

Opportunities for Research Placements for 2020-21

Research-Based Practicum in Health Studies (HLTH 352/3.0) and Research-Based Practicum in Kinesiology (KNPE 352/3.0)

Application Deadline Extended to Friday, March 27th, 2020 at 4:00 pm

Please submit applications directly to the relevant contact person as listed below and please c.c. Robert Watering at watering@queensu.ca on your e-mailed application(s).

HLTH/KNPE 352 is designed to provide a research-based internship for students in Kinesiology or Health Studies who may be interested in working in the research labs and on research projects of SKHS faculty members. In addition to hands-on work in the research environment, the course will include a seminar series covering research topics and methodologies typically utilized in Health Studies, Kinesiology and Physical Education research. Seminar presentations will include topics from: Physiology of Exercise, Biomechanics and Ergonomics; Epidemiology; Health Promotion; Psychology of Sport, Physical Activity, Disability and Health; and Sociology of Sport, Physical Activity and Health.

Students will be exposed to the research process as it applies to the research area in which the student has chosen to intern. This process may include, but is not limited to data collection and analysis, literature searches, manuscript writing, presentation skills, etc. The other primary goal is to expose students to the wide variety of research ongoing within the School of Kinesiology and Health Studies at Queen's University.

** Please note that HLTH/KNPE 352 is a 3.0 credit unit course, but it spans across both the fall and winter terms.*

Research Summaries of Supervisors Accepting Students for 2020-21 Academic Year

Dr. Jean Côté and Luc Martin (Sport Psychology)

Number of positions: One or Two

Are you interested in being involved in research exploring the elements of positive youth sport experiences? The sport psychology lab will be accepting up to **four** internship positions for the 2020-21 school year. Research in the sport psychology lab at Queen's focuses primarily on the characteristics of the youth sport environment (e.g., coach-athlete relationships, teammate interactions, coach characteristics) that create favourable conditions for excellence and participation in sport. In addition, current projects also relate to group dynamics principles (e.g., cohesion, subgroups) and coaching behaviours (e.g., transformational leadership) in sport.

Those students accepted for these positions will have opportunities to contribute to several ongoing projects, and will be working with data derived from observations (e.g., coding videos), interviews (e.g., transcription), and questionnaires (e.g., inputting data). Finally, students typically experience the research process within the field of sport psychology, from data collection (e.g., video-recording sport competition, questionnaire distribution) all the way to data analysis and writing.

- Interested students should contact Dr. Luc Martin and Dr. Jean Côté at luc.martin@queensu.ca and jc46@queensu.ca respectively, and attach a cover letter, unofficial transcript, and resume or CV. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application' in the subject line.

Dr. Courtney Szto (Socio-cultural sport studies)

Number of positions: One

Dr. Szto's research explores factors that contribute to (in)justice in sport and physical activity. She is looking for one internship student for the 2020-21 academic year to help with a project co-conducted with Dr. Mary Louise Adams on adult recreational learners in ice hockey and figure skating. This mixed methods project will familiarize the student with interview and online survey data analysis. The student will also be asked to conduct a literature review on the Long-Term Athlete Development Model. The successful student can work remotely for the vast majority of the internship. A background in ice hockey and/or figure skating would be an asset but is not a requirement for the position.

Interested students should send a cover letter, unofficial transcript, a resume/CV, and one writing sample to Dr. Szto (c.szto@queensu.ca) with the title: "KNPE/HLTH352 Internship Application."

Dr. Eun-Young Lee (*In Situ* Physical Activity Research Lab)

See the *In Situ* PA research lab's webpage (www.insituPA.ca) for more information.

Number of positions: Up to two

In Situ PA Research Lab is dedicated to addressing social and environmental injustice that have impacts on human behaviour and health using social theories and powerful statistics. Each intern will participate in one of the following interdisciplinary and internationally collaborative research projects:

- 1) **Human behaviour and health in the era of climate change:** Increasing physical activity, active travel, and outdoor time while reducing carbon-intensive behaviours (e.g., media use, driving) can benefit both health and the environment. We study how climatic features interact with human behaviour to influence health in the era of climate crisis using secondary global datasets.
- 2) **Intersectionality in physical activity and sport participation:** This is an interdisciplinary project (with Gender and Sexuality Studies in Education) aimed at developing and validating a landmark survey tool that will quantify intersectionality in large-scale, population-based sample surveys, using intersectionality-based experiences of sport participation as its developmental terrain.
- 3) **Global physical activity research:** In close collaboration with the members of the [Active Healthy Kids Global Alliance](#), *In Situ* PA Research Lab is dedicated to playing a leadership role in advancing children's physical activity around the world through internationally collaborative research and advocacy work.

Interns will work in a dynamic team environment alongside graduate students and researchers around the world, participating in literature reviews, data analysis, and various knowledge translation activities (e.g. mini reviews, journal publications, website blog postings). Interested students should contact Dr. Eun-Young Lee (eunyoung.lee@queensu.ca) with a cover letter, unofficial transcript, an example of written work (e.g. a term paper), and a resume/CV. A cover letter should clearly indicate one's interests in one of the research projects outlined above and their relevant experiences. Please title the e-mail "KNPE/HLTH 352 Research Internship Application."

Dr. Elijah Bisung (Health Promotion)

There are up to two research internship positions in the Center for Environmental Health Equity under the supervision of Dr. Elijah Bisung. In 2020/2021, Dr. Bisung is seeking students to work on projects related to:

1. Water security in low-income countries - Example of tasks include conducting literature reviews and quantitative data analysis.
2. Epidemics and health systems preparedness - Examples of tasks include conducting literature review and data analysis to understand individual perceptions of health systems preparedness and inequalities in "post Ebola" settings.

Interested students should send a cover letter, unofficial transcript, and resume or CV to Dr. Elijah Bisung by e-mail at elijah.bisung@queensu.ca.

Dr. Brendon Gurd (Muscle Physiology Lab)

Number of positions: Up to four

There are four research internship positions available in the Queen's Muscle Physiology Lab (QMPL) under the supervision of Dr. Brendon Gurd. Interns will be exposed to the research process through participation in study design, data collection and analysis. Current studies in the Gurd lab are examining the optimal intensity of exercise for improving aerobic fitness and the molecular mechanisms determining mitochondrial content.

- All applications should include the following:
 1. A copy of the applicant's CV and transcript
 2. A 1-2-page cover letter that highlights the following:
 - a. experiences relevant to working in the QMPL
 - b. a description of the characteristics and skills you possess that you believe will allow you to succeed as research intern working in the QPML
 - c. a brief discussion of your motivation for pursuing a research position within the QMPL
 - d. the research being conducted within the QPML that you are interested in
 - e. the research methodologies being utilized within the QPML that you would be interested in learning

*Formatting for Cover Letter:

- There are no guidelines regarding page formatting (font, line spacing, etc.) but you should use full sentences and paragraphs.
- While brevity is not required, concision and clarity of thought are highly encouraged.
- Figures and references can be appended on extra pages allowing your total cover letter document to exceed two pages.
- Applicants to the Queen's Muscle Physiology Lab (QMPL) should send their applications directly to Dr. Gurd at gurdb@queensu.ca. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.
- Any questions on the application process can be sent directly to Dr. Gurd via email. More information on the research being conducted within the QPML can be found on the lab website at <http://www.skhs.queensu.ca/musclephysio/>.

Dr. Jeff Masuda (Environmental Health Equity)

Number of positions: Up to two

The Centre for Environmental Health Equity (www.cehe.ca) lab will be accepting up to two internship positions for the 2020-21 academic year. Our lab focuses on community-based mixed methods research (qualitative, quantitative, and arts-based) from social sciences, health promotion, and humanities traditions. We work closely with partners in communities, government, and non-profit sectors to investigate the health and wellbeing of urban communities, using human rights, health equity, and environmental justice approaches. Interns will work in a team environment alongside Master's and PhD students, faculty members, and practitioners, participating in data collection (interviews, archives) and analysis, literature reviews, and public communication of research (e.g. community presentations, website postings). Current CEHE projects for 2020-2021 include environmental health conditions of low-income rental housing, place and human rights, urban playground deserts, and urban Indigenous leadership on climate action.

- Interested students should contact Dr. Jeff Masuda (jeff.masuda@queensu.ca), cc'ing Carlos Sanchez (cesp@queensu.ca) with a cover letter, unofficial transcript, an example of written work (e.g. a term paper), and a resume/CV.

Dr. Amy Latimer-Cheung (Revved Up Research Group)

Number of positions: Four

Dr. Latimer-Cheung is the Co-Director of the Revved Up Research Group. The Revved Up Research Group strives to translate research knowledge about physical activity into practical guidelines and programs that foster full and meaningful participation for all Canadians. In 2020/2021, Dr. Latimer-Cheung's is seeking students to work on projects related to creating quality sport programs for Canadians with a disability.

Example projects include:

- Evaluation of a transformational leadership Parasport coaching workshop;
- Understanding the sport experience of blind athletes;
- Evaluating the quality of Special Olympics programming;

Interested students should send a cover letter, a resume of experience, and an unofficial copy your transcript to Dr. Amy Latimer-Cheung (amy.latimer@queensu.ca). Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.

Dr. Jennifer Tomasone (Revved Up Research Group)

Number of positions: Two or three

Dr. Tomasone is a Co-Director of the Revved Up Research Group, which strives to translate research knowledge about physical activity into practical guidelines and programs that foster full and meaningful participation for all Canadians. In 2020/2021, Dr. Tomasone is seeking students to work on projects related to:

1. Developing and evaluating interventions to enhance the dissemination and implementation of the forthcoming Canadian 24-Hour Movement Guidelines for Adults and Older Adults.
2. Understanding how members' quality participation in the Revved Up Exercise Program change over time, and how to modify the program to ensure optimal experiences for persons with disabilities.

Interested students should send a cover letter, unofficial transcript and a resume/CV to Dr. Tomasone at tomasone@queensu.ca. Please title the email "KNPE/HLTH352 Research Internship Application".

Dr. Michael Tschakovsky (Human Vascular Control Lab)

Number of positions: Three

There are **three** research internship positions available in the Human Vascular Control Laboratory under the supervision of Dr. Michael Tschakovsky for the 2020-21 academic year.

Human Vascular Control Laboratory Mission: To understand the nature of mechanisms controlling blood vessels involved in adjusting exercising muscle blood flow (and thereby oxygen delivery), how disturbances and disease affect this control, and how exercise training can restore/improve this control.

Our tolerance for physical activity plays an important role in our quality of life, and depends in part on how well our muscle's demand for oxygen is met. This requires that the cardiovascular system constantly adjusts blood flow to active muscles while maintaining arterial blood pressure. Accomplishing these goals requires integrated control of cardiac output with vasodilation and vasoconstriction of both exercising skeletal muscle and other vascular beds. **Basic Science Research** in our laboratory is aimed at finding answers to the fundamental questions: How is matching oxygen delivery to demand in the exercising muscle achieved? Are there important differences between individuals in the mechanisms involved in this matching and in their effectiveness? Can these mechanisms be improved by exercise training, and if so, does the type of exercise training matter?

Interns will be exposed to the research tools, approach to research question development, study design, and gain experience in data collection and analysis.

- Interested students should send a cover letter and unofficial transcript to Dr. Tschakovsky at mt29@queensu.ca. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.

Dr. Kyra Pyke (Cardiovascular Stress Response Lab)

Number of positions: Three

There are **three** internship positions available in the Cardiovascular Stress Response Lab (CVSRL, Dr. Pyke) for the 2020-21 academic year. The CVSRL research focuses on improving our understanding of basic vascular function including responses to exercise training, as well as understanding the impact of psychological stress on the cardiovascular system. The internship position will provide an opportunity to be involved in data collection and analysis. The position requires a commitment of 80h in the lab over the course of the term (~ 4hrs/week most weeks of the term).

- Interested students should send a cover letter, an unofficial transcript, and their resume to Dr. Pyke at pykek@queensu.ca. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.

Dr. Chris McGlory (Molecular Nutrition Lab)

Number of positions: Up to three

There are up to **three** internship positions available in the area of Molecular Nutrition research for the 2020-21 academic year. The studies will involve examining how nutrition and resistance exercise affect the cellular and molecular signals that affect muscle growth in young women.

- Interested students should send a cover letter, an unofficial transcript, and their resume to Dr. McGlory at chris.mcglory@queensu.ca. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.