Research Practicum Projects 2025/2026
Faculty of Health Sciences
HLSC/KINE 4998/4999U

Project Application Name: Dubrowski
Project Title: Improving Online Physiotherapy Continuing Education
Research Preceptor(s): Dr. Adam Dubrowski
Number of Available Positions: 2
Location: Ontario Tech University North Campus (Remote)
Project Description: Rheumatoid arthritis (RA) is a chronic autoimmune disease affecting approximately 374,000 Canadians aged 16 and older, representing about 1.2% of the population. The prevalence is higher among females (1.7%) compared to males (0.8%). RA often leads to joint pain, stiffness, and swelling, resulting in significant mobility challenges. These mobility issues can severely impact daily activities and overall quality of life. Currently, there is a notable absence of specialized online educational programs tailored for physiotherapists seeking continuing education on managing RA. This gap highlights the need for targeted educational initiatives to enhance the quality of care provided to individuals with RA. Developing comprehensive online programs addressing RA management will benefit both clients and practicing physiotherapists. Clients will gain access to evidence-based strategies to manage their condition effectively, potentially improving their mobility and quality of life. Physiotherapists will be equipped with up-to-date knowledge and skills, enhancing their clinical practice and professional development. This project seeks two motivated students to work collaboratively with or in parallel on two key aspects: 1. Rapid Scoping Review: Conduct a comprehensive review to identify best practices in physiotherapy continuing education programs that focus on RA management. This will involve analyzing current scientific literature to determine effective educational strategies and content. 2. Market Assessment: Explore existing continuing education programs (both online and in-person) available in Canada and globally that address RA management. This assessment will identify gaps and opportunities in the current educational offerings. The expected outcome is a detailed report that synthesizes scientific knowledge and practical solutions. This report will inform the research team about the potential to develop such programs and assess their economic viability, ultimately aiming to improve the standard of care for individuals with RA.
Key Roles for Students: Literature Review, Data Collection/Analysis, Behavioural Data Collection, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: Eligible for HLSC and KINE students.

Project Application Name: Murphy
Project Title: Impact of altered neck inputs on brain plasticity
Research Preceptor(s): Dr. Bernadette Murphy
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Hybrid)
Project Description: This study involves measuring how changing input from the neck impacts brain plasiticity. The tasks will be tested using electroencephalography (EEG) to measure brain activity in response to motor learning in combination with behavioural measures of motor performance. Future work will use these tasks to evaluate the effects of hand dominance on motor learning and neuroplasticity.
Key Roles for Students: Literature Review, Data Collection/Analysis, Behavioural Data Collection, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: Completion of Intro to Movement Neuroscience and Motor Control and Learning with at least B+ grades. Eligible for HLSC and KINE students.

Project Application Name: Barakat
Project Title: Intervention Research for Girl Sport Participation and Retention
Research Preceptor(s): Dr. Caroline Barakat
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Hybrid)
Project Description: This project will implement an educational toolkit that promotes girl participation and retention in sports.
Key Roles for Students: Grant Writing, Literature Review, Data Collection/Analysis, Surveying, Knowledge Translation
Special Requirements/Eligibility: Excellent written, analytical, and communication skills. Eligible to HLSC students.

Project Application Name: Rudoler 1
Project Title: Pan-Canadian Study of Psychiatric Care
Research Preceptor(s): Dr. David Rudoler
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Hybrid)
Project Description: The goal of this study is to inform psychiatrist workforce planning to improve access to psychiatric care by: (1) developing and evaluating comparable indicators of the supply of psychiatric care across provinces, (2) analyzing variations and changes in the characteristics of the psychiatrist workforce, including demographics and practice style, and (3) studying psychiatrist practice choices and intentions, as well as the factors that lead to these choices. A cross-provincial mixed methods study is currently underway in British Columbia, Manitoba, Ontario, and Nova Scotia. The study uses linked health administrative data within three of the four provinces and in-depth, semi-structured qualitative interviews

with psychiatrists in each province to explore their preferences and practice choices and to inform workforce planning. You will collect and synthesize evidence, write reports, and create knowledge translation materials, such as infographics, to communicate study results to decision-makers and the research community.
Key Roles for Students: Literature Review, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: Eligible to HLSC students.

Project Application Name: Rudoler 2
Project Title: Evaluating bias and fairness in machine learning models for mental healthcare
Research Preceptor(s): Dr. David Rudoler
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Hybrid)
Project Description: There are important knowledge gaps about the feasibility of evaluating and reporting on bias and fairness in machine learning (ML) models employed in mental healthcare settings, with few applications leveraging real-world mental healthcare data. Furthermore, very limited research in this area incorporates the views of those impacted by the implementation of ML models: people in leadership positions, healthcare providers, patients, and informal caregivers. The proposed project addresses these knowledge gaps by implementing a sequential mixed-methods approach designed to achieve the following objectives: (1) Identify frameworks for evaluating and reporting on bias and fairness in ML models. (2) Assess the feasibility and appropriateness of representing the measures of bias and fairness identified in Objective 1 using real-world mental healthcare use cases. (3) Engage with mental healthcare decision-makers, providers, patient partners, and informal caregivers to gain insights into their attitudes toward trust in machine learning models, explore whether reporting on bias and fairness influences these attitudes, and improve bias and fairness reporting. The project will use a mixed-methods design. A variety of data sources will be used to evaluate real-world use cases (e.g., EMR data, administrative health data). Surveys and focus group methods will be used to assess attitudes toward bias reporting. As a practicum student, you will be involved in developing a research protocol for this work. You will learn about the literature on bias and fairness in machine learning and AI, and how they are applied in mental healthcare contexts. You will also develop skills in mixed methods study design.
Key Roles for Students: Grant Writing, Literature Review
Special Requirements/Eligibility: Eligible to HLSC students.

Project Application Name: Partoseodarso
Project Title: Using Team Based Learning to Improve Student Engagement
Research Preceptor(s): Dr. Elita Partosoedarso
Number of Available Positions: 2

Location: Ontario Tech University North Campus (Hybrid)
Project Description: Team based learning (TBL) is a type of cooperative learning which involves assigning pre-class work to cover key concepts so that class time is used to test and extend their understanding. Groups are pre-assigned for the entire duration to promotes a good working relationship and the development of groupwork strategies. Students involved in this project will gather information as part of the literature review, collect data from students, invigilators and possibly interview a small subset of individuals. The data will form the basis of at least one peer reviewed journal article and most likely a presentation at a relevant international conference.
Key Roles for Students: Literature Review, Data Collection/Analysis, Surveying, Interviewing, Scientific Writing
Special Requirements/Eligibility: Eligible for HLSC and KINE students.

Project Application Name: Tadayyoniahrab
Project Title: Role of proprioception in virtual environments
Research Preceptor(s): Hamed Tadayyoniahrab & Dr. Bernadette Murphy
Number of Available Positions: 2
Location: Ontario Tech University North Campus (Hybrid)
Project Description: The project will collect EEG signal while participants perform tasks in virtual reality with varying levels of proprioceptive feedback. Student will assist with data collection and analysis.
Key Roles for Students: Literature Review, Data Collection/Analysis, Behavioural Data Collection, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: Completion of Intro to Movement Neuroscience and Motor Control and Learning with at least B+ grades. Eligible for HLSC and KINE students.

Project Application Name: Logan-Sprenger
Project Title: Validating core temperature across multiple devices in multiple climates
Research Preceptor(s): Dr. Heather Logan-Sprenger
Number of Available Positions: 2
Location: Ontario Tech University North Campus (In-Person)
Project Description: This practicum will require students to run and assist physiological monitoring sessions in various different climatic conditions.
Key Roles for Students: Data Collection/Analysis, Knowledge Translation
Special Requirements/Eligibility: Eligible for HLSC and KINE students.

Project Application Name: Arcand
Project Title: Exploring Gender Differences in Nutrition Education: A Sub-Analysis of the Foodbot Factory Cluster Randomized Controlled Trial
Research Preceptor(s): Dr. JoAnne Arcand and Jackie Brown
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Hybrid)

Project Description: Our research team has created a novel intervention, Foodbot Factory, that uses a serious game (i.e., a game designed for education) and teacher lesson plans to support children in Grades 4 and 5 (ages 8-12) in learning about nutrition in line with the Ontario curriculum. We have recently completed a cluster randomized control trial (cRCT) evaluating the intervention in comparison to traditional education methods in classrooms across the province of Ontario (n=32 classrooms, n~600 child participants). In this research project, we will conduct a sub-analysis of the data collected in this study to answer the research question: Are there differences in how the Foodbot Factory intervention influences nutrition knowledge, attitudes and behaviours between boys and girls? For this project, the practicum student will focus on one or two outcomes of interest. The role of the practicum student will be to conduct a literature review on gender differences in nutrition knowledge, attitudes and/or behaviours, support data cleaning and analysis using RStudio statistical software to answer the research question and critically evaluate and write-up the results. This project will help to advance our understanding of how nutrition education may have varying impacts on different genders and these findings can be leveraged to provide more equitable school-based nutrition education.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: Eligible for HLSC and KINE students.

Project Application Name: Gurgis
Project Title: An Evaluation of Safe Sport in Canada
Research Preceptor(s): Dr. Joseph GurgisGurgis
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Remote)
Project Description: Amid growing public awareness and research on maltreatment in sport, Canada has seen a significant increase in legislative and organizational initiatives aimed at promoting Safe Sport. However, the effectiveness of these initiatives remains uncertain due to a lack of evaluation research, raising questions about the genuine safety of Canadian sport. This project seeks to assess the perspectives of Canadian sport stakeholders on the effectiveness of Safe Sport initiatives, with the ultimate goal of creating a comprehensive resource informed by empirical evidence and stakeholder input. Employing an integrated knowledge translation (IKT) methodology, the research team will utilize qualitative and quantitative methods to identify areas for improvement and enhance Safe Sport in Canada
Key Roles for Students: Literature Review, Data Collection/Analysis, Surveying, Interviewing, Scientific Writing
Special Requirements/Eligibility: TCPS 2 Certificate. Eligible to KINE students.

Project Application Name: Banks 1
Project Title: Medical Education: A systematic review on student satisfaction in the flipped anatomy & physiology classroom

Research Preceptor(s): Dr. Laura Banks
Number of Available Positions: 2
Location: Ontario Tech University North Campus (Remote)
Project Description: This project is focused on a systematic review of the literature exploring student satisfaction with the flipped classroom. This instructional design approach has gained popularity in undergraduate and professional medical education.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing
Special Requirements/Eligibility: GPA requirement of 3.8 or higher. Eligible for HLSC and KINE students.

Project Application Name: Banks 2
Project Title: A systematic review of long-term cardiovascular risk following pregnancy
Research Preceptor(s): Dr. Laura Banks
Number of Available Positions: 2
Location: Ontario Tech University North Campus (Remote)
Project Description: This project will focus on 2 systematic reviews (already in progress) to evaluate long-term cardiovascular risk among individuals who've had a prior pregnancy complicated by gestational diabetes, pre-term birth, and/or a hypertensive disorder of pregnancy. There is increasing evidence that pregnancy complications may be associated with elevated cardiovascular risk; however, little is known about age and race based differences. Therefore, these reviews will explore these concepts while giving students an opportunity to learn more about cardiovascular health, postpartum risk, and systematic review methods.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing
Special Requirements/Eligibility: GPA requirement of 3.8 or higher. Eligible for HLSC and KINE students.

Project Application Name: Banks 3
Project Title: A systematic review of cardiovascular outcomes following pharmacological interventions in heart failure by age, sex, and race
Research Preceptor(s): Dr. Laura Banks
Number of Available Positions: 4
Location: Ontario Tech University North Campus (Remote)
Project Description: This CIHR-funded project involves the systematic evaluation of cardiovascular outcomes following pharmacologic and valvular disease interventions, which has the potential to impact over 2.5 million Canadians living with cardiovascular disease and 750,000 Canadians living with heart failure. This work is urgently required as randomized controlled trials and clinical guidelines evaluating cardiovascular outcomes after pharmacological (e.g., guideline-directed medical therapies for heart failure and anti-platelet therapies for ischemic heart disease) and/or device (e.g., surgical or transcatheter aortic valve replacement for aortic valve

disease) interventions have often failed to report on potential sex, race, and age-related differences. This proposed project has the potential to address significant knowledge gaps and transform clinical cardiovascular training and practice. Project findings will lead to knowledge translation activities with support from the Canadian Cardiovascular Society, including (i) academic publications, (ii) novel data to inform position statements and clinical guidelines, (iii) CCS workshops, and (iv) medical education training modules for Royal College Maintenance of Competencies (MOC) Section 3 Self-Assessment Program accreditation. Collectively, study findings will advance clinical guidelines and policymakers' knowledge of sex, race and age-related differences to ensure greater health equity in clinical cardiovascular care.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: GPA requirement of 3.8 or higher. Eligible for HLSC and KINE students.

Project Application Name: Lloyd
Project Title: Physical activity and motor development of children with Autism Spectrum Disorder
Research Preceptor(s): Dr. Meghann Lloyd
Number of Available Positions: 1
Location: Ontario Tech University North Campus (In-Person)
Project Description: Children with Autism Spectrum Disorder (ASD) experience delays in their motor skills. 5 years ago we conducted a motor skill intervention. These children are now 8-10 years old. This project will bring the original cohort back to the lab for a series of assessments and also recruit a new group of 8-10 year olds with ASD who did not get the intervention. We will be looking to see if there are any developmental differences between the two groups but also gain insight into the trajectory of development in the original cohort 5 years later. In this research practicum students will be looking at data collected over both studies.
Key Roles for Students: Literature Review, Data Collection/Analysis, Behavioural Data Collection, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: Vulnerable sector check is required. KINE 4401 is highly recommended. Eligible to KINE students.

Project Application Name: Nonoyama & Quach
Project Title: Innovations in Respiratory Care Across the Lifespan
Research Preceptor(s): Dr. Mika Nonoyama & Dr. Shirley Quach
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Hybrid)
Project Description: There are two areas the practicum could take place. First, together with the ACE Research Facility take part in a study aiming to 1) determine if it is feasible to measure the direct effects of ozone plus extreme heat, humidity and sunlight in individuals with chronic respiration disease and 2) provide an "initial look" at the effect on shortness of breath, exercise level, lung function, vital signs, and other

symptoms. The second at SickKids - being involved in one of the numerous projects investigating different part of the Lung Health Pathway (artificial airway management; initiation & weaning from mechanical ventilation (MV); extubation; and post-extubation respiratory management). These may include background research (literature review), and data collection retrospectively or prospectively on various respiratory therapy and/or mechanical ventilation interventions in the Critical Care Unit (CCU), the Emergency Department (ED), and/or in-patient hospital units.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing, Knowledge Translation, Aiding with data analysis (qualitative and quantitative); collaborate with graduate student(s), clinical staff, and people with lived experience; developing educational resources. There may also be opportunity for students to do a buddy shift in the Critical Care Unit, ED, and/or hospital units at SickKids (together with staff respiratory therapists), depending on circumstances like workload and patient acuity levels.
Special Requirements/Eligibility: Minimum A- in HLSC3910 (research methods); must be able to work at SickKids for the duration of the research practicum (which requires entry immunizations, police check, mask fit, and initial orientation at the hospital). Must be able to work independently. Foundational knowledge of mechanical ventilation e.g. completion of this course https://www.edx.org/course/mechanical-ventilation-for-covid-19 ASSETS: Experience working with electronic information systems (hospital based preferred) & with data organization; experience in academic/research writing e.g. research proposals, peer-reviewed publications; experience working with Microsoft Office, especially Excel; knowledge of respiratory physiology and pathophysiology. Eligible to HLSC Students.

Project Application Name: La Delfa
Project Title: Experimental and modeling approaches to evaluate overhead work
Research Preceptor(s): Dr. Nick La Delfa
Number of Available Positions: 2
Location: Ontario Tech University North Campus (In-Person)
Project Description: Overhead work is problematic in occupational tasks as it results in a high risk for musculoskeletal injury. Dr. La Delfa's Occupational Neuromechanics & Ergonomics laboratory is going to be conducting several studies in the 2025-2026 year to understand overhead exposures, with the goal of developing thresholds that can be used to design tasks with reduced risk. These studies will be multi-faceted, including laboratory studies measuring electromyography and 3D motion capture to understand how factors such as cycle time and time spent overhead can differentially affect fatigue responses. Another portion of this research will use computational models of muscle fatigue to proactively estimate muscle fatigue for tasks that do not yet exist in reality.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing, Knowledge Translation
Special Requirements/Eligibility: The candidate should have taken KINE 4475 (Occupational Ergonomics) or concurrently be registered in this course. Eligible to KINE students.

Project Application Name: Sanchez
Project Title: Developing an online resource on environmental health and cancer
Research Preceptor(s): Dr. Otto Sanchez
Number of Available Positions: 2
Location: Ontario Tech University North Campus (Hybrid)
Project Description: Environmental exposures to carcinogenic agents are prevalent in the modern world. As cancer incidence trends show concerning increases in diagnosis in young adults and children, health literacy on environment-cancer associations and effective cancer preventive actions is needed. In this research practicum you will have the opportunity to learn about cancer prevention, the WHO mandate for health literacy and the types of research evidence used to address and mitigate environmental carcinogenesis. You will also participate in the conceptual and technological development of a dynamic online platform that will contain best scientific evidence and educational resources on environmental health and cancer.
Key Roles for Students: Literature Review, Knowledge Translation, Development of online platform
Special Requirements/Eligibility: Interest in cancer prevention. Eligible to HLSC students.

Project Application Name: Balogh
Project Title: Literature review of chronic disease outcomes for people with developmental disabilities
Research Preceptor(s): Dr. Robert Balogh
Number of Available Positions: 1
Location: Ontario Tech University North Campus (Remote)
Project Description: Adults with intellectual and developmental disabilities (IDD) experience disparities in health and health service outcomes compared to the general population. There are conflicting reports of how frequent chronic diseases (e.g. arthritis, asthma, diabetes, heart disease) are among people with IDD. The project will answer the question "What is the incidence and prevalence of chronic diseases among persons with intellectual and developmental disabilities". The question will be answered using a literature review including some systematic review methods. The student will be involved in developing a specific research question, conducting a search of the literature, and synthesizing the findings using narrative and systematic review approaches.
Key Roles for Students: Literature Review
Special Requirements/Eligibility: Eligible for HLSC and KINE students.

Project Application Name: Qadri
Project Title: Comparative mammalian red blood cell physiology
Research Preceptor(s): Dr. Syed Qadri
Number of Available Positions: 3

Location: Ontario Tech University North Campus (In-Person)
Project Description: Red blood cells (RBCs) display a large diversity in their composition and functions across various mammalian species. This Project aims to comparatively examine the cellular and biochemical characteristics of RBCs from humans and cows under various physiological conditions. Learning about these differences will contribute to our understanding on the changes in RBC homeostasis, which is disturbed in various bovine and human diseases.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing, Laboratory biochemical assays
Special Requirements/Eligibility: Biosafety training. Eligible to HLSC students.

Project Application Name: Eickmeier 1
Project Title: Co-creating a clinical pathway for Trexo Robotics at Grandview Kids
Research Preceptor(s): Dr. Taryn Eickmeier & Maritza Basaran
Number of Available Positions: 2
Location: Grandview Kids – Jerry Coughlan Building (Ajax) (Hybrid)
Project Description: Background: Trexo Robotics is a robotic gait training device for children that helps improve gait pattern, as well as increases strength and endurance. Grandview Kids has recently acquired a Trexo, however, we have not yet established a clinical care pathway for its use within physiotherapy. Objective: This project has three key objectives: (1) Conduct a literature review to identify the scope of use of the Trexo and similar exo-skeleton devices to identify the primary child health outcomes; (2) co-design a clinical care pathway for use of the Trexo with Grandview Kids' clinicians to identify the most suitable clients; and (3) conduct an impact assessment of the Trexo with eligible clients. Methodology: This project will include a scoping review, two co-design workshops, and up to 108 in-person data collection sessions with eligible participants. Students will assist with the application to the Joint Research Ethics Board, conducting the scoping review, participating in co-design, collecting data, analyzing outcomes, and creating knowledge products to showcase at Grandview Kids and across the children's treatment sector. Students will also receive Trexo Training and shadow the Grandview Kids clinical teams.
Key Roles for Students: Literature Review, Data Collection/Analysis, Scientific Writing, Knowledge Translation, Writing applications to research ethics
Special Requirements/Eligibility: Broad Record Search through their local police department; compliance with Grandview Kids policies; participation in the Grandview Kids' orientation. Eligible to KINE students.

Project Application Name: Eickmeier 2
Project Title: The Impact of Peer Support on Family Outcomes
Research Preceptor(s): Dr. Taryn Eickmeier & Andrea Belanger
Number of Available Positions: 1
Location: Grandview Kids – Jerry Coughlan Building (Ajax) (Hybrid)

Project Description: Background: The Grandview Kids Family Engagement Team provides peer support to parents and caregivers throughout their child's journey in pediatric rehabilitation. All Peer Navigators have been certified through York University and offer one-on-one as well as group support covering a variety of topics including coping with diagnosis, advocating for children with needs in the school system, and writing government grants. To date, we have not formally evaluated the impact of peer support on the health and social outcomes of parents and caregivers. Objective: Conduct a formative, impact evaluation on the impact of Peer Support on parents and caregivers accessing Grandview Kids' Family Engagement Team. Methodology: This research has two main objectives: (1) Conduct a scoping review on the intended outcomes of peer support in pediatrics to identify key metrics of success; (2) survey current and previous parents/caregivers accessing peer support to evaluate the program's ability to meet the key metrics of success. The student is responsible for developing an application to the Joint Research Ethics Board, creating a protocol, conducting the scoping review, collecting data, conducting analysis, and reporting. The student will work closely with the Manager of Family Engagement and receive research mentorship from the Research & Innovation team at Grandview Kids.
Key Roles for Students: Literature Review, Data Collection/Analysis, Surveying, Knowledge Translation, Research ethics application
Special Requirements/Eligibility: Participation in the Grandview Kids orientation; Compliance with Grandview Kids' policies and procedures; Vulnerable Sector Check. Eligible to HLSC students.

Project Application Name: Eickmeier 3
Project Title: Identifying the barriers and facilitators to the use of Brain-Computer Interface in Therapeutic Recreation
Research Preceptor(s): Dr. Taryn Eickmeier & Maritza Basaran
Number of Available Positions: 1
Location: Grandview Kids – Jerry Coughlan Building (Ajax) (In-Person)
Project Description: Background: The Brain Computer Interface (BCI) uses an Emotiv Headset to translate brain activity into simple commands to control technology. The BCI is currently in-use with Holland Bloorview Kids Rehabilitation Hospital to support children with limited mobility to actively participate in therapeutic recreation (TR) activities such as gaming, art, and music. Grandview Kids has recently acquired three Emotiv headsets and the BCI Software from Grandview Kids. Objective: This project looks to identify the barriers and facilitators to using the BCI in Therapeutic Recreation at Grandview Kids. Methodology: In consultation with Holland Bloorview, the student will receive formal training on the use of the BCI, work alongside the TR team to identify potential participants, test out the BCI in TR sessions, and collect the perspectives of TR clinicians on the barriers and facilitators to its use. The student will be responsible for drafting an application to the Joint Research Ethics Board, preparing a research protocol in consultation with the TR team, collecting data, conducting analyses, reporting, and preparing knowledge products for the Grandview Kids team and the

broader children's treatment sector.
Intended outcomes: This project aims to identify barriers early in the adoption of the BCI while advancing the understanding of suitable clients and the potential outcomes for inclusive recreation for children and youth.

Key Roles for Students: Data Collection/Analysis, Behavioural Data Collection, Scientific Writing, Knowledge Translation, Research ethics application

Special Requirements/Eligibility: Participation in the Grandview Kids orientation; Compliance with all Grandview Kids and BCI policies/procedures; Vulnerable Sector Check. Eligible to KINE students.

Project Application Name: Wattie

Project Title: Applied Sport Science Projects.

Research Preceptor(s): Dr. Nick Wattie

Number of Available Positions: 4 to 6

Location: Ontario Tech University North Campus (Hybrid)

Project Description: We have many sport science projects underway that students can be matched to. These include

i) Performance analyses and sport analytics, which involve watching games and/or practices and coding events/behaviours to help predict outcomes (e.g., expected goal models). Sports include Ridgeback varsity sports (soccer, hockey and basketball), youth developmental sport, and professional sports.

ii) We also have projects focused on athlete identification and development in sport. These include a variety of projects, including examining professional entry draft data (e.g., NHL and NBA) to better understand decision making processes for athlete selection, and the accuracy of entry draft selections.

Key Roles for Students: Literature Review, Data Collection/Analysis, Behavioural Data Collection, Scientific Writing, Knowledge Translation, Attending lab meetings

Special Requirements/Eligibility: Knowledge of sports, either through experience playing sports or through extensive viewing/fandom/fantasy league engagement is an asset to these projects. Comfort and competence in excel is also an asset.