

## 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](mailto:christopher.pal@mila.quebec) and [mahdi.hosseini@mcgill.ca](mailto: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.