

Fully Funded PhD Position in AI for Computational Pathology and Medicine

We invite applications for a **fully funded PhD position** under the co-supervision of **Prof. Mahdi S. Hosseini** ([Department of Pathology, McGill University](#) & [Department of Computer Science and Software Engineering, Concordia University](#), Montreal) and **Prof. Christopher Pal** ([core Mila faculty member](#) and [Full Professor at Polytechnique Montréal](#)). The successful candidate will be **enrolled in the [Department of Pathology at McGill University](#)** and will be considered for [Mila membership](#).

The PhD project lies at the intersection of **AI** and **computational pathology**, with emphasis on

- (a) foundation modeling,
- (b) efficient vision-language modeling,
- (c) multimodal learning,
- (d) interpretable and explainable AI models,
- (e) clinical pathology applications in diagnostics, prognostics, and cancer biomarker discovery

Adequate **computational resources** will be available to support these research directions.

Candidate Requirement. We are looking for a high-caliber, research-oriented candidate with:

- High CGPAs in both BSc and MSc degrees in CS, ECE, Biomedical Engineering, or closely related fields
- Prior research experience in medical imaging
- At least one publication in a top-tier AI/ML venue (e.g., CVPR, ICCV, NeurIPS, ICLR, ICML, TMLR)
- Strong theoretical understanding of AI and deep learning
- Proven hands-on experience with PyTorch and implementation of custom deep learning models
- Self-motivation, critical thinking, and enthusiasm for working in an interdisciplinary research environment (spanning computer science, pathology, and medicine)

Supervisory Team. This PhD position will be co-supervised by:

- [Prof. Christopher Pal](#) – Canada CIFAR AI Chair, Full Professor at Polytechnique Montréal, Adjunct Professor at DIRO (Université de Montréal), and core Mila faculty member.
- [Prof. Mahdi S. Hosseini](#) – Gina Cody Research Chair and Assistant Professor of Computer Science at Concordia University, Adjunct Professor of Pathology at McGill University, and Affiliate Member of Mila – Quebec AI Institute. His recent distinctions include the Amazon Research Award.

In addition, the student will benefit from potential **co-supervision or close collaboration with clinical pathologists at McGill**, providing direct exposure to real-world clinical problems and data.

Expected Start Date. As early as possible in 2026.

How to Apply? Prepare and send your documents by

- emailing to christopher.pal@mila.quebec and mahdi.hosseini@mcgill.ca
- email subject line: [PhD-Pathology-McGill: Your-Name],
- personalized cover letter
- curriculum vitae (CV),
- copy of your technical report/paper publications, and
- unofficial transcripts from both BSc and MSc.

Only shortlisted candidates will be contacted for interviews.

About Montreal. Montreal is a top-ranked city for students and a global hub for AI research, home to institutions such as Mila, IVADO, and leading tech companies like Amazon, Google, Meta, and Microsoft.

Equity and Diversity. We welcome applications from candidates of all backgrounds and are committed to fostering an **inclusive, equitable, and diverse** research environment.