

HKGSA BULLETIN

Upcoming Events

Student-Prof Social @ 1848 – October 14 3pm

HKGSA Meeting MNT 206 – October 17

Student-Prof Social #2 @1848 – November 11 3pm

HK Grad Students Secret Santa – December (TBD)

Winter Semi-Formal – December 9 (tentative)



Recent News

The HKGSA's next meeting will be on Monday, October 17 (time TBD) in Montpetit room 206. We encourage those looking to get involved to attend this meeting!

As always, look for regular updates on our **website** (hkgsa.ca), **Facebook** (**Human Kinetics – Grad Students**) and **Instagram** ([@hkgsa_uottawa](https://www.instagram.com/hkgsa_uottawa)) accounts with a flurry of awesome events coming up!

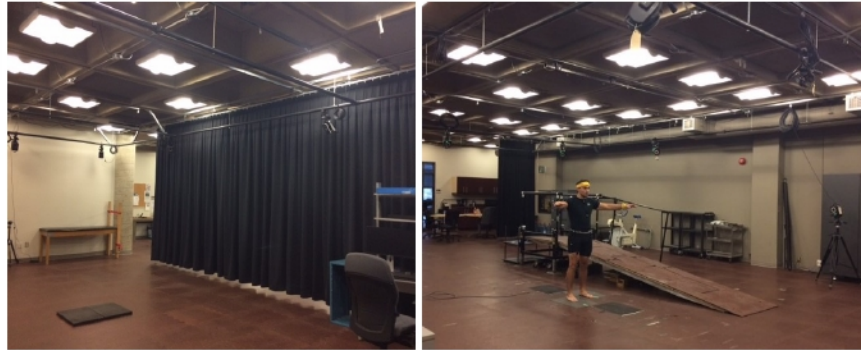
HK Grad Students Secret Santa 2016

The HKGSA is excited to announce that we will be organizing a Secret Santa for the upcoming holiday season! Sign ups will begin in November, with presents being delivered by Santa throughout December! Stay tuned for more updates on our inaugural Secret Santa!

*** NOTE: If you have a labmate or classmate who is not on the HKGSA mailing list, please have them send hkgsa@uottawa.ca an email. Thank you.**

LAB OF THE MONTH

Dr. Ryan Graham, Human Movement and Biomechanics



The newest addition to the *Human Movement Biomechanics Laboratory*, Dr. Ryan Graham, now has his laboratory fully up and running. As a young professor, Dr. Graham has already established himself in the specific field of spinal biomechanics, and will be presenting at the World Congress on Low Back Pain in Singapore at the end of the month.

Dr. Graham's research takes an interdisciplinary approach, where biomechanics is blended with other domains to better understand injury mechanisms related to the spine. By using this combination approach, the lab aims to advance assessment, prevention and intervention in complex issues such as low back pain and spinal control. Current research in the lab focuses on a few specific research areas including whole body functional movement screening to prevent injury in athletes, and musculoskeletal modelling of the spine during work-related tasks. Projects are being developed to investigate low back pain in a number of different ways including integrating biochemistry, mathematical modelling and medical imaging techniques such as x-ray and MRI to achieve this research goal.

The recent completion of the biomechanics data collection space involves an 8-camera VICON motion capture system which allows 3D data collection of real-time movement, a 16-channel wireless EMG system equipped with accelerometers enabling the simultaneous collection of muscle activation patterns and individual body-segment velocities and accelerations.

If you are interested in learning more about the exciting new projects being developed in the lab, come visit the *Human Movement Biomechanics Laboratory* at Lee's Campus or say hello to the lab members in **E050!**