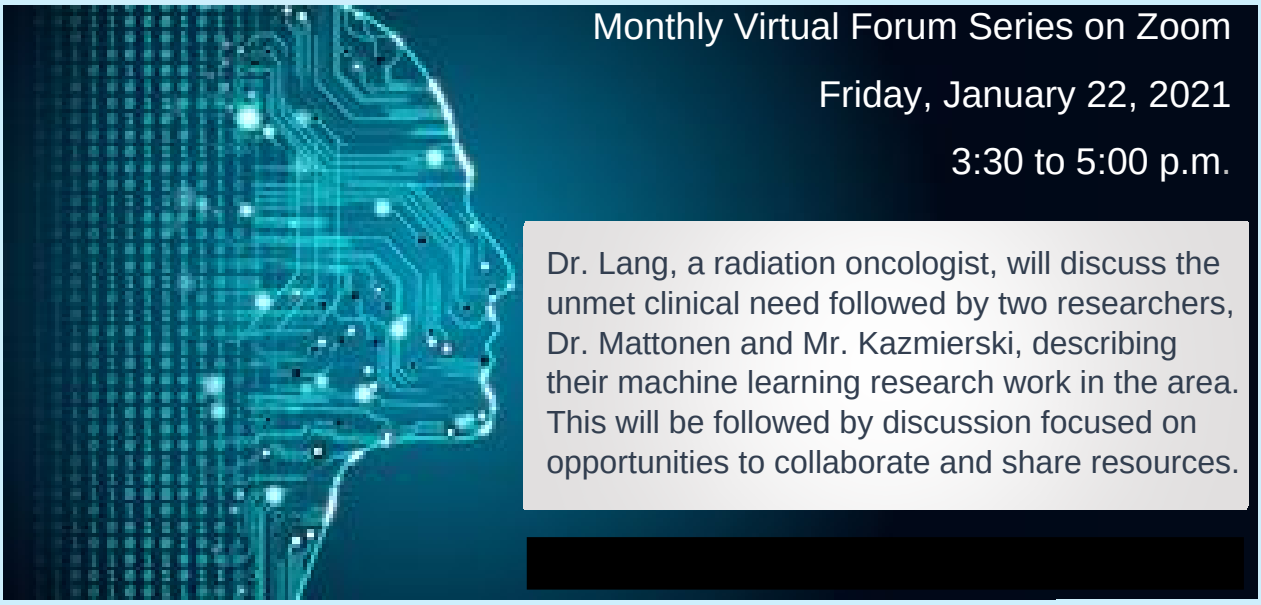
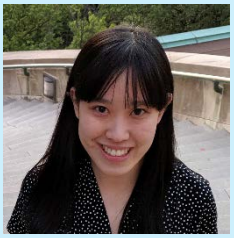
Join the Machine Learning in Medical Imaging Consortium (MaLMIC) for an opportunity to network on machine learning





Predictive modelling in head and neck cancer – a clinician's wish list

Pencilla Lang, BEng. MD. FRCPC. PhD
Radiation Oncologist, London Health Sciences Centre
Assistant Professor, Department of Oncology, Western University

Pencilla will review some of the clinical challenges faced by oncologists treating head and neck cancer, and outline some opportunities for predictive models, radiomics and AI to guide clinical decision-making.

Radiomics and machine learning for oropharyngeal cancer

Sarah Mattonen, PhD
Assistant Professor, Department of Medical Biophysics, Western University

Sarah will discuss preliminary work investigating radiomics and machine learning models to predict outcomes and toxicities in patients with oropharyngeal cancer treated with chemoradiotherapy. Sarah will also discuss efforts to validate existing models, and describe some challenges and opportunities for radiomics research in head and neck cancer.

Machine learning for prognostic modelling in head and neck cancer using multimodal data: lessons from the RADCURE Prognostic Modelling Challenge

Michal Kazmierski, BSc
MSc Student, Department of Medical Biophysics, University of Toronto

Michal will discuss the results of a machine learning challenge for head and neck cancer (HNC) survival prediction with the aim of 1) developing an accurate prognostic model for HNC survival using clinical, demographic and routinely collected CT imaging data and 2) evaluating the true added value of CT radiomics compared to other prognostic factors.