

POSTDOCTORAL POSITION AT MCGILL UNIVERSITY

Job Location: Lady Davis Institute for Medical Research - Jewish General Hospital

Project title: MIDAS: Initiative for shared Data Across Sites in lung, ovarian, melanoma, and colon cancers

Postdoc Appointment Term: 1-year term, with possibility of extension

Appointment Start Date: Immediate

Job Description

Are you interested in developing the next generation Artificial Intelligence (AI)/Machine Learning (ML) capabilities to better understand how health care professionals will use the data for patient's treatment suffering from different kinds of cancer?

The laboratory of Dr. Alan Spatz in the Department of Pathology, Faculty of Medicine, McGill University and located at the Lady Davis Institute for Medical Research of the Jewish General Hospital is currently seeking a talented Postdoctoral Fellow to join an exciting research project.

This position will leverage AI and ML to drive innovation and make a real-world impact in the healthcare system. The PDF will help shape our AI strategy to predict early-stage clinical treatment, survival of the patient, clinical cancer diagnostic, personalized medicine for cancer patients and help pathologists and other health care professionals in their decision-making process by using patient's digital tissue information.

Multimodal integration of data using digital pathology exploitation by AI has already been demonstrated to carry clinical grade accuracy to better classify cancers. The McGill Department of Pathology in collaboration with the Lady Davis Institute are collaborating to refine prognostic models to guide perioperative treatments in various cancers.

In your role, you will create innovative ML techniques to develop algorithm to guide and achieve our goals with the help of digital tissue section images of different type of cancers and the clinical information of the patient. Developed classifiers will be used in the clinic as diagnostic tools to show the potential of AI in the healthcare system.

Qualified candidates should be self-driven and highly motivated individuals with an established track record of success, including first-author publications. Applicants must have completed a Ph.D. in a relevant discipline within the last two years and should have relevant experience.

Job Qualifications

- PhD with a background in Computer Science, Informatics/Biomedical Data Science, Engineering, Computational Biology, or a related field;
- Prior experience in computer vision, with application of deep learning to medical images;
- Experience with Clinical data acquisition and processing;
- Hands-on experience with sensors, robotics, Linux operating systems an advantage
- Android/iOS development, Data/systems architecture design, Cloud experience an advantage;
- Excellent communication skills and fluency in both spoken and written English.

We are committed to providing equal opportunities in employment. We value diversity and do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, or disability status.

For prompt consideration, please email the following items to Dr. Alan Spatz (alan.spatz@mcgill.ca):

- Cover letter (including a statement of research interests and prior experience in related research)
- CV with bibliography
- PDF of recent publications or manuscripts ready for submission
- Contact information for 2 references

Job Schedule: Full time (35h/week)

Annual Salary: Salary for this position will be commensurate with experience.