

Jeremy Qin

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EDUCATION AND CERTIFICATIONS

M.Sc. in Artificial Intelligence, Université de Montréal + MILA + CRCHUM 2023 - Present
Thesis Masters with a focus on Trustworthy and Explainable LLMs in Healthcare
Co-Supervisors: Prof. Bang Liu and Prof. Quoc Dinh Nguyen
Founder and President of the UdeM AI club
GPA: 4.1/4.3

Bachelor in Computer Science and Mathematics, Université de Montréal 2020 - 2023
Specialization in Data Science

SKILLS

Tools and Languages Python, PyTorch, R, TensorFlow, SQL
Communication French, English, Mandarin (fluent)

SCHOLARSHIPS AND AWARDS

Collective Engagement Prize, Université de Montréal 2023
Excellence Scholarship, Ministère de l'éducation Supérieure 2022
DIRO Scholarship, Université de Montréal 2021

PUBLICATIONS AND RESEARCH WORKS

Foundational Model for Molecular Generation Ongoing

- Research collaboration with Samsung for developing a foundational model that aims to improve generation of larger molecules
- Leverage insights from the success of small molecules optimization for larger molecules and for improved properties prediction

Enhancing Healthcare LLM Trust with Atypical Presentations Recalibration

- J. Qin, B. Liu and Q. Nguyen "Enhancing Healthcare LLM Trust with Atypical Presentations Recalibration", EMNLP 2024 Findings arXiv:2409.03225

Scaling Affordances in Deep Reinforcement Learning

- L. Cherif, E. Meriaux*, J. Qin*, V. Patel, M. Klissarov, D. Precup, and K. Khetarpal "Leveraging Affordances for Reinforcement Learning in Large Discrete Action Spaces," In Women in Machine Learning (WiML) Symposium at ICML 2024

Conferences Reviewer

- Reviewer for NeurIPS Socially Responsible Language Modelling Research 2024 Workshop
- Reviewer for other conferences such as NLPCC, SIGIR-AP and WSDM

PROFESSIONAL EXPERIENCE

Teaching Assistant (IFT6135 - Representation Learning) 09 2024 - Present
Université de Montréal - Mila MTL, QC

- Assist Prof. Aishwarya Agrawal in her graduate level representation learning class
- Design and correct assignments on topics such as NN training, CNN, RNN, Transformers, etc.

Teaching Assistant (INF8245 - Machine Learning) 09 2024 - Present
Polytechnique de Montréal - Mila MTL, QC

- Assist Prof. Sarath Chandar in his introductory machine learning class
- Design and correct assignments on topics such as regression, classification, clustering, etc.

Teaching Assistant (IFT6135 - Representation Learning) 01 2024 - 05 2024
Université de Montréal - Mila MTL, QC

- Assist Prof. Aaron Courville in his graduate level representation learning class
- Design and correct assignments on topics such as NN training, CNN, RNN, Transformers, etc.

Data Scientist 05 2023 - Present
Intact Datalab Rating Revolution Team MTL, QC

- Collect, process, validate and analyze our client's data to understand trends in commercial liability losses with the goal of identifying new opportunities for a better rating algorithm
- Setup preprocessing and modeling pipeline for better automation of our data science workflow
- Use machine learning to design and experiment different proof of concepts while keeping business considerations