

2026 T-CAIREM Summer Research Program

Faculty Supervisors & AI in Medicine Summer Research Projects List

- **Last updated: January 23, 2026 (This PDF will be updated as more supervisors list their summer research projects.)**

T-CAIREM-affiliated Canadian university faculty members and researchers are eligible to apply for funding to hire a summer student to assist with research. (This includes faculty members and researchers from partner universities and health research institutions in the T-CAIREM Network.)

This PDF is intended for students applying for paid internships with the T-CAIREM 2026 Summer Research Program. The faculty supervisors listed in this PDF have indicated that they have one or more summer student positions available.

In November 2025, after we collected applications from faculty supervisors, we posted this PDF of the research project descriptions. This document will be updated as more supervisors register the availability of summer positions. We're sharing this PDF with students interested in the program so that they can contact potential supervisors directly. (Students may also independently find a faculty supervisor who isn't on the PDF list of potential supervisors.)

The student is responsible for arranging an internship with a supervisor before the internship starts. The joint application deadline for the supervisor and student is January 25, 2026.

Important Dates

- **Student and supervisor joint applications deadline: January 25, 2026 at 11:59pm ET.**
- **Students and supervisors will be notified of their acceptance into the 2026 Summer Research Program by February 2026.**

More information for students:

<https://tcairem.utoronto.ca/call-student-researchers>

More information for faculty supervisors:

<https://tcairem.utoronto.ca/call-faculty-supervisors-0>

We look forward to working with the successful applicants this summer. Good luck!

For more information contact:

Zoryana Salo, Centre Administrator

Zoryana.salo@utoronto.ca • tcairem.utoronto.ca

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #1

POTENTIAL SUPERVISOR'S INFORMATION

Name	Nadia Minian
Preferred email address	nadia.minian@camh.ca
What is your primary university/hospital/research institution affiliation?	CAMH-Centre for Addiction and Mental Health
What is primary department you're appointed to/affiliated with?	DFCM
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Cancer Prevention; Smoking Cessation; Alcohol Reduction; Implementation Science; Behavioral Science
Where can students learn more about the your research work?	https://www.camh.ca/en/science-and-research/science-and-research-staff-directory/nadiaminian
Briefly describe the research that the student(s) will be involved in.	One of two projects: 1. testing a chatbot, that has been co-designed with patients and health care providers, to help people adhere to a medication (varenicline). 2. Examining if an alcohol reduction intervention that has been embedded in a patient portal is successful.
What specific skills are you looking for in summer student(s)?	Communication Being able to clearly and effectively conveying information both verbally and in writing Work ethic and professionalism Teamwork and collaboration Problem-solving
What is the primary location of research?	1025 Queen St West
Where will the student's research be conducted?	In Lab
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #2

POTENTIAL SUPERVISOR'S INFORMATION

Name	Lusia Lusia.sepiashvili
Preferred email address	lusia.sepiashvili@sickkids.ca
What is your primary university/hospital/research institution affiliation?	Hospital for Sick Children
What is primary department you're appointed to/affiliated with?	DPLM
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Examining laboratory test performance in a pediatric hospital of specialized laboratory tests (autoantibodies and inflammatory markers)
Briefly describe the research that the student(s) will be involved in.	<p>The objective is to understand the diagnostic performance of laboratory tests (autoantibodies and inflammatory markers) in a pediatric cohort in a single centre. Specific aims</p> <ol style="list-style-type: none">1. Establish concordance of different methods for the same test with disease status/diagnosis2. Evaluate the diagnostic accuracy (sensitivity and specificity) of discordant laboratory results3. Determine if assay performance has changed over time
What specific skills are you looking for in summer student(s)?	<p>Ability to analyze large dataset R programming skills an asset Ability to visualize data Communication skills- oral and written Ability to merge relational datasets</p>
What is the primary location of research?	Hospital for Sick Children
Where will the student's research be conducted?	In Lab
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #3

POTENTIAL SUPERVISOR'S INFORMATION

Name	Zihang Lu
Preferred email address	zihang.lu@utoronto.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Faculty of Kinesiology and Physical Education
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Statistical and Machine Learning, High Dimensional Data, Precision Health, Data Sciences, Wearable Device.
Briefly describe the research that the student(s) will be involved in.	The student will be involved in applying and extending novel statistical and machine learning methods to analyze physical activity data collected from wearable devices. This research aims to better understand temporal activity patterns and their relationships with health outcomes. Through this experience, the student will develop strong analytical and computational skills, gain experience with real-world health data, and learn advanced modeling techniques for high-dimensional and longitudinal data. In addition, the student will develop scientific communication and teamwork skills by collaborating with an interdisciplinary research team and contributing to presentations and manuscript preparation.
What specific skills are you looking for in summer student(s)?	Backgrounds in statistics and machine learning; Strong communication, written and analytical skills; Experience in programming tools (e.g., R or Python); Interested in applications related to health/medical data; Be able to work independently and as part of the team.
What is the primary location of research?	University of Toronto
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #4

POTENTIAL SUPERVISOR'S INFORMATION

Name	Maged Goubran
Preferred email address	maged.goubran@utoronto.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Medical Biophysics
What is your Appointment level?	- Associate Professor
What are your primary research interests?	AI, Computational Neuroscience, Medical Imaging, Neurodegenerative Diseases, Brain Networks & Connectomics
Where can students learn more about the your research work?	https://aiconslab.github.io/
Briefly describe the research that the student(s) will be involved in.	The student will aid in building a novel DL model for estimating effective connectivity (EC) in the brain. EC is the measure of causal connections between brain regions and has been shown to change during neurodegeneration. Recent work has shown EC can be estimated through the use of AI. We will build off this work and develop a novel AI model using multi-modal medical imaging and a state-of-the-art architecture for estimating EC. This model will be used to estimate EC in longitudinal Alzheimer's disease cohorts and investigate how EC changes with disease progression.
What specific skills are you looking for in summer student(s)?	A qualified student will have extensive experience with Python and Unix-like operating systems and familiarity with brain MRI and neurodegenerative diseases. Prior experience with AI model development, brain MRI analysis, and use of high performance computing clusters is an asset.
What is the primary location of research?	Sunnybrook Research Institute
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #5

POTENTIAL SUPERVISOR'S INFORMATION

Name	Chris McIntosh
Preferred email address	chris.mcintosh@uhn.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	Medical Biophysics
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Machine learning; Healthcare; Computer vision; multimodal foundation models; Large language models;
Where can students learn more about the your research work?	https://mcintoshml.github.io/
Briefly describe the research that the student(s) will be involved in.	Working at the intersection of computer science and medicine, students will work in the areas of multimodal learning, meta learning, and explainable AI across diverse healthcare applications in cardiovascular medicine. Students will help process data and build the next generation of machine learning models to advance patient care.
What specific skills are you looking for in summer student(s)?	Machine learning; python; pytorch; wearables and/or medical imaging.
What is the primary location of research?	Toronto General Hospital
Where will the student's research be conducted?	In Lab
Supervisor Commitment	
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.	
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]	
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #6

POTENTIAL SUPERVISOR'S INFORMATION

Name	Michael Colacci
Preferred email address	michaelfcolacci@gmail.com
What is your primary university/hospital/research institution affiliation?	Unity Health
What is primary department you're appointed to/affiliated with?	Internal Medicine/Li Ka Shing
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	AI Clinical Decision Support, Healthcare AI Implementation, AI and Fairness/Equity
Briefly describe the research that the student(s) will be involved in.	This project will evaluate instances of algorithmic bias on sociodemographic factors in deployed clinical AI tools. It will consist of a scoping review where the student will review manuscript titles, abstracts, full texts, perform data extraction, and prepare a manuscript.
What specific skills are you looking for in summer student(s)?	Experience with scoping/systematic reviews, independent learner/self-motivated, organizational and communication skills
What is the primary location of research?	St. Michael's Hospital
Where will the student's research be conducted?	Remotely
Supervisor Commitment	
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.	
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]	
Are you a T-CAIREM member?	No, but I will register on the T-CAIREM website

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #8

POTENTIAL SUPERVISOR'S INFORMATION

Name	Jose Zariffa
Preferred email address	jose.zariffa@utoronto.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	Institute of Biomedical Engineering
What is your Appointment level?	- Associate Professor - TAHSN-affiliated Scientist
What are your primary research interests?	Rehabilitation engineering; computer vision; upper limb function; neural engineering; bioelectric signal processing.
Where can students learn more about the your research work?	https://bme.utoronto.ca/faculty-research/core-faculty/jose-zariffa/
Briefly describe the research that the student(s) will be involved in.	Hand function is essential to regaining independence after neurological injuries, such as spinal cord injury or stroke. While quantifying hand function is necessary when developing new treatments, there is a gap between hand function observed in the clinic and real use at home. Our research group has combined video from wearable cameras (egocentric video) with deep learning (DL) to analyze hand function at home. In order to support the impact of this work, the student will contribute to developing automation pipelines to deploy DL solutions and increase their accessibility to clinical researchers.
What specific skills are you looking for in summer student(s)?	Software engineering; familiarity with deep learning models and frameworks; demonstrated ability to produce well organized and documented code.
What is the primary location of research?	KITE Research Institute - Toronto Rehab - University Health Network
Where will the student's research be conducted?	In Lab
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #9

POTENTIAL SUPERVISOR'S INFORMATION

Name	Melanie Courtot
Preferred email address	mcourtot@oicr.on.ca
What is your primary university/hospital/research institution affiliation?	Ontario Institute for Cancer Research
What is primary department you're appointed to/affiliated with?	Genome Informatics
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Data Science and Computational Biology AI/LLMs Data representation and curation
Where can students learn more about the your research work?	https://courtotlab.genomeinformatics.org/
Briefly describe the research that the student(s) will be involved in.	OICR maintains a number of large genomics databases for national and international collaboration projects. Exchanging data with our collaborators involves complex data harmonization efforts in which divergent database schemas and contents are made compatible. This is usually a manual process, as computers traditionally struggle with recognizing semantic connections between concepts. However, vector embeddings learned by large language models have enabled straightforward semantic similarity calculations. We have recently begun using these embeddings to assist with automatic data harmonization. The student will assist with expanding these efforts to not only harmonize column names but also the data stored within them.
What specific skills are you looking for in summer student(s)?	Required: some programming experience in Python Desired: Biological background and experience with neural networks Interested in learning about machine learning and working collaboratively in a small research lab, coupled to a large software engineering team.
What is the primary location of research?	OICR, MaRS building, Toronto
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #10

POTENTIAL SUPERVISOR'S INFORMATION

Name	Olga Bougie
Preferred email address	olga.bougie@sinaihealth.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Obstetrics and Gynecology
What is your Appointment level?	- Associate Professor
What are your primary research interests?	endometriosis benign gynecology uterine fibroids surgical outcomes
Where can students learn more about the your research work?	https://obgyn.utoronto.ca/faculty/olga-bougie
Briefly describe the research that the student(s) will be involved in.	<p>The proposed project is to develop a model to predict perioperative complications following hysterectomy for benign or malignant gynecologic conditions. The NSQIP targeted hysterectomy dataset (2005-2023) will be used to develop and validate machine learning models that predict 30-day postoperative outcomes using preoperative data.</p> <p>Models will be stratified into four categories of patient populations based on hysterectomy indication: 1) malignancy, 2) endometriosis, 3) pelvic organ prolapse and 4) other benign indications</p>
What specific skills are you looking for in summer student(s)?	computer programming familiarity with risk prediction models some clinical expertise in surgical gynecology
What is the primary location of research?	Mount Sinai Health System
Where will the student's research be conducted?	Remotely
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	Yes
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	No, but I will register on the T-CAIREM website

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #11

POTENTIAL SUPERVISOR'S INFORMATION

Name Milad Lankarany

Preferred email address milad.lankarany@uhn.ca

What is your primary university/hospital/research institution affiliation? UHN-University Health Network

What is primary department you're appointed to/affiliated with? Biomedical Engineering (UofT)

What is your Appointment level? - Assistant Professor

What are your primary research interests?
Computational Neuroscience, Deep Brain Stimulation, Neuro-AI, Neurotech

Where can students learn more about the your research work? <https://kcnhub.com/member/milad-lankarany>

Briefly describe the research that the student(s) will be involved in.
Given the unique neurophysiological data of deep brain regions in patients with movement disorders, we aim to develop biophysically augmented AI methods, inspired by, e.g., Denoising Diffusion Probabilistic Models, to model complex high-dimensional neurophysiological recordings, including EEG, ECoG, and LFP. The method is expected to capture single- and multi-channel statistics, such as frequency spectra and phase-amplitude coupling.

Using this methodology, we will generate synthetic time series conditioned on experimental conditions or brain states.

We anticipate that our approach demonstrates utility in brain-state classification and imputation of missing channels for improved neural decoding.

What specific skills are you looking for in summer student(s)?
Knowledge and experience with basic concepts in Computational Neuroscience, Deep Learning. Of note, the research proposed here will involve Reinforcement Learning and time-series analysis.

What is the primary location of research? Krembil Brain Institute - Toronto Western hospital

Where will the student's research be conducted? Combination of both

Supervisor Commitment
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.

Have you read and AGREE to the Supervisor Commitment? Yes

Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM. Yes

Have you contributed a dataset?

T-CAIREM membership
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [<https://directory.tcairem.ai/>]

Are you a T-CAIREM member? Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #12

POTENTIAL SUPERVISOR'S INFORMATION

Name	Ilitea Kina
Preferred email address	ilitea.kina@usherbrooke.ca
What is your primary university/hospital/research institution affiliation?	Sunnybrook Health Sciences Centre
What is primary department you're appointed to/affiliated with?	Emergency Department
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Emergency operations, explainable AI, prediction, overcrowding, agentic AI
Where can students learn more about the your research work?	https://ca.linkedin.com/in/ilitea-kina-278922235
Briefly describe the research that the student(s) will be involved in.	<p>ED Overcrowding Prediction Model: Students will help refine a gradient-boosting model that predicts ED overcrowding at 24-hour horizons. Tasks include preprocessing real-time variables, generating lagged features, evaluating model performance, and exploring explainability methods. Students may also assist in building or testing dashboard components to translate predictions into actionable clinical insights.</p> <p>Patient Self-Assessment Tool: Students will help develop and evaluate a structured symptom-assessment tool used by ED patients. This includes improving question logic, analyzing usage logs, validating data quality, and exploring how patient-reported data can augment triage and prediction models. Students may also participate in testing UI/UX iterations.</p>
What specific skills are you looking for in summer student(s)?	<p>Strong interest in healthcare AI, data science, and real-world clinical applications</p> <p>Experience with Python (Pandas, NumPy; scikit-learn or XGBoost is a plus)</p> <p>Ability to work with structured datasets and perform reproducible analysis</p> <p>Interest in UI/UX, dashboard development, or security/ethics of clinical AI tools</p>
What is the primary location of research?	Sunnybrook Emergency
Where will the student's research be conducted?	Remotely
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	No, but I will register on the T-CAIREM website

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #13

POTENTIAL SUPERVISOR'S INFORMATION

Name	Samah Hassan
Preferred email address	samah.hassan@uhn.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	IHPME
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Integrating Artificial Intelligence in Community-based Settings: Enhancing Inclusiveness, Diversity, Equity, and Accessibility
Where can students learn more about the your research work?	https://scholar.google.ca/citations?user=orbaLMcAAAj&hl=en&oi=ao
Briefly describe the research that the student(s) will be involved in.	Realist Evaluations, assessing real world Impact of integrating AI in Community-based Settings: Enhancing Inclusiveness, Diversity, Equity, and Accessibility
What specific skills are you looking for in summer student(s)?	Critical Thinking, Realist evaluations, Knowledge mobilization and health technology assessment
What is the primary location of research?	UHN
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.	
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	
Have you contributed a dataset?	No
T-CAIREM membership	
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]	
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #14

POTENTIAL SUPERVISOR'S INFORMATION

Name	Errol Colak
Preferred email address	Errol.Colak@UnityHealth.to
What is your primary university/hospital/research institution affiliation?	Unity Health
What is primary department you're appointed to/affiliated with?	Medical Imaging
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Clinical AI in medical imaging, human-AI interaction, deployment and evaluation, education, skill acquisition and retention, open datasets.
Where can students learn more about the your research work?	https://scholar.google.ca/citations?user=hO67vHUAAA&hl=en&oi=ao
Briefly describe the research that the student(s) will be involved in.	The student will examine how the use of AI influences the acquisition, maintenance, and loss of clinical skills in medical imaging. Through a literature review, they will synthesize evidence on AI-enhanced practice versus deskilling, as well as AI-enhanced skill acquisition versus "never-skilling," and explore underlying mechanisms. Drawing on real-world AI systems used in radiology (e.g. prostate MRI and chest radiography), the student will help develop an evaluation framework and identify best practices for integrating AI into medical training, including when and how trainees should use AI. Findings will inform future curriculum design in an AI-enabled clinical environment.
What specific skills are you looking for in summer student(s)?	Strong interest in AI in healthcare, critical appraisal, and education. Excellent written communication, curiosity, and ability to synthesize literature. Experience in imaging, psychology, biomedical sciences, or computer science is helpful but not required. Motivation and attention to detail are more important than prior technical expertise.
What is the primary location of research?	St. Michael's Hospital with flexible hybrid work.
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	Yes
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #15

POTENTIAL SUPERVISOR'S INFORMATION

Name	Errol Colak
Preferred email address	Errol.Colak@UnityHealth.to
What is your primary university/hospital/research institution affiliation?	Unity Health
What is primary department you're appointed to/affiliated with?	Medical Imaging
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Clinical AI in medical imaging, human-AI interaction, deployment and evaluation, education, skill acquisition and retention, open datasets.
Where can students learn more about the your research work?	https://scholar.google.ca/citations?user=hO67vHUAAA&hl=en&oi=ao
Briefly describe the research that the student(s) will be involved in.	The student will investigate governance practices for selecting, deploying, and monitoring AI systems in medical imaging. Through a systematic or scoping review, they will analyze empirical evidence describing how institutions evaluate AI tools, validate them clinically, integrate them into workflows, and track performance over time. Rather than relying on opinion pieces, the project will focus on real-world data: implementation outcomes, safety issues, performance drift, and oversight strategies. The student will synthesize these findings to identify evidence-based best practices and gaps, informing practical governance frameworks for safe, accountable AI deployment in radiology.
What specific skills are you looking for in summer student(s)?	Strong interest in AI governance, imaging workflows, and clinical implementation. Excellent analytical and writing abilities, curiosity, and attention to detail. Experience with literature reviews, policy, biomedical sciences, computer science, or health informatics is helpful but not required. Motivation and willingness to engage with complex interdisciplinary topics are essential.
What is the primary location of research?	St. Michael's Hospital with flexible hybrid work.
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	Yes
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #16

POTENTIAL SUPERVISOR'S INFORMATION

Name	Chung-Wai Chow
Preferred email address	cw.chow@utoronto.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Medicine
What is your Appointment level?	- Full Professor - TAHSN-affiliated Scientist
What are your primary research interests?	respiratory oscillometry, pulmonary function tests, lung physiology, machine learning, AI-enabled interpretation
Where can students learn more about the your research work?	https://www.uhnresearch.ca/researcher/chung-wai-chow
Briefly describe the research that the student(s) will be involved in.	<p>We have developed several machine learning algorithms to interpret pulmonary function tests (PFT). One uses metrics derived from a commonly used PFT called spirometry. The second uses metrics from a new PFT modality called respiratory oscillometry.</p> <p>Depending on the student's interest, s/he will work with either the spirometry or oscillometry machine learning algorithm. The primary focus during the summer will be to validate the algorithm with previously unseen data, and to refine the algorithm.</p>
What specific skills are you looking for in summer student(s)?	coding skills (Python, R); programming framework, interest in lung physiology; attention to detail
What is the primary location of research?	St. George Campus and Toronto General Hospital
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #17

POTENTIAL SUPERVISOR'S INFORMATION

Name	Chris Sun
Preferred email address	sun@telfer.uottawa.ca
What is your primary university/hospital/research institution affiliation?	Ottawa Hospital Research Institute
What is primary department you're appointed to/affiliated with?	Ottawa Heart Institute/University of Ottawa
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Applied Machine Learning, Applied Deep Learning, Operations Research, Health Management, Health equity
Where can students learn more about the your research work?	https://www.ottawaheart.ca/profile/sun-christopher
Briefly describe the research that the student(s) will be involved in.	<p>The student(s) will be involved in AI-driven research projects at the University of Ottawa Heart Institute, focusing on model development and implementation. These projects include: 1) developing machine learning models to predict in-hospital cardiac arrest in collaboration with Montefiore Medical Centre and The Ottawa Hospital; 2) creating actionable AI algorithms for ECG data analysis, with a focus on risk prediction, interpretability, and personalized treatment decisions; 3) refining and applying vision-language models to detect incidental findings from cardiac CT scans for improved diagnosis and patient management; 4) cardiac operating room scheduling optimization and predictive modeling to improve system efficiency.</p>
What specific skills are you looking for in summer student(s)?	<p>Background in Computer Science, Electrical Engineering, Industrial Engineering, Operations Research, or related fields</p> <p>Strong programming skills in Python, R, or other general-purpose programming languages</p> <p>Expertise in optimization and/or machine and deep learning (e.g., image recognition, NLP)</p> <p>Strong communication skills and ability to work well in interdisciplinary research teams</p>
What is the primary location of research?	Ottawa
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.	
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]	
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #18

POTENTIAL SUPERVISOR'S INFORMATION

Name	Christopher Yao
Preferred email address	christophermkl.yao@uhn.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	Department of Otolaryngology Head and Neck Surgery
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Application of AI, digital health, computer vision, advanced data analytics in head and neck surgical oncology.
Where can students learn more about the your research work?	https://discover.research.utoronto.ca/38621-christopher-yao
Briefly describe the research that the student(s) will be involved in.	The summer student will work on developing AI tools that directly support clinical decision-making in head and neck cancer care. Projects may involve advancing imaging-based models to predict which patients are optimal surgical candidates, including refining and validating existing autosegmentation and diagnostic algorithms. Alternatively, the student may contribute to building natural-language-based triage systems that automatically review referral notes to identify high-priority patients on the waitlist. Both streams offer hands-on experience in designing, coding, and evaluating decision-support models, with an emphasis on real-world clinical impact and model translation into practice.
What specific skills are you looking for in summer student(s)?	<ol style="list-style-type: none">1. Programming proficiency (Python preferred; R/SQL a plus)2. Foundational machine learning skills (model development and evaluation)3. Strong understanding of medical image analysis and auto-segmentation workflows4. Self-starter with excellent independence and initiative5. Strong problem-solving and rapid learning ability, quickly mastering new methods and tools
What is the primary location of research?	University Health Network, Toronto General Hospital, Toronto
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	Yes
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #19

POTENTIAL SUPERVISOR'S INFORMATION

Name	Jordan Pelc
Preferred email address	jordan.pelc@sinaihealth.ca
What is your primary university/hospital/research institution affiliation?	Mount Sinai Hospital
What is primary department you're appointed to/affiliated with?	Family and Community Medicine
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Digital Health Medical informatics Workflow optimization Decision support Prediction of deterioration
Where can students learn more about the your research work?	https://www.sinaihealth.ca/physicians/jordan-pelc
Briefly describe the research that the student(s) will be involved in.	Our group has developed a novel AI model for patient deterioration at our post-acute hospital. We are now looking to implement this model into real-world clinical workflows to provide decision-support to doctors and nurses. We are uniquely positioned to do so, because there is an anticipated EMR upgrade at our hospital, which will allow redevelopment of clinical workflows. We will ask students to help map current workflows, observe and interview clinicians as new workflows are piloted, and analyze data from piloted novel workflows to help determine next steps.
What specific skills are you looking for in summer student(s)?	Excellent interpersonal skills Excellent oral and written communication skills Familiarity with inpatient clinical environments Clinical observations (we will train students) Workflow mapping (we will train students)
What is the primary location of research?	Hennick Bridgepoint Hospital
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM. Have you contributed a dataset?	No
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #20

POTENTIAL SUPERVISOR'S INFORMATION

Name	Haibo Zhang
Preferred email address	haibo.zhang@unityhealth.to
What is your primary university/hospital/research institution affiliation?	Unity Health
What is primary department you're appointed to/affiliated with?	Anaesthesia and Critical Care Medicine
What is your Appointment level?	- Full Professor
What are your primary research interests?	Lung injury/Repair/Regeneration; Mechanical ventilation; Sepsis; cell therapy; AI in Critical Care
Briefly describe the research that the student(s) will be involved in.	Enhancing mechanical ventilation decision support system through machine learning and bioimaging. This study explores the integration of machine learning into a decision support system for mechanical ventilation, leveraging bioimaging techniques. The aim is to enhance the precision and effectiveness of mechanical ventilation through the intelligent analysis of relevant biological images.
What specific skills are you looking for in summer student(s)?	<ol style="list-style-type: none">1. Machine Learning Expertise: Machine learning techniques for developing and implementing algorithms.2. Bioimaging Techniques: Basic knowledge of bioimaging techniques.3. Critical Thinking and Problem-Solving: Ability to approach complex problems.4. Team Collaboration: Capacity to collaborate with team members.5. Communication Skills: Strong written and verbal communication skills.
What is the primary location of research?	St. Michael's Hospital
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM. Have you contributed a dataset?	No
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #21

POTENTIAL SUPERVISOR'S INFORMATION

Name	Mark Bayley
Preferred email address	mark.bayley@uhn.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	KITE Research institute, Division of Physical Medicine and Rehabilitation
What is your Appointment level?	- Full Professor - TAHSN-affiliated Scientist
What are your primary research interests?	Concussion, Brain injury recovery, Stroke recovery, Technology-assisted rehabilitation including robotics, virtual reality and telerehabilitation, Prognostication
Where can students learn more about the your research work?	https://docmarkbayley.com
Briefly describe the research that the student(s) will be involved in.	This project involves the development of an Artificial intelligence enhanced avatar to conduct screening evaluations of people with concussion. The student will continue work underway to enhance and test a prototype that has been developed to determine patient and use experience, validity of the avatar-performed assessments compared with physicians in our Concussion clinic. The avatar will be used prior to an assessment in our clinic and then the individual will be assessed by our physicians.
What specific skills are you looking for in summer student(s)?	The student ideally should have some coding experience and familiarity with Large language models in use with Artificial Intelligence. Experience in research or product development and statistics would be an asset.
What is the primary location of research?	UHN-Toronto Rehab, Hull Ellis Concussion Research clinic, 550 University Avenue, Toronto
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #22

POTENTIAL SUPERVISOR'S INFORMATION

Name	Sushant Kumar
Preferred email address	sushant.kumar@uhn.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	Princess Margaret Cancer Centre
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	computational biology and cancer genomics
Briefly describe the research that the student(s) will be involved in.	Building multi-modal machine learning framework to study precursors of breast cancer
What specific skills are you looking for in summer student(s)?	machine learning image processing programming
What is the primary location of research?	PMCRT building
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #23

POTENTIAL SUPERVISOR'S INFORMATION

Name	Samir Grover
Preferred email address	sgrover@shn.ca
What is your primary university/hospital/research institution affiliation?	SHN-Scarborough Health Network
What is primary department you're appointed to/affiliated with?	Academics (Research and Education) / Gastroenterology
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Simulation-based endoscopy education, Competency-based medical education, Performance assessment and feedback, AI-enabled tools for learning and clinical decision support, Gastrointestinal Endoscopy
Where can students learn more about the your research work?	https://groverlab.ca
Briefly describe the research that the student(s) will be involved in.	SHN runs the "Summer of Vibes" summer research program. We are seeking a motivated student who will contribute to the following projects: (1) Performance Assessment System, an AI-driven device that evaluates healthcare trainees' communication and clinical skills using audio, video, and clinical notes; (2) Virtual Standardized Patient Platform, an AI-driven practice tool that includes customizable standardized patient scenarios; and (3) a Digital Twin of the SHN Emergency Department to forecast equipment, medication, and/or staffing needs. The student will also have the chance to explore their own AI solution to healthcare gaps and present during our annual Grand Demo Day.
What specific skills are you looking for in summer student(s)?	Required skills include (1) strong communication (oral and written) skills; (2) analytical and research abilities are needed for data testing and interpretation; (3) organization and project management skills to meet deliverables, (4) technical skills including beginner-level coding or willingness to vibe code, (5) interest in simulation, AI, and UX.
What is the primary location of research?	SHN - Centenary Hospital - Toronto, ON
Where will the student's research be conducted?	In Lab
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #24

POTENTIAL SUPERVISOR'S INFORMATION

Name	Karim Ladha
Preferred email address	karim.ladha@wchospital.ca
What is your primary university/hospital/research institution affiliation?	Women's College Hospital
What is primary department you're appointed to/affiliated with?	Anesthesia
What is your Appointment level?	- Associate Professor
What are your primary research interests?	perioperative medicine, loneliness, pain, mental health, psychedelics
Briefly describe the research that the student(s) will be involved in.	Social connection is a powerful yet underrecognized determinant of health, particularly for older adults. Despite being modifiable, social connection remains overlooked in surgical care. To address this, we propose CARIS: an AI-powered chatbot that delivers personalized information and social support to enhance patient connection, improve outcomes, and reimagine the perioperative experience for socially isolated and lonely older adult patients.
What specific skills are you looking for in summer student(s)?	Ideally we are seeking someone with experience working with large language models. Strong writing skills are a plus. If the student has an interest in clinical medicine, the student can also shadow physicians in the operating room and clinic.
What is the primary location of research?	Women's College Hospital
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	No, but I will register on the T-CAIREM website

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #25

POTENTIAL SUPERVISOR'S INFORMATION

Name	Joshua Landy
Preferred email address	jlandy@shn.ca
What is your primary university/hospital/research institution affiliation?	SHN-Scarborough Health Network
What is primary department you're appointed to/affiliated with?	Research / Critical Care
What is your Appointment level?	- TAHSN-affiliated Scientist
What are your primary research interests?	Digital health innovation, AI, clinical education and medical knowledge sharing platforms, simulation-based training, clinical decision support
Where can students learn more about the your research work?	https://www.linkedin.com/in/%F0%9F%A9%BA-joshua-landy-md-2984176a/?originalSubdomain=ca
Briefly describe the research that the student(s) will be involved in.	The student will support key innovation projects at SHN including (1) an AI-driven virtual standardized patient platform equipped with a performance assessment system for formative feedback, (2) the ContextCare project which formats discharge summaries for patient readability, and (3) an AI platform that assists medical learners in reviewing educational content. The role involves close collaboration with clinicians, developers, and may include patient interaction.
What specific skills are you looking for in summer student(s)?	(1) strong writing and verbal communication, (2) analytical skills, (3) attention to detail, (4) Basic data and tech literacy, including hard coding or vibe coding, (5) project organization skills for managing app versions, documentation, and meeting deadlines.
What is the primary location of research?	SHN - Centenary Hospital - Toronto, ON
Where will the student's research be conducted?	In Lab
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	No, but I will register on the T-CAIREM website

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #26

POTENTIAL SUPERVISOR'S INFORMATION

Name	Aleksandrina Goeva
Preferred email address	alexandrina.goeva@gmail.com
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Donnelly Centre
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	single-cell genomics, machine learning, generative models, disease modeling, biomedical AI
Where can students learn more about the your research work?	https://thedonnellycentre.utoronto.ca/faculty/aleksandrina-goeva
Briefly describe the research that the student(s) will be involved in.	Generative models are increasingly used to infer unobserved or counterfactual gene expression in single-cell data, but systematic benchmarks of their behavior remain limited. This project will evaluate recent models such as LEMUR, GEDI, InVAE, Kompot, CausCell, and scVI models by assessing how stable their outputs are when imputed values are recursively reintroduced as inputs. This "predict-reinject-repredict" loop allows us to quantify how different model parametrizations behave across data modes (continuous vs discrete covariates, unknown mixture states, donor effects, etc.). The project will generate a stability-based benchmark that can guide researchers in selecting appropriate models for different biological contexts.
What specific skills are you looking for in summer student(s)?	I am looking for a student with strong Python skills, familiarity with machine learning libraries (e.g., PyTorch or scikit-learn), and interest in computational biology. Experience with single-cell data analysis, benchmarking, or generative models is helpful but not required. Curiosity, reliability, and clear communication are essential.
What is the primary location of research?	University of Toronto, Toronto
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #27

POTENTIAL SUPERVISOR'S INFORMATION

Name	Aleksandrina Goeva
Preferred email address	alexandrina.goeva@gmail.com
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Donnelly Centre
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	single-cell genomics, disease modeling, multimodal data integration, machine learning, leukemia
Where can students learn more about the your research work?	https://thedonnellycentre.utoronto.ca/faculty/aleksandrina-goeva
Briefly describe the research that the student(s) will be involved in.	<p>This project focuses on understanding mixed-phenotype acute leukemia (MPAL) through computational modeling of single-cell multi-omic data. Using the HiDDEN framework developed in the Goeva Lab, the student will analyze disease-continuum effects in MPAL cells, identify unaffected and malignant subsets, and explore the molecular states underlying leukemic heterogeneity. The student will also contribute to developing and benchmarking a scalable, condition-aware label-projection method that integrates healthy atlas references with disease data to improve cell-type prediction accuracy. This work addresses an important challenge in AI-driven biomedical analysis: disentangling disease effects from cell-identity signals in high-dimensional single-cell datasets.</p>
What specific skills are you looking for in summer student(s)?	<p>I am looking for a student with strong Python skills, interest in machine learning, and basic familiarity with single-cell or biomedical data analysis. Experience with data preprocessing, visualization, or multimodal omics is helpful but not required. Curiosity, attention to detail, and clear communication are essential for this project.</p>
What is the primary location of research?	University of Toronto. Toronto
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.	
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]	
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #28

POTENTIAL SUPERVISOR'S INFORMATION

Name	Mohammad Noaen
Preferred email address	m.noaen@utoronto.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Dalla Lana School of Public Health
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	AI for health, clinical prediction modeling
Where can students learn more about the your research work?	https://ihpme.utoronto.ca/faculty-profile/noaen-mohammad/
Briefly describe the research that the student(s) will be involved in.	The student will work on OX NERVE, a project that predicts which colorectal cancer patients develop oxaliplatin related neuropathy. The student will clean and harmonize data from several FOLFOX clinical trials and will define neuropathy outcomes and build and validate risk prediction models. Methods will include logistic and survival models and modern machine learning with attention to calibration, subgroup performance and decision curves. The student will also help translate the final model into a simple clinical risk score that can support dose decisions across independent trials.
What specific skills are you looking for in summer student(s)?	Strong R or Python programming, experience with regression and survival analysis, interest in oncology and treatment toxicity, comfort working with large clinical datasets, good communication and writing skills.
What is the primary location of research?	Institute of Health Policy, Management and Evaluation
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #29

POTENTIAL SUPERVISOR'S INFORMATION

Name Divya Sharma

Preferred email address div.sharma@utoronto.ca

What is your primary university/hospital/research institution affiliation? York University

What is primary department you're appointed to/affiliated with? Mathematics and Statistics

What is your Appointment level? - Assistant Professor

What are your primary research interests?
Machine Learning for Clinical Decision Support, Multimodal and Generative AI in Health, Reinforcement Learning, Agentic AI, AI Ethics

Where can students learn more about the your research work? <https://divya-sharma-york.github.io/>

Briefly describe the research that the student(s) will be involved in.
The student(s) will be involved in research at the intersection of Generative AI and Reinforcement Learning for healthcare applications. This work may include developing or evaluating generative models to simulate clinical or biological data, exploring how RL agents can support sequential clinical decision-making, and integrating genAI outputs into RL-driven frameworks. Students will assist with data preprocessing, model implementation, and experimental evaluation, while also engaging with concepts such as safety, fairness, and explainability in AI-for-health. The project provides hands-on experience with cutting-edge AI methods in a multidisciplinary clinical research environment.

What specific skills are you looking for in summer student(s)?
Strong Python programming skills and experience working with machine learning frameworks such as PyTorch or TensorFlow. Solid understanding of deep learning fundamentals and preferably some exposure to generative models or reinforcement learning algorithms. Read and interpret technical papers, run model experiments, and communicate results clearly.

What is the primary location of research? York University

Where will the student's research be conducted? Remotely

Supervisor Commitment
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.

Have you read and AGREE to the Supervisor Commitment? Yes

Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM. No

Have you contributed a dataset?

T-CAIREM membership
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [<https://directory.tcairem.ai/>]

Are you a T-CAIREM member? Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #30

POTENTIAL SUPERVISOR'S INFORMATION

Name	Samir Sinha
Preferred email address	samir.sinha@sinahealth.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Medicine
What is your Appointment level?	- Full Professor
What are your primary research interests?	healthy ageing, geriatrics, health services and health policy research, digital literacy, dementia, caregiver support, AI ethics, care robots, decision-aids
Where can students learn more about the your research work?	https://NIAgeing.ca
Briefly describe the research that the student(s) will be involved in.	<p>Increasing numbers of older Canadians are using non-regulated AI-enabled tools for health advice, putting their privacy and personal safety at increased risk. Older adults are also particularly susceptible to harms posed by the poor development and use of AI.</p> <p>The goal of this project is to address the informational needs of older adults to support their safer engagement with AI tools.</p> <p>We propose working with older adults and AI technology developers to co-produce needed educational resources to effectively facilitate a more meaningful understanding of AI</p>
What specific skills are you looking for in summer student(s)?	<p>We want to engage students who want to develop qualitative research skills, to review the existing literature, and focus groups transcripts of discussions with older adults that could help inform the development of guidance that could better support the understanding and safer use of AI technologies in their daily activities.</p>
What is the primary location of research?	National Institute on Ageing, Toronto
Where will the student's research be conducted?	Remotely
Supervisor Commitment	<p>Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.</p>
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	<p>Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]</p>
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #31

POTENTIAL SUPERVISOR'S INFORMATION

Name	Samir Sinha
Preferred email address	samir.sinha@sinaihealth.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Medicine
What is your Appointment level?	- Full Professor
What are your primary research interests?	healthy ageing, geriatrics, health services and health policy research, digital literacy, dementia, caregiver support, AI ethics, care robots, decision-aids
Where can students learn more about the your research work?	https://NIAgeing.ca
Briefly describe the research that the student(s) will be involved in.	<p>With at least 1M Canadians expected to be living with dementia by 2030 and beyond, there caregivers are one who will need access to 24/7 sources of support that can provide accurate and timely advice when its needed most.</p> <p>We are developing the first know AI caregiver chatbot that will be able to provide the often urgent and timely advice that can support caregivers supporting people with dementia.</p> <p>We are currently beta-testing our website with actual dementia caregivers to see what would be most useful for them, and how should this tool be better adapted to best their needs.</p>
What specific skills are you looking for in summer student(s)?	We are looking for summer students that want to further develop their qualitative research skills to review focus group transcripts and the feedback that several dozen caregivers will be looking to share to better inform and improve our public resource aimed at supporting caregivers of people living with dementia.
What is the primary location of research?	National Institute on Ageing, Toronto
Where will the student's research be conducted?	Remotely
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	No, but I will register on the T-CAIREM website

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #32

POTENTIAL SUPERVISOR'S INFORMATION

Name	Certina Ho
Preferred email address	certina.ho@utoronto.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Leslie Dan Faculty of Pharmacy
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Patient/medication safety: incident reporting and analysis. Quality improvement in health care. Scholarship of teaching and learning. Program evaluation.
Where can students learn more about the your research work?	https://discover.research.utoronto.ca/1452-certina-ho
Briefly describe the research that the student(s) will be involved in.	Student will develop a new algorithm (e.g., based on natural language processing) to support multi-incident analysis (MIA) in reviewing and analyzing medication incidents anonymously reported by community pharmacies in Canada. MIA is currently a manual process (https://www.healthcareexcellence.ca/media/gilnw3uy/canadian-incident-analysis-framework-final-ua.pdf) conducted by medication safety analysts using qualitative thematic analysis and it is quite time-consuming. An AI algorithm using NLP would assist in streamlining this reporting and learning initiative in advancing medication safety in Canadian health care.
What specific skills are you looking for in summer student(s)?	Natural language processing, medication incident analysis, qualitative thematic analysis
What is the primary location of research?	University of Toronto
Where will the student's research be conducted?	Remotely
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #33

POTENTIAL SUPERVISOR'S INFORMATION

Name	APURVA NARAYAN
Preferred email address	apurva.narayan@uwo.ca
What is your primary university/hospital/research institution affiliation?	Western University
What is primary department you're appointed to/affiliated with?	Computer Science
What is your Appointment level?	- Associate Professor
What are your primary research interests?	AI for Health, AI for Science and Safe AI
Where can students learn more about the your research work?	https://anarayan.com

Briefly describe the research that the student(s) will be involved in.

The student(s) will conduct research on developing and validating voice biomarkers for health and cognitive assessment. This work involves collecting and preprocessing voice recordings, extracting acoustic and linguistic features, and applying machine learning models to identify patterns associated with specific physiological or psychological states. Students will investigate features such as pitch, jitter, prosody, and spectral signatures, and evaluate their correlation with clinical or behavioral outcomes. The project includes building predictive models, performing statistical analysis, and contributing to a scalable pipeline for real-time voice-based diagnostics. This research aims to advance non-invasive, accessible tools for early detection and continuous health monitoring.

What specific skills are you looking for in summer student(s)?

We seek students with strong analytical and programming skills, preferably in Python. Experience with signal processing, machine learning, or speech analysis is an asset. Curiosity, attention to detail, and the ability to work independently and collaboratively are essential. Strong communication skills and an interest in health-focused AI research.

What is the primary location of research?	Western University
Where will the student's research be conducted?	Remotely

Supervisor Commitment

Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.

Have you read and AGREE to the Supervisor Commitment? Yes

Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM. No

Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.

Have you contributed a dataset?

T-CAIREM membership

Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [<https://directory.tcairem.ai/>]

Are you a T-CAIREM member? Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #34

POTENTIAL SUPERVISOR'S INFORMATION

Name	Azadeh Yadollahi
Preferred email address	azadeh.yadollahi@uhn.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	KITE-Toronto Rehabilitation Institute
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Machine learning, signal processing, smart wearables, textile-based technologies, cardiorespiratory health
Where can students learn more about the your research work?	https://kite-uhn.com/lab/sleepdB
Briefly describe the research that the student(s) will be involved in.	<p>Project 1: Development of a foundation model for the early prediction of prolonged apnea using advanced deep learning techniques for time-series analysis.</p> <p>Project 2: Design of a transfer-learning-based analytical pipeline to predict prolonged apnea within a specified patient population, enabling model adaptation across cohorts.</p> <p>Project 3: Validating a deep learning framework for quantifying the risk of postoperative opioid-induced respiratory depression, with emphasis on clinical applicability and predictive reliability.</p> <p>Project 4: Developing a machine learning pipeline for classification of respiratory events based on EEG and ECG extracted features.</p> <p>Project 5: Developing machine learning models to detect voice biomarkers for sleep apnea</p>
What specific skills are you looking for in summer student(s)?	Programming, analytical thinking, hands-on experience with machine/deep learning model development
What is the primary location of research?	KITE-Toronto Rehabilitation Institute
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #35

POTENTIAL SUPERVISOR'S INFORMATION

Name	Houman Khosravani
Preferred email address	houman@stroke.dev
What is your primary university/hospital/research institution affiliation?	Sunnybrook Health Sciences Centre
What is primary department you're appointed to/affiliated with?	Div. Neurology, Dept. of Medicine
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Our ML-lab focuses on assistive technology. We work on voice as a biomarker, and generative AI to augment sensory-loss.
Where can students learn more about the your research work?	https://uoftneurology.github.io/
Briefly describe the research that the student(s) will be involved in.	You are going to be an active lab member. As part of your role, you will continue to work with us to develop Project PAL-MASA (palliative care, machine learning assisted swallowing assessment). This project will use CNNs/Vision Transformers for enhancing actual and synthetic data to provide dysphagia detection by analyzing their speech continuously. You will be building upon our framework to further improve models with dietary-based labeling. We have approval from REB and funding from AFP for this work. You will also receive guidance and support from our multidisciplinary team and enjoy working in our dynamic, creative lab.
What specific skills are you looking for in summer student(s)?	-great team player, interest in neuroscience and complexity science are welcome -interest in ML for health as applied to quality improvement -deep learning - proficiency in python, algorithms and commonly used frameworks -data science concepts, familiarity with data preprocessing, feature extraction from sources such as audio and image data
What is the primary location of research?	Hybrid/Sunnybrook Health Sciences Centre
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	
Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.	
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	
Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]	
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #36

POTENTIAL SUPERVISOR'S INFORMATION

Name	Ameen Amanian
Preferred email address	ma.amanian@gmail.com
What is your primary university/hospital/research institution affiliation?	University of British Columbia
What is primary department you're appointed to/affiliated with?	Otolaryngology
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	Personalized medicine in head and neck oncology Robotic surgery Large language models in patient education
Briefly describe the research that the student(s) will be involved in.	The student will contribute to the development of an automated segmentation pipeline for oropharyngeal squamous cell carcinoma using contrast-enhanced CT and PET/CT imaging of tonsil and base of tongue tumors and associated cervical lymph nodes. These segmentations will support high-dimensional radiomics feature extraction and machine learning models predicting treatment response, extranodal extension, survival, and recurrence. The project will aim to include internal and external model validation and to produce a robust, clinically translational workflow for preoperative planning and surgical decision support. The student will gain experience in medical image preprocessing, segmentation algorithms, radiomics, and predictive modeling.
What specific skills are you looking for in summer student(s)?	Development and validation of deep learning architectures for automated image segmentation in CT, MRI, and PET/CT scans
What is the primary location of research?	University of British Columbia, Vancouver
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #37

POTENTIAL SUPERVISOR'S INFORMATION

Name	April Khademi
Preferred email address	akhademi@torontomu.ca
What is your primary university/hospital/research institution affiliation?	Toronto Metropolitan University
What is primary department you're appointed to/affiliated with?	Electrical, Computer and Biomedical Engineering
What is your Appointment level?	- Associate Professor
What are your primary research interests?	Medical Imaging AI/ML Radiology Pathology
Where can students learn more about the your research work?	https://www.torontomu.ca/akhademi
Briefly describe the research that the student(s) will be involved in.	Design, develop and deploy AI/ML tools for medical imaging (radiology and pathology images)
What specific skills are you looking for in summer student(s)?	Python coding Stats Imaging experience
What is the primary location of research?	TMU
Where will the student's research be conducted?	Combination of both
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #38

POTENTIAL SUPERVISOR'S INFORMATION

Name	Christopher Noel
Preferred email address	christopher.noel@uhn.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	Otolaryngology - Head & Neck Surgery
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	AI-enabled symptom surveillance, voice restoration, health services research to improve real-time monitoring, outcomes, equity in head and neck cancer.
Where can students learn more about the your research work?	https://www.ices.on.ca/ices-scientists/christopher-noel/
Briefly describe the research that the student(s) will be involved in.	Students will contribute to a mixed-methods research program evaluating emerging AI-enabled voice-assistive technologies for patients with significant voice impairment after head and neck cancer treatment. This includes studying tools such as Google's Project Relate and next-generation bionic artificial larynx systems. Responsibilities will include patient accrual and consent, chart review, data abstraction, and supporting the Princess Margaret Voice Biobank. Students will also engage in qualitative interviews, transcript coding, and thematic analysis, as well as assist with quantitative data management and preliminary analyses. This role offers hands-on exposure to digital health innovation, clinical AI, and functional outcomes research.
What specific skills are you looking for in summer student(s)?	Looking for students interested in clinical epidemiology and mixed-methods research, with skills in study accrual, patient interaction, chart review, and data abstraction. Experience with qualitative interviewing, coding, or basic quantitative analysis (R/Python/Excel) is helpful but not required. Strong organization, attention to detail, and willingness to learn are essential.
What is the primary location of research?	The Princess Margaret Cancer Centre
Where will the student's research be conducted?	In Lab
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	No
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #39

POTENTIAL SUPERVISOR'S INFORMATION

Name	Artem Babaian
Preferred email address	a.babaian@utoronto.ca
What is your primary university/hospital/research institution affiliation?	University of Toronto
What is primary department you're appointed to/affiliated with?	Molecular Genetics
What is your Appointment level?	- Assistant Professor
What are your primary research interests?	plastic-degrading enzymes, genomics, cloud computing, protein optimization
Where can students learn more about the your research work?	https://RNALab.ca
Briefly describe the research that the student(s) will be involved in.	For the discovery of plastid-degrading enzymes: we focus on developing computational and molecular ultra-high throughput platforms to interrogate the evolutionary landscape of enzymes which can degrade or upcycle plastic waste. Microplastics are a global contaminant, we are developing the solutions which can remediate these toxins at the terraform scale.
What specific skills are you looking for in summer student(s)?	- Graph analysis and - Genomics - Cloud computing - Biochemistry and Molecular biology
What is the primary location of research?	UofT St. George
Where will the student's research be conducted?	In Lab
Supervisor Commitment	Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.
Have you read and AGREE to the Supervisor Commitment?	Yes
Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM.	Yes
Have you contributed a dataset?	
T-CAIREM membership	Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [https://directory.tcairem.ai/]
Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member

T-CAIREM • 2026 Call for Faculty Supervisors: Summer Research Program #40

POTENTIAL SUPERVISOR'S INFORMATION

Name	Lianne Singer
Preferred email address	lianne.singer@uhn.ca
What is your primary university/hospital/research institution affiliation?	UHN-University Health Network
What is primary department you're appointed to/affiliated with?	Medicine
What is your Appointment level?	- Full Professor

What are your primary research interests?

Organ transplantation outcomes
Frailty
Patient reported outcomes
Clinical trials

Briefly describe the research that the student(s) will be involved in.

We have previously developed a cumulative deficits frailty index (FI) from the clinical variables collected during organ transplant candidacy evaluation, and demonstrated that this index is associated with mortality and other important clinical outcomes before and after transplantation. However, the FI requires identifying whether patients have a large number of specific health conditions and is labor-intensive to generate through manual chart review. The student will be involved in a project using machine learning models to classify the presence or absence of the relevant health conditions in patient chart data, automating generation of the FI and real-time updates to inform care.

What specific skills are you looking for in summer student(s)?

Experience with AI in medical applications
Clinical research experience
Scientific writing

What is the primary location of research?	Toronto General Hospital
Where will the student's research be conducted?	Combination of both

Supervisor Commitment

Each supervisor is expected to commit some time to assist with the delivery of the 2026 T-CAIREM Summer Research Program. These roles may include but are not limited to, adjudicating and reviewing presentations, moderating trainee rounds, providing feedback to participants, etc.

Have you read and AGREE to the Supervisor Commitment? Yes

Supervisors who contribute a dataset to the Health Data Nexus will get the full student stipend (\$7,200) covered by T-CAIREM. No

Have you contributed a dataset?

T-CAIREM membership

Faculty who are new to the field of health AI research and are not members of T-CAIREM, please see the Membership section of our web site for details on becoming a member. Membership is free. [<https://directory.tcairem.ai/>]

Are you a T-CAIREM member?	Yes, I'm a T-CAIREM member
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Additional instructions for potential applicants who will be contacting you from this listing (e.g., specific dates when you want them to apply, a note that you won't be taking phone calls about this position, tips on applying or working with you, etc.)

I have not contributed a dataset to Health Data Nexus yet but I am able to contribute.