

Michael Robinson

PHD CAT(C) ATC

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I am a sports medicine clinician, professor and clinical researcher with an interest in psychometrics, machine learning, artificial intelligence and sport safety. I have an active interest in weather related sport safety, sport related concussion research, field of play research and clinical assessment and diagnosis.

Research Topics

- ORCID <https://orcid.org/0000-0002-5043-2106>
- Google Scholar <https://scholar.google.ca/citations?user=4Cb5Y6YAAAAJ>
- Clinical Data Collection
- Sport Related Concussions
- Psychometric Analysis of Clinical Tools
- Clinical Tool Development
- Clinical Application of Machine Learning and Artificial Intelligence
- Predictive Modeling in Clinical Settings

Education

Western University

London, Ontario

PHD HEALTH AND REHABILITATION SCIENCE (MEASUREMENT AND METHODS) DISSERTATION TITLE

2020

EVALUATION OF THE PSYCHOMETRIC AND MEASUREMENT PROPERTIES OF THE SCAT5 AND CHILD SCAT5

Ohio University

Athens, Ohio

MS IN ATHLETIC TRAINING

2015

Sheridan College

Brampton, Ontario

BAHSC IN ATHLETIC THERAPY

2013

Skills

Data Science	R (advanced), Python (intermediate), RUMM2030 (advanced), SQL(beginner)
Subject Areas	Sports Medicine, Anatomy, Statistics, Research Methods, Health Science, Kinesiology
Clinical Research	REDCap (advanced), Phlebotomy, Study Design, Ethics
Languages	English
Board of Certification	2000015762
Certified Athletic Trainer ATC	
Licensed Athletic Trainer ATC/L	State of Michigan 2601002706
Certified Athletic Therapist CAT(C)	Canadian Athletic Therapists Association 2-4398
First Aid	First Responder Canadian Red Cross, BLS-CPR Canadian Red Cross

Awards and Honors

FACULTY OF HEALTH SCIENCE TEACHING AWARD OF EXCELLENCE (NOMINATED)

2022

CANADIAN COLLABORATING CENTRES FOR INJURY PREVENTION (CCCIP) AWARD FOR COLLABORATIVE EXCELLENCE - CONCUSSION AWARENESS TRAINING TOOL (CATT) FOR HIGH-PERFORMANCE ATHLETES COLLABORATIVE	2022
CANADIAN ATHLETIC THERAPISTS ASSOCIATION LEADERSHIP AWARD	2013
WESTERN UNIVERSITY HEALTH SCIENCES TEACHING AWARDS COMMITTEE: TEACHING EXCELLENCE - OVERALL INSTRUCTOR EFFECTIVENESS	2018
WESTERN UNIVERSITY HEALTH SCIENCES TEACHING AWARDS COMMITTEE: TEACHING EXCELLENCE - OVERALL INSTRUCTOR EFFECTIVENESS	2019

Current Memberships

- York University Faculty Association (YUFA)
- Canadian Athletic Therapists Association (CATA)

Academic Appointments

School of Kinesiology & Health Science (Athletic Therapy) - York University ASSISTANT PROFESSOR	<i>Toronto Ontario</i> 2025-Present
Faculty of Health Science - Western University ASSISTANT PROFESSOR	<i>London Ontario</i> 2024-2025
Western Continuing Studies INSTRUCTOR - DIPLOMA IN CLINICAL TRIALS MANAGEMENT	<i>London Ontario</i> 2021-2025
Lawson Health Research Institute ASSOCIATE SCIENTIST	<i>London Ontario</i> 2021-2025
Fowler Kennedy Sports Medicine Clinic POSTDOCTORAL FELLOW – CONCUSSION CLINICAL RESEARCH	<i>London Ontario</i> 2019-2024
Fowler Kennedy Sports Medicine Clinic RESEARCH COORDINATOR	<i>London Ontario</i> 2019-2024
Western University ASSISTANT PROFESSOR (LIMITED DUTIES), FACULTY OF HEALTH SCIENCE	<i>London Ontario</i> 2019-2024
Western University INSTRUCTOR (LIMITED DUTIES), FACULTY OF HEALTH SCIENCE	<i>London Ontario</i> 2017-2019
Unity Health SENIOR DATA ANALYST – CONNECT PROJECT	<i>Toronto Ontario</i> 2022-2023
Western University TEACHING ASSISTANT, HEALTH SCIENCE	<i>London Ontario</i> 2015-2019
Sheridan College PART-TIME FACULTY, ATHLETIC THERAPY	<i>Brampton Ontario</i> 2016-2018

Service

World Federation of Athletic Training & Therapy EDUCATION & RESEARCH COMMITTEE	2025-Present
Living Guideline for Pediatric Concussion Care EXPERT PANEL TEAM MEMBER	2021-Present
Canadian Concussion Network MEMBER	2020-Present
BC Concussion Advisory Network MEMBER	2020-Present
Concussion Ontario Network “CONNECT” MEMBER	2018-2025
Niagara Regional Science Fair JUDGE	2017-2025
London Regional Science Fair JUDGE	2017-2025
Federal Provincial and Territorial Working Group on Concussions CANADIAN ATHLETIC THERAPISTS ASSOCIATION’S REPRESENTATIVE	2020-2022
Canadian Athletic Therapists Association PRESIDENT	2020-2022
Canadian Athletic Therapists Association CHAIR, BOARD OF DIRECTORS	2021-2021
Canada-Wide Science Fair SPECIAL AWARDS JUDGE	2019-2020
Canadian Athletic Therapists Association DIRECTOR, BOARD OF DIRECTORS	2018-2020
Western University BOARD MEMBER, BOARD OF GOVERNORS	2018-2019
Property and Finance, McIntosh Gallery Committee and Executive Committee of the Alcohol Policy Review Committee	
Western University SENATOR, UNIVERSITY SENATE	2018-2019
University Research Board, Operations and Agenda, Student Review Board Academic, Senate Committee on Academic Policy and Awards, Senate Committee on University Planning and Subcommittee for Teaching Awards	
Canadian Athletic Therapists Association ETHICS COMMITTEE	2014-2018
Canadian Athletic Therapists Association EXAM DEVELOPER	2016-2018
Ontario Athletic Therapist Association DIRECTOR, MEMBERSHIP, MEMBER SERVICES & ACADEMIC LIAISON	2014-2017

Research Experience

Dr. Michael Robinson (PI)

Niagara Ontario/York
University

SPATIOTEMPORAL CHARACTERIZATION AND RISK VISUALIZATION OF WET BULB GLOBE TEMPERATURE
(WBGT) EXPOSURE FOR ENVIRONMENTAL MONITORING AND HEAT SAFETY ASSESSMENT

2025-Present

- The WBGT Monitoring Project integrates real-time environmental sensor data with MySQL and R to analyze and visualize heat stress risk using WBGT metrics. It supports time-based zone classification, data cleaning, and automated plotting to enhance athlete safety and environmental monitoring.

Dr. Douglas D. Fraser (PI), Dr. Kevin Shoemaker, Dr. Mark Daley, Dr. Michael Robinson

London Health Sciences
Center/Western University

IDENTIFICATION OF LONG-COVID SUBPHENOTYPES TO OPTIMIZE PATIENT OUTCOMES

2023-2024

- The primary goal of this international study is to identify Long-COVID sub-phenotypes by analyses of patient clinical data, together with their plasma proteins and metabolites. Using a combination of machine learning, large language models and bioinformatic analysis the results of this study will be used to identify existing medications that could be used to treat the specific types of Long-COVID. This study is funded by the Schmidt Initiative for Long-COVID (\$2,000,000 USD) and involves sites in Canada, United States, Zambia and Brazil.

Dr. Michael Robinson (PI), Dr. Lisa Fischer, Dr. Darryl Putzer

Fowler Kennedy Sports
Medicine Clinic/Western
University

CONCUSSION ELECTRONIC DATA CAPTURE SYSTEM 2ND EDITION

2018-2024

- An operational update to the system was completed to automate the delivery of surveys and to update the interface to provide a more userfriendly experience for participants and clinicians.

Dr. Lisa Fischer (PI), Dr. Michael Robinson

Fowler Kennedy Sports
Medicine Clinic/Western
University

CONCUSSION ELECTRONIC DATA CAPTURE SYSTEM

2018-2024

- Sport-related concussion is a major cause of morbidity in Canada, with many patients developing persistent post-concussive symptoms. Unfortunately, there is limited information about the diagnosis and treatment of concussion. Many patients are referred to Fowler Kennedy Sports Medicine Clinic each year because they have had a sports-related concussion. The care of each of these patients could potentially be improved with further learning through future research. By creating an electronic data capture system, information from many patients can be studied to improve the clinical understanding and treatment of concussion. Between May 2018 and December 2023 a total of 1296 patients were enrolled in the registry for a total of 3800 clinical encounters.

Dr. Anita Christie (PI), Alexandra Pauh, Dr. Lisa Fischer, Dr. Michael Robinson

Fowler Kennedy Sports
Medicine Clinic/Western
University

EFFECTS OF PHYSICAL ACTIVITY ON CONCUSSION RECOVERY

2020-2024

- This study will examine how time spent participating in different levels (low, moderate, and vigorous) of habitual physical activity over the 2-week post-injury period will affect recovery of symptoms, cognitive function, and brain physiology. These measures will be examined in individuals at 3 days and 2 weeks post-injury. Habitual physical activity levels will be monitored in the time between testing sessions to classify participants into different physical activity level groups. The change in symptom scores, cognitive function, and physiological function across the testing time will be compared between and within individuals time spent in low, moderate, or vigorous physical activity. The results will provide important information about whether habitual physical activity levels impact recovery from concussion.

Dr. Lisa Fischer (PI), Dr. Michael Robinson, Dr. Douglas Fraser

INVESTIGATING THE RELATIONSHIP BETWEEN BIOCHEMICAL AND CLINICAL RECOVERY THROUGH BLOOD
BIOMARKERS

2020-2024

- Concussion diagnosis remains problematic. Based on our previous blood biomarker study in which we determined a panel of metabolites that are diagnostic of concussion, we now propose to expand our findings by measuring the changes in blood biomarkers during concussion recovery. Specifically, we will measure biomarkers within 72 hours post-injury, at the first follow-up appointment and last follow-up appointment when medical clearance for returning to sport is provided. The changes in blood biomarkers will be compared to the subjective reporting of symptoms by the patients using the SCAT5 symptom checklist to determine if there is consistency between the results of the biomarker analysis and the traditional measures of clinical recovery. Additionally, the feasibility of using capillary blood and/or urine vs venipuncture will also be evaluated as capillary blood and urine can be more easily obtained without the involvement of a phlebotomist.

Dr. Heather MacKenzie (PI), Dr. Michael Robinson, Dr. Lisa Fischer, Dr. Andrew Johnson

Fowler Kennedy Sports
Medicine Clinic/Western
University
2020-2024

CLINICAL PREDICTION MODEL FOR PERSISTENTLY SYMPTOMATIC CONCUSSION

- This study aims to determine how to accurately predict who will recover well after mTBI versus who will not.

Dr. Michael Robinson (PI), Dr. Lisa Fischer, Dr. Darryl Putzer, Alexandra Pahl

CLINICAL CHARACTERISTICS OF CONCUSSION

2020-2024

- The purpose of this study is to describe a sample of patients who presented or were referred to Fowler Kennedy Sports Medicine clinic with a sports related concussion. Want want to examine factors such as age, sex, sport, injury characteristics, clinical characteristics, and elapsed time to return to play.

Dr. Michael Robinson (PI), Dr. Lisa Fischer, Dr. David Walton, Dr. Andrew Johnson, Dr. Joy MacDermid

PSYCHOMETRIC EVALUATION OF THE CHILD-SCAT5 SYMPTOM EVALUATION USING RASCH ANALYSIS

2020-2024

- Using Rasch analysis and data collected using the Concussion Electronic Data Capture System the psychometric properties of the SCAT5 symptom evaluation was evaluated to establish the reliability and validity of the items and the overall tool.

Dr. Michael Robinson (PI), Dr. Lisa Fischer, Dr. David Walton, Dr. Andrew Johnson, Dr. Joy MacDermid

PSYCHOMETRIC EVALUATION OF THE ADULT-SCAT5 SYMPTOM EVALUATION USING RASCH ANALYSIS

2020-2024

- Using Rasch analysis and data collected using the Concussion Electronic Data Capture System the psychometric properties of the SCAT5 symptom evaluation was evaluated to establish the reliability and validity of the items and the overall tool.

Dr. Andrew Baker (PI), Dr. Lisa Fischer, Dr. Michael Robinson, Dr. Mark Bayley, Dr. Roger Zemek, Dr. Carmela Tartaglia, Dr. Vicki Kristman, Dr. Michael Cusimano, Dr. Shawn Marshall, Dr. Robin Green, Dr. Nick Reed, Dr. Thomas Hoshizaki, Dr. James Hutchison, Dr. Tom Schweizer, Dr. Karl Zabjek, Dr. Michael Hutchison

*Fowler Kennedy Sports
Medicine Clinic/Western
University*

CONCUSSION ONTARIO NETWORK: NEUROINFORMATICS TO ENHANCE CLINICAL CARE AND TRANSLATION
(CONNECT) PROJECT

2018-2023

- Concussion is a worldwide public health problem and accounts for the largest group of brain injuries. Using common data elements (CDEs) to characterize concussion is the most important strategy to begin to address this global burden. The implementation of CDEs for concussion can increase the efficiency and effectiveness of data quality and facilitate data sharing across different clinical sites for rigorous research studies. Furthermore, the collection of CDEs can support clinical care and is essential to measure whether progress to reduce the burden of this neurological injury is occurring. In spite of this convincing evidence, healthcare providers (HCPs) across Ontario do not collect standardized CDEs on patients with a concussion. In this study, we aim to collaborate with several clinical sites across the province, to collect standardized CDEs from patients with a concussion. The CDEs collected from patients at multiple clinical sites across Ontario will be de-identified (no personal identifiers) and deposited into a large provincial data platform, managed by the Ontario Brain Institute (OBI). This study will build capacity across the province for system wide research to enhance concussion care and contribute to future research across several neurological disorders studied by OBI.

Dr. Shelina Babul (Lead), John Jacob, Dr. Lauren Lattimer, Dr. Brian Roy, Dawn Haworth, Dr. Michael Robinson, Dr. Frances Flint, Dr. Taryn Taylor, Dr. Amanda Black

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University*

CONCUSSION AWARENESS TRAINING TOOL (CATT) FOR HIGH PERFORMANCE ATHLETES

2021

- Participated as part of the expert panel that developed the tool.

Dr. Lisa Fishcer (Local PI), Dr. Michael Robinson, Dr. Douglas Fraser, Dr. Adrian Owen, Dr. Ravi Menon

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University*

SURVEILLANCE IN HIGH SCHOOLS TO REDUCE THE RISK OF CONCUSSIONS AND THEIR CONSEQUENCES

2023

- This Pan-Canadian research program, “Surveillance in High Schools to Reduce Concussions and Consequences of Concussions–SHRed Concussions,” is a 3-year longitudinal cohort study to evaluate concussion diagnostic tools, prognostic indicators, and prevention and management strategies among high school-aged youth athletes. Youth account for over 50% of the annual burden of over 3 million concussions in North America. SHRed will inform a reduction in the burden of sport-related concussions (SRC) and their consequences across all youth sport populations in alignment with the NFL goal to facilitate the translation of original research into clear clinical end-points that advantage patients and advance understanding of short and long-term effects of concussion.

Dr. Michael A. Mitchell

*London Health Sciences
Center/Western University*

PATIENT PERSPECTIVES ON THE USE OF INDWELLING PLEURAL CATHETERS IN MALIGNANT PLEURAL EFFUSIONS

2022

- Provided statistical consulting support for conducting a Rasch analysis on a clinical tool that was in development.

Dr. Cathy Chovaz and Dr. Lynn Rennison

*London Health Sciences
Center/Western University*

COVID-19 AND MILD TRAUMATIC BRAIN INJURY PATIENTS – ANY CLINICAL SIMILARITIES IN THOSE WHO TAKE LONGER TO RECOVER THAN EXPECTED?

2022

- Provided statistical consulting for protocol development and clinical informatics tool development.

- Provided statistical consulting for protocol development and clinical informatics tool development.

Lisa Hodgins

Guelph University

ASSESSMENT OF ANTI-BIOTIC FREE FEED PERFORMANCE IN POULTRY

2020

- Provided statistical tutoring and consulting for their PhD thesis.

Dr. Jeff Soparlo

London Health Sciences
Center/Western University

EVALUATING THE UTILITY OF S100A7 IN IDENTIFYING ORAL DYSPLASTIC LESIONS THAT WILL PROGRESS TO
ORAL SQUAMOUS CELL CARCINOMA

2020

- Provided statistical consulting support.

Dr. Jane Thornton (PI)

Fowler Kennedy Sports
Medicine Clinic/Western
University

TEAM STUDY

2020

- Provided clinical informatics support in the design, development and implementation of a REDCap based clinical research collection tool.

Publications

Refereed Journal Papers

10. Reed, Z., & Zemek, R. (n.d.). *Dawson., et al. Living guideline for pediatric concussion care (2021) doi: 10.17605/OSF.IO/3VWN9.*
9. MacKenzie, H. M., **Robinson, M.**, & McIntyre, A. (2023). Tolerability of pharmacological agents in the treatment of headache following brain injury: A scoping review. *Brain Injury*, 37(3), 251–260.
8. Mitchell, M. A., Deschner, E., Dhaliwal, I., Robinson, M., Li, P., Kwok, C., Cake, L., Dawson, E., Veenstra, J., Stollery, D., et al. (2023). Patient perspectives on the use of indwelling pleural catheters in malignant pleural effusions. *Thorax*.
7. Schulze, K. J., **Robinson, M.**, MacKenzie, H. M., & Dickey, J. P. (2022). Association of preexisting mental health conditions with increased initial symptom count and severity score on SCAT5 when assessing concussion. *Orthopaedic Journal of Sports Medicine*, 10(9), 23259671221123581.
6. Miller, M. R., **Robinson, M.**, Bartha, R., Charyk Stewart, T., Fischer, L., Dekaban, G. A., Menon, R. S., Shoemaker, J. K., & Fraser, D. D. (2021). Concussion acutely decreases plasma glycerophospholipids in adolescent male athletes. *Journal of Neurotrauma*, 38(12), 1608–1614.
5. Miller, M. R., Robinson, M., Fischer, L., DiBattista, A., Patel, M. A., Daley, M., Bartha, R., Dekaban, G. A., Menon, R. S., Shoemaker, J. K., et al. (2021). Putative concussion biomarkers identified in adolescent male athletes using targeted plasma proteomics. *Frontiers in Neurology*, 12, 787480.
4. **Robinson, M.**, Johnson, A. M., Fischer, L., & MacKenzie, H. M. (2021). Two symptoms to triage acute concussions: Using decision tree modeling to predict prolonged recovery following concussion. *American Journal of Physical Medicine & Rehabilitation*.
3. **Robinson, M.** (2019). *Evaluation of the psychometric and measurement properties of the SCAT5 and child SCAT5* [PhD thesis]. The University of Western Ontario (Canada).
2. **Robinson, M.**, Johnson, A. M., Walton, D. M., & MacDermid, J. C. (2019). A comparison of the polytomous rasch analysis output of RUMM2030 and r (ltm/eRm/TAM/lordif). *BMC Medical Research Methodology*, 19, 1–12.
1. **Robinson, M.**, & McElhiney, D. (2017). Investigating a seven-day baseline while establishing healthy SCAT3 symp-

Poster Presentations

Canadian Academy of Sport and Exercise Medicine National Conference FACTORS ASSOCIATED WITH SUBACUTE SCAT5 SYMPTOM SEVERITY IN HOCKEY PLAYERS EVALUATED AT A SPECIALTY CONCUSSION CLINIC	<i>Kelowna, BC</i> 2026
Canadian Athletic Therapists Association National Conference RISK VISUALIZATION OF WET BULB GLOBE TEMPERATURE (WBGT) EXPOSURE FOR ENVIRONMENTAL MONITORING AND HEAT SAFETY ASSESSMENT	<i>Calgary, AB</i> 2026
Peter J. Fowler Western Homecoming Sport Medicine Symposium SEXUAL ACTIVITY AND CONCUSSIONS PILOT STUDY	<i>London, ON</i> 2023
Canadian Concussion Network/Réseau Canadien des Commotions (CCN/RCC) Research and Community Engagement Annual Meeting FEASIBILITY OF ELECTRONIC DISPLAYS WITH CONCUSSION PATIENTS	<i>Calgary, AB</i> 2023
6th International Consensus Conference on Concussion in Sport ESTABLISHING THE MINIMAL CLINICALLY IMPORTANT DIFFERENCE (MCID) FOR THE ADULT VERSION OF THE SPORT CONCUSSION	<i>Amsterdam, NL</i> 2023
6th International Consensus Conference on Concussion in Sport MEASUREMENT PROPERTIES OF THE ADULT VERSION OF THE SPORT CONCUSSION ASSESSMENT TOOL 5TH EDITION SYMPTOM EVALUATION USING RASCH ANALYSIS	<i>Amsterdam, NL</i> 2023
6th International Consensus Conference on Concussion in Sport TWO SYMPTOMS TO TRIAGE ACUTE CONCUSSIONS: USING DECISION TREE MODELING TO PREDICT PROLONGED RECOVERY FOLLOWING CONCUSSION	<i>Amsterdam, NL</i> 2023
6th International Consensus Conference on Concussion in Sport PREDICTORS OF POST-CONCUSSION DISABILITY	<i>Amsterdam, NL</i> 2023
Canadian Concussion Network/Réseau Canadien des Commotions (CCN/RCC) Research and Community Engagement Annual Meeting MEASUREMENT PROPERTIES OF THE ADULT VERSION OF THE SPORT CONCUSSION ASSESSMENT TOOL 5TH EDITION SYMPTOM EVALUATION USING RASCH ANALYSIS	<i>Virtual</i> 2021
Canadian Concussion Network/Réseau Canadien des Commotions (CCN/RCC) Research and Community Engagement Annual Meeting TWO SYMPTOMS TO TRIAGE ACUTE CONCUSSIONS: USING DECISION TREE MODELING TO PREDICT 'PROLONGED RECOVERY FOLLOWING CONCUSSION	<i>Virtual</i> 2021
5th International Consensus Conference on Concussion in Sport INVESTIGATING A 7-DAY BASELINE WHILE ESTABLISHING HEALTHY SCAT3 SYMPTOM FREQUENCY AND SEVERITY	<i>Berlin, DE</i> 2016
Ohio University College of Health Sciences & Professions Showcase INVESTIGATING A 7-DAY BASELINE WHILE ESTABLISHING HEALTHY SCAT3 SYMPTOM FREQUENCY AND SEVERITY	<i>Athens, OH</i> 2015
Ohio University Student Research Expo INVESTIGATING A 7-DAY BASELINE WHILE ESTABLISHING HEALTHY SCAT3 SYMPTOM FREQUENCY AND SEVERITY	<i>Athens, OH</i> 2015

Oral Presentations

Canadian Athletic Therapist's Association National Conference BEYOND THE THERMOMETER: A CANADIAN PERSPECTIVE ON WBGT AND HEAT ILLNESS MANAGEMENT	Calgary, AB 2026
Canadian Athletic Therapist's Association National Conference PRACTICAL SKILLS FOR ACUTE CONCUSSION ASSESSMENT AND MANAGEMENT	Ottawa, ON 2024
Canadian Concussion Network COMMON DATA ELEMENTS - PANEL DISCUSSION	Calgary, AB 2023
• Annual Meeting	
Canadian Athletic Therapists Association CONCUSSION ASSESSMENT – PANEL DISCUSSION	Virtual 2022
• Concussion Webinar	
Queens University Concussion Awareness Conference CURRENT TRENDS IN CONCUSSION CLINICAL RESEARCH	Virtual 2022
Schulich School of Medicine & Dentistry “See the Line” FOWLER KENNEDY CONCUSSION RESEARCH UPDATE	London, ON 2021
Canadian Medical Hall of Fame Sciences Virtual Discovery Day in Health CAREERS IN HEALTH SCIENCES PANEL	Virtual 2021
League 1 Ontario Referee Professional Development LECTURE ON ATHLETIC INJURIES AND ROWAN'S LAW	Virtual 2020
College of Family Physicians of Canada Family Medicine Forum LECTURE ON BEST PRACTICES IN CONCUSSION ASSESSMENT	Vancouver, BC 2019
Ontario Brain Institute – PRESENTATION ON THE CONCUSSION ELECTRONIC DATA CAPTURE SYSTEM	2018
• CONNECT Annual Meeting	
College of Family Physicians of Canada Family Medicine Forum LECTURE ON BEST PRACTICES IN CONCUSSION ASSESSMENT AND MANAGEMENT	Toronto, ON 2018
Canadian Athletic Therapist's Association National Conference CONCUSSION ASSESSMENT AND MANAGEMENT TOOLS AND PROTOCOLS FOR ATHLETES	Niagara Falls, ON 2017
Canadian Sport Massage Therapist Association National Conference CONCUSSION ASSESSMENT AND MANAGEMENT TOOLS AND PROTOCOLS FOR ATHLETES	Toronto, ON 2016
Ontario's Standing Committee on Justice Policy BILL 149, ROWAN'S LAW ATHLETIC THERAPISTS: CONCUSSION ASSESSMENT AND MANAGEMENT	Provided Expert Testimony 2016

Teaching Experience

York University HH/KINE 2495 SPORTS INJURIES	Toronto, Ontario W2026
York University HH/KINE 3502 AT QUADRANT INQUIRY-BASED TUTORIAL	Toronto, Ontario W2026
York University HH/KINE 3501 ATHLETIC THERAPY UPPER & LOWER QUADRANT	Toronto, Ontario F2025

York University HH/KINE 3500 AT QUADRANT INQUIRY-BASED TUTORIAL	<i>Toronto, Ontario</i> F2025
York University HH/KINE 2503 AT EXTREMITIES SEMINAR & SKILLS	<i>Toronto, Ontario</i> W2026
York University HH/KINE 2502 AT EXTREMITIES INQUIRY-BASED TUTORIAL	<i>Toronto, Ontario</i> W2026
York University HH/KINE 2501 AT FIELD SEMINAR & SKILLS	<i>Toronto, Ontario</i> F2025
York University HH/KINE 2500 AT FIELD INQUIRY-BASED TUTORIAL	<i>Toronto, Ontario</i> F2025
Western University HS 2045B EMERGING TRENDS IN HEALTH CARE ENROLLMENT: 80	<i>London, Ontario</i> W2025
Western University HS 3025B INTEGRATIVE HEALTH ENROLLMENT: 80	<i>London, Ontario</i> W2023, W2024, W2025
Western University RS 3125A ENABLING HEALTH & WELL-BEING ENROLLMENT: 80	<i>London, Ontario</i> F2022
Western University HS 4410A FUTURE OF HEALTHCARE ENROLLMENT: 80	<i>London, Ontario</i> F2022, F2023
Western University HS 2801A RESEARCH METHODS IN HEALTH SCIENCES ENROLLMENT: 350	<i>London, Ontario</i> F2019, F2020, F2021, S2022
Western University HS 2330A FUNCTIONAL HUMAN GROSS ANATOMY FOR NURSING STUDENTS ENROLLMENT: 130	<i>London, Ontario</i> F2017, F2018, F2019
Western University HS 3002B HEALTH OCCUPATIONS ENROLLMENT: 80	<i>London, Ontario</i> W2018
Western University RS 3360B MUSCULOSKELETAL DISORDERS IN REHABILITATION ENROLLMENT: 80	<i>London, Ontario</i> W2019, W2020, W2021, W2022, W2023
Western University KIN 2032 RESEARCH DESIGN IN HUMAN MOVEMENT SCIENCE ENROLLMENT: 330	<i>London, Ontario</i> W2020, S2022, W2023, F2023, W2024
Western University KIN 4437 MEDICAL ISSUES IN SPORT MEDICINE ENROLLMENT: 80	<i>London, Ontario</i> F2021, F2022
Western University KIN 2222/HS 2300 SYSTEMIC APPROACH TO FUNCTIONAL HUMAN GROSS ANATOMY ENROLLMENT: 430	<i>London, Ontario</i> F2021
Western University HS 3071 DETERMINANTS OF HEALTH AND DISEASE ENROLLMENT: 80	<i>London, Ontario</i> F2021, S2023
Western University HS 3050 HEALTH RELATED QUALITY OF LIFE ENROLLMENT: 80	<i>London, Ontario</i> F2021, F2022, S2023
Western University HS 3801 MEASUREMENT AND ANALYSIS IN HEALTH SCIENCES ENROLLMENT: 330	<i>London, Ontario</i> W2022, S2023
Western Continuing Studies CTMG 6006 READING AND UNDERSTANDING RESEARCH INFORMATION ENROLLMENT: 50	<i>London, Ontario</i> F2021, F2022, F2023

Sheridan College

SCIE 28634 STATISTICS FOR HEALTH SCIENCE ENROLLMENT: 60

Brampton, Ontario

W2017, F2017, W2018, F2018

Sheridan College

SCIE 12941 INTRODUCTION TO BIOMECHANICS ENROLLMENT: 60

Brampton, Ontario

F2016

Graduate Committee and Examiner Experience

Dillion Richards

PHD THESIS

Western University

2022

- The Clinical Value of Oculomotor Assessments Across the Continuum of Concussion

Ali Pahl

MASTERS THESIS

Western University

2021

- Sex-related Differences in Neurophysiology Following Concussion

Wayne Allison

COMPREHENSIVE EXAMINATION

Western University

2023

Chris Ruffell

MASTERS THESIS

Western University

2023

- Needs Assessment and Program Evaluation of the Health Sciences Peer Mentorship Program

Sport Medicine Experience

Athletics Ontario Provincial Championships

MEDICAL COORDINATOR AND CHIEF THERAPIST

Niagara, ON

2026

Ontario Federation of School Athletic Associations Athletics

MEDICAL COORDINATOR AND CHIEF THERAPIST

Niagara, ON

2026

2026 Ontario Summer Games

MEDICAL OPERATIONS MANAGER

Waterloo, ON

2025-2026

Upright Rugby/Rogues Rugby

MEDICAL COORDINATOR & HEAD ATHLETIC THERAPIST

Various locations around the world

2019-Present

Ontario Volleyball Association's Provincial Championships

MEDICAL COORDINATOR & HEAD ATHLETIC THERAPIST

2018-Present

Central Western Ontario Secondary Schools Association Rugby

MEDICAL COORDINATOR

Brantford and Waterloo ON

2018-Present

Algoma University

CONTRACT ATHLETIC THERAPIST

Various locations around Ontario

2018-Present

Bellwether 7s

MEDICAL COORDINATOR & HEAD ATHLETIC THERAPIST

Brantford, ON

2022-Present

Matmen Wrestling MEDICAL COORDINATOR & ATHLETIC THERAPIST	<i>Brampton, ON 2020-Present</i>
Central Western Ontario Secondary Schools Association Cross Country MEDICAL COORDINATOR & ATHLETIC THERAPIST	<i>Waterloo, ON 2019-Present</i>
Cambridge Lions Minor Football MEDICAL COORDINATOR & HEAD ATHLETIC THERAPIST	<i>Cambridge, ON 2017-Present</i>
Region of Peel Secondary School Athletic Association Track and Field MEDICAL COORDINATOR & ATHLETIC THERAPIST	<i>Brampton, ON 2017-Present</i>
Region of Peel Secondary School Athletic Association Cross Country MEDICAL COORDINATOR & ATHLETIC THERAPIST	<i>Brampton, ON 2017-Present</i>
Region of Peel Secondary School Athletic Association Wrestling MEDICAL COORDINATOR & ATHLETIC THERAPIST	<i>Brampton, ON 2017-Present</i>
Hamilton Indoor Games MEDICAL COORDINATOR	<i>Hamilton, ON 2017-Present</i>
Hamilton Track Club MEDICAL COORDINATOR	<i>Hamilton, ON 2017-Present</i>
Waterloo County Secondary School Athletic Association MEDICAL COORDINATOR	<i>Waterloo, ON 2019-2024</i>
TriGator ATHLETIC THERAPIST	<i>Elmira, ON 2017-Present</i>
Ontario Federation of School Athletic Associations Volleyball MEDICAL COORDINATOR	<i>Kitchener-Waterloo 2023-2023</i>
Canada Summer Games MEDICAL VENUE LEAD	<i>Niagara ON 2021-2022</i>
Responsible for all aspects of medical planning and execution for beach volleyball and athletics.	
Ontario College Athletics Association Cross Country Provincials MEDICAL LEAD	<i>Kitchener, ON 2023</i>
Provided direct field coverage during the event.	
Forest City Road Race MEDICAL VOLUNTEER	<i>London ON 2023</i>
FC London HEAD ATHLETIC THERAPIST	<i>London ON 2018-2023</i>
Fanshawe College Women's Soccer ASSISTANT COACH AND MEDICAL LIAISON	<i>London, ON 2019-2023</i>
Ontario Summer Games MEDICAL LEAD	<i>Mississauga ON 2022</i>
Run for the Toad ASSISTANT MEDICAL COORDINATOR	<i>Paris, ON 2017-2020</i>
Ontario Federation of School Athletic Associations Rugby MEDICAL COORDINATOR & ATHLETIC THERAPIST	<i>Waterloo and Oshawa, ON 2017, 2019</i>

Oakville Titans Rugby

MEDICAL COORDINATOR & HEAD ATHLETIC THERAPIST

*Oakville, ON**2015-2019***Volleyball Canada's National Championships**

MEDICAL COORDINATOR & HEAD ATHLETIC THERAPIST

*Toronto ON**2019***Ontario Summer Games**

MEDICAL VOLUNTEER

*London, ON**2018***World Juniors of Ultimate Frisbee**

MEDICAL VOLUNTEER

*Waterloo ON**2018***Canada Cup of Wrestling**

CONTRACT ATHLETIC THERAPIST

*Guelph, ON**2018***CWOSSA Field Hockey**

MEDICAL COORDINATOR

*Waterloo, ON**2017-2018***Oakville Crusaders Women's Rugby**

TEAM ATHLETIC THERAPIST

*Oakville, ON**2015***Mississauga Blues Rugby**

HEAD ATHLETIC THERAPIST

*Mississauga ON**2011-2012*