

Dean's Round-up: April 2020

Faculty Highlights



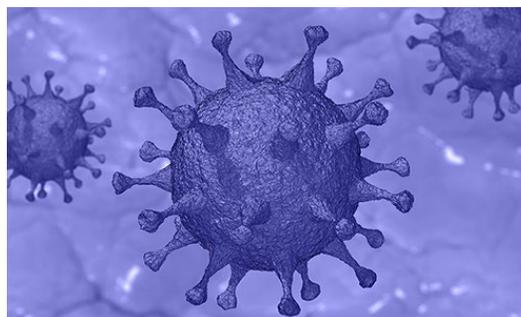
The Faculty launched a new \$50,000 fund to help our students succeed in remotely delivered summer courses. The Science Summer Student Success Fund (S⁴F) will provide up to 1,000 students with a \$50 discount when purchasing textbooks. [Read more](#)



Researchers and staff in the Faculty of Science donated more than 50,000 gloves to Humber River Hospital and offered 600 grams of guanidine thiocyanate to the National Microbiology Laboratory to help Canada combat COVID-19. [Read more](#)



The Faculty of Science is producing hand sanitizer for the York University campuses. Hundreds of litres have been produced and distributed to Facilities Services for staff still working on campus and students still living in residences.



The Faculty of Science is consolidating all of our scientists' new research funding and publications related to COVID-19 on one news page. Feel free to follow along at <https://science.yorku.ca/covid->

[Read more](#)

[research](#)

Congratulations

Eric Hessels (Physics & Astronomy) received the President's Research Excellence [Award](#) from York University.

Other News

Dawn Bazely (Biology) was featured in the #MySTEMJob [series](#) developed by Ingenium, Canada's Museums of Science and Innovation, the National Film Board of Canada, and the Canadian Museum of Nature.

Research by **Seyed Moghadas** (Mathematics & Statistics) and his former graduate student Affan Shoukat on the effectiveness of the Zika vaccine in women of reproductive age was featured in yFile's [Brainstorm](#).

Saeed Rastgoo (Physics & Astronomy) was selected to represent York University as a member of the European Cooperation in Science & Technology, as part of the [CA18108](#) - Quantum gravity phenomenology in the multi-messenger approach collaboration.

Amro Zayed (Biology) was a panelist for the National Academy of Sciences online science session "Advances in Bee Health".

Joel Zylberberg (Physics & Astronomy) was featured in a yFile [Brainstorm](#) article about artificial intelligence research in neuroscience at York University.

Research Highlights

Sampa Bhadra (Physics & Astronomy) and the T2K Collaboration published [Constraint on the matter–antimatter symmetry-violating phase in neutrino oscillations](#) in *Nature*. The research was featured on the cover of the journal. Read the [media release](#) from York University.

Dasantila Golemi-Kotra (Biology) and her team published [Low phosphatase activity of LiaS and strong LiaR-DNA affinity explain the unusual LiaS to LiaR in](#)

[vivo stoichiometry](#) in *BMC Microbiology*.

Seyed Moghadas (Mathematics & Statistics) and colleagues published [Projecting hospital utilization during the COVID-19 outbreaks in the United States](#) in the *Proceedings of the National Academy of Sciences*.

Sandra Rehan (Biology) and her PhD student **Katherine Odanaka** published [Wild bee distribution near forested landscapes is dependent on successional state](#) in *Forest Ecosystems*.

Chun Peng (Biology) and her team published [Nodal regulates ovarian functions in zebrafish](#) in *Molecular and Cellular Endocrinology*.

Jianhong Wu (Mathematics & Statistics) published [The Benefits of a Mass Influenza Vaccination Campaign in the Time of COVID-19](#) in *Health Management, Policy & Innovation*. In addition, he, postdocs Biao Tang and Nicola Bragazzi and PhD student Zachary McCarthy submitted [Lessons drawn from China and South Korea for managing COVID-19 epidemic: insights from a comparative modeling study](#) to the *Bulletin of the World Health Organization*; the paper was posted to the Bulletin's COVID-19 open site.

Postdoc **Leo Alcorn** (supervised by Adam Muzzin, Physics & Astronomy) co-authored [MOSEL Survey: Tracking the Growth of Massive Galaxies at \$2 < z < 4\$ Using Kinematics and the IllustrisTNG Simulation](#) in *The Astrophysical Journal*. Read the [media release](#) from York University.

Media

Gerald Audette (Chemistry) participated in a Q & A with [Now Toronto](#) about disinfecting and cleaning groceries during the COVID-19 pandemic.

Paul Delaney (Physics & Astronomy) spoke to various media organizations about the supermoon, including [CBC News](#), *CBC Radio*, and [CTV News](#). He was also interviewed by *AM1010*, *CityTV* and the *Financial Post* on a number of other astronomical topics.

Dasantila Golemi-Kotra (Biology) spoke with *680 News* about wearing face masks during COVID-19.

Jane Heffernan (Mathematics & Statistics) was quoted in a [CTV News](#) article about a national COVID-19 task force looking into the shortage of PPE of which she is a member. She also spoke to [The Globe & Mail](#) about asymptomatic transmission of COVID-19 and the challenge it poses to epidemiologists trying to understand community spread.

Elaina Hyde (Physics & Astronomy) published [April in Toronto: Astronomical Easter Egg hunts and Stargazing](#) in *Medium*.

Sapna Sharma (Biology) was profiled in a [Nature](#) article about juggling science and childcare from home during the COVID-19 pandemic.

Jianhong Wu (Mathematics & Statistics) was quoted in several articles in the *National Post* about what it means to [reach the peak](#) in the COVID-19 pandemic, whether Canada is ready to [lift restrictions](#), and using [disease trackers](#) to trace the spread of the virus.

Upcoming Events

May 6: York University Virtual Town Hall, 2:30-3:30 pm:
<https://conversations.info.yorku.ca/>
