Jeremy Qin

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EDUCATION AND CERTIFICATIONS

M.Sc. in Artificial Intelligence, Université de Montréal + MILA + CRCHUM

2023 - Present

GitHub: jeremy-gin

LinkedIn: JeremyQin

Thesis Masters with a focus on Concept-based Representation Learning for LLMs

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

Research Interest Interpretability, Alignment, Al Safety, Explainability, Al4Science

Tools and Languages Python, PyTorch, HuggingFace, R, TensorFlow, SQL, SAS

Communication French, English, Mandarin (fluent)

SCHOLARSHIPS AND AWARDS

Collective Engagement Prize, Université de Montréal2023Excellence Scholarship, Ministère de l'éducation Supérieure2022DIRO Scholarship, Université de Montréal2021

PUBLICATIONS AND RESEARCH WORKS

Concept-based Activation Steering for Conditional Molecular Generation with LLMs

In Review @ ICLR 2026

- Research that aims to improve generation of larger molecules through the use of foundation models
- Leverage Concept-based learning to improve alignment of properties for conditional and controllable generation
- Leverage insights from the success of small molecules optimization for larger molecules and for improved properties prediction
- · Accepted at NeurIPS Al4Mat Workshop

Concept-based Calibration of LLMs in Healthcare

- Research that aims to better understand model's uncertainty through their internal activations
- · Leverage insights from concept-based interpretability to understand LLM's sensitivity and feature representation space

SHADES: Towards a Multilingual Assessment of Stereotypes in Large Language Models

Published @ NAACL 2025

- Assisted in developping a dataset for evaluating stereotypes present in LLMs
- M. Mitchell, ...J.Qin...Aurélie Névéol, Zeerak Talat et al. "SHADES: Towards a Multilingual Assessment of Stereotypes in Large Language Models", NAACL 2025

Enhancing Healthcare LLM Trust with Atypical Presentations Recalibration

Published @ EMNLP 2024

- Developped a recalibration method that leverages atypical presentations for Medical QA datasets
- 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

Presented @ ICML 2024

- Leverage the concept of affordance for better action selection in large discrete spaces
- Showed outperformance in system recommender tasks
- 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 ICML 2025 NewInML Workshop
- Reviewer for NeurIPS Socially Responsible Language Modelling Research 2024 Workshop

TEACHING EXPERIENCE

Graduate Teaching Assistant (Representation Learning and Machine Learning) Université de Montréal - Mila

2024-2025

MTL, QC

- Assisted teaching for multiple graduate level courses such as Representation Learning, Machine Learning and Advanced Project in Machine Learning
- Helped design theoretical and practical assignment questions and grading
- · Supported graduate students with office hours and tutorials