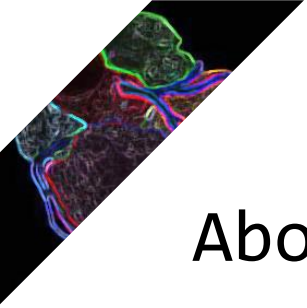


Sponsorship Prospectus



Image analysis and deep learning in Python

June 12th – August 6th, 2022



About us

Our mission is to teach students and researchers new to the field the fundamentals of medical image analysis and deep learning in Python. McMedHacks is a program organized by students of Dr. Enger's lab at McGill Medical Physics Unit and the Lady Davis Institute and consists of a workshop series and a hackathon.

Participants will learn how to

- Basic programming in **Python**
- In-depth introduction to deep learning **Pytorch** framework
- **(pre)process** medical image data in formats ranging from JPG images to DICOM files
- **analyze** images from several imaging modalities such as histopathology, endoscopy, and CT
- use both **algorithmic** and **deep learning-based** from basic machine learning pipeline, pitfalls, and evaluation methods, to advanced deep learning techniques applied to medical image analysis
- **recognize and overcome common challenges** associated with different imaging modalities and analysis methods

The Workshops

From June 12th – August 6th, 2022, we will be hosting a series of weekly seminars and interactive workshops. Leading researchers in medical image analysis and deep learning will present their cutting-edge research to inspire and motivate students for the complimentary workshops.

Our interactive workshops will be instructed by students and practicing professionals with research experience in deep learning and medical image analysis. Each workshop will consist of:

1. a classroom-style introduction to a new image analysis method and imaging modality
2. an interactive demonstration of the newly learned skills

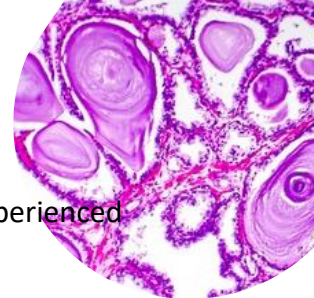
The workshops will be **free**. Due to COVID restrictions and for accessibility purposes, the workshops will be held **entirely online**. Anyone from anywhere can join. All demonstrations will be performed in Google Colab, which will allow anyone with internet access to perform complex computations on their machines regardless of hardware specifications.

The Hackathon

To put the skills that participants learned during the workshops to the test, we will be hosting a hackathon in the first week of August. Participants will be asked to solve problems in medical image analysis using deep learning. The event will be held **online** on Discord and Gather Town.

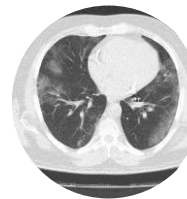


During the event, participants will receive mentorship from researchers and experienced students.



Why sponsor us?

Your sponsorship will allow us to expand our team of expert instructors, speakers, and mentors. With your support, we can reach a larger audience from around the globe who may not have robust educational resources to start their wonderful journey in AI.



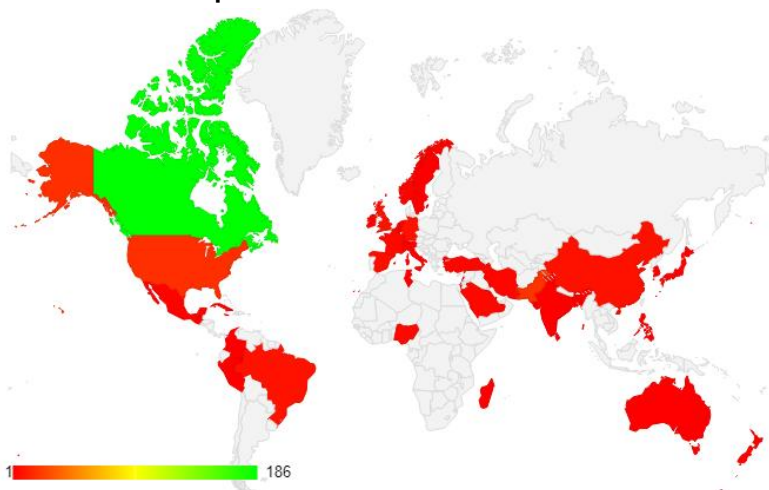
Networking and Recruitment

Over 600 participants ranging from undergraduates to postdocs and MDs of varying education disciplines and backgrounds from 38 countries have signed up for the McMedHacks workshops and Hackathon in its 2021 edition. These bright minds are hungry for challenges and new opportunities. Since the event will be online, participants not just from Canada and the USA but from around the globe will be attending.

Brand Recognition

Your company / institution will be exposed to current and future scientists pushing the boundaries of medicine and computing. Leave a lasting impression with branded merchandise, product demonstrations, and your own coding challenges. You will reach participants during the events and a much broader audience through the recordings posted on social media.

Our Participants from McMedHacks 2021



Their Fields of studies

| | | | |
|--|--|-------------------------------------|-------------------------------------|
| Mention or use of your product during our interactive workshop ⁽¹⁾ | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Host mini-coding challenge(s) with branded prize(s) | | | <input checked="" type="checkbox"/> |
| Host your own workshop about your company, product, and opportunities during the hackathon | | | <input checked="" type="checkbox"/> |

(1) if your product is applicable to medical image analysis or deep learning



How to reach us

If you are interested in supporting our event or have any questions, please reach out to our sponsorship team at medhacks2021@gmail.com

You can learn more about our event on our website: www.mcmedhacks.com

