 – Apr. 2023*
 - **Relevant courses:** Reinforcement Learning, Machine Learning, Data Mining, Computer Vision, Natural Language Processing, Data Science, AI Capstone, Numerical Methods, Stochastic Process, Mathematical Statistics.; GPA: 3.96

RESEARCH EXPERIENCE

- **Carleton University** Ottawa, ON
Research Assistant - Advised by Prof. Junfeng Wen *Oct 2022 - Present*
 - **Actor-critic bi-level optimization:** Develop a new training strategy to accelerate the convergence rate of actor-critic algorithm.
 - **Soft actor-critic asymptotic and non-asymptotic convergence rate:** Develop a new theoretical framework to prove the convergence rate and optimality of soft actor-critic algorithms.
- **University of Alberta** Edmonton, AB
Research Assistant - Advised by Prof. Martha White *May 2022 - Sep 2022*
 - **Kernel representation of Gaussian Process:** Characterized the difference between Gaussian Process and Bayesian Linear Regression with different parameterizations.
- **National Economic University** Hanoi, Vietnam
Research Assistant - Advised by Nguyen Thanh Tuan *January 2021 - Sep 2022*
 - **Graph Transformer for predicting drug response:** Applied Graph Transformer algorithms and T-SNE to enhance drug features' extraction. Achieved 93% Pearson correlation coefficient on the benchmark.

PUBLICATIONS

- **Graph Transformer for Drug Response Prediction:** Chu T, Nguyen TT, Hai BD, Nguyen QH, Nguyen T. Graph Transformer for Drug Response Prediction. *IEEE/ACM Trans Comput Biol Bioinform.* 2023 Mar-Apr;20(2):1065-1072. doi: 10.1109/TCBB.2022.3206888. Epub 2023 Apr 3. PMID: 36107906.

PROJECTS

- **JATT:** Build a SVM-based classifier to predict whether the patients have a large vessel occlusion or not using Pytorch with 90% accuracy.

TEACHING EXPERIENCE

- **CMPUT 267: Basics of Machine Learning (University of Alberta):** Marked the assignments, conducted office hours, monitored forums for Q&A, created tutorials.
- **CMPUT 469: AI Capstone (University of Alberta):** Lead TA, created quizzes, mentored and evaluated the performance of multiple student groups.
- **Deep Learning (National Economic University):** Created assignments, created a Kaggle competition for course project, marked the exam, hosted lab sessions.
- **SU Tutor:** Tutored students on mathematics, statistics, and computing science courses.
- **Cohere AI:** Organized bi-weekly Reinforcement Learning and Machine Learning theory reading group.

AWARDS

- **Dean's Honor Roll Fall/Winter** : 2019/2020/2021/2022
- **International Student Scholarship**: 2019/2020/2021/2022
- **Faculty of Science Gold Standard Scholarship**: 2019
- **University of Alberta Maple Leaf First Year Excellence Scholarship**: 2019
- **Dean's Silver Medal in Science**: 2023

SKILLS

- **Languages**: Python, Julia, SQL, C/C++, Java, Matlab, R
- **Frameworks**: Pytorch, Pandas, NumPy
- **Technologies**: Git, Weight and Biases