



Jewish General Hospital
Lady Davis Institute for Medical Research



***"An academic journey from Medical Physics to AI₄Health:
From diving to surfing research, and back again"***

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The MSc and PhD programs of the Medical Physics Unit (MPU) of McGill University offer great opportunities to build a strong and diverse research background. In this presentation, I would like to share how my experience at the MPU led me to the broader research domain of applied artificial intelligence for health (AI₄Health). I will also present the activities of my research laboratory based on the central theme of "Modeling heterogeneous healthcare data for developing risk models" and divided under three main research axes: (i) Quantitative medical image analysis; (ii) Heterogeneous data modeling; and (iii) Federated learning. For telling this academic journey, a main concept will be useful (and will be explained): diving vs surfing research!