

Y-EMERGE Spotlight #5

In This Issue



<https://www.yorku.ca/research/yemerge/>

Welcome to the 5th Edition of the Y-EMERGE Spotlight

Y-EMERGE Spotlight is a monthly newsletter sharing the achievements of the York Emergency Mitigation, Engagement, Response, and Governance Institute (Y-EMERGE).

Y-EMERGE In The Media

[The Jasper fire highlights the risks climate change poses to Canada's world heritage sites.](#)

On **July 31**, 2024, Professor **Ali Asgary** published an article in *The Conversation Canada* highlighting how the recent fire in Jasper illustrates the increasing threat that climate change poses to Canada's national parks and world heritage sites. [Read More](#)

[Systems Thinking and Sustainable Development series.](#)

On **July 29**, 2024, Professor **Hassan Qudrat-Ullah** was announced as the founding editor of the "Systems Thinking and Sustainable Development" book series. This series will tackle global challenges with innovative solutions through systems thinking. [Read More](#)

[Does Canada need a national emergency response agency?](#)

On **July 27**, 2024, Dr. **Ali Asgary** emphasized the urgent need for Canada to establish a national emergency response agency in an article published on CBC News. [Read More](#)

[How Collaboration from Across Canada and the World is Helping Fight the Alberta Wildfires](#)

On **July 26**, 2024, in an article on *The Conversation*, Dr. **Eric Kennedy**, Assistant Professor of Disaster and Emergency Management at York University, discussed the international collaboration efforts aiding the fight against the Alberta wildfires. [Read More](#)

Call for Improved Flood Mitigation in Toronto's Rockcliffe Neighborhood

On **July 24**, 2024, Professor **Usman Khan**, an Associate Professor of Civil Engineering, emphasized the urgent need for better flood mitigation in Toronto's Rockcliffe neighbourhood in an article on *CBC News*. [Read More](#)

Professor Huaiping Zhu received CAIMS-Fields Industrial Prize

On **July 22**, 2024, Professor **Huaiping Zhu** was honored by the Canadian Applied and Industrial Mathematics Society (CAIMS) with the 2024 CAIMS-Fields Industrial Prize. [Read More](#)

York University's Faculty-Led Study Abroad Program Flourishes Post-Pandemic with Professor Anna Zalik's Course in Mexico City

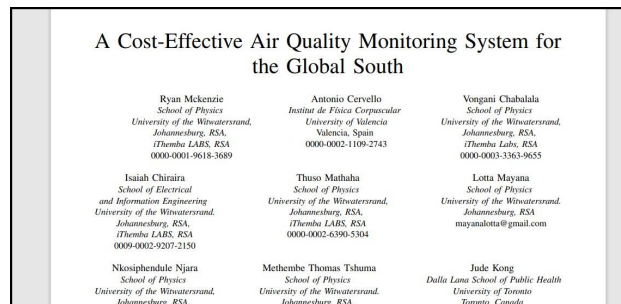
On **July 12**, 2024, Professor **Anna Zalik** led an engaging study abroad course titled "Free Trade, Unfree Labour and Environmental Justice in Continental North America" in Mexico City. [Read More](#)

York University's ADERSIM Lab Highlighted on CBC Toronto/ENC

On **July 3**, 2024, Professor **Ali Asgary**, Executive Director of Advance Disaster Emergency and Rapid Response Simulation (**ADERSIM**) Lab and York University's Emergency Operation Center (**EOC**) was interviewed on CBC Toronto. The news segment focused on York University's new facility, the ADERSIM Lab. This lab will primarily be used for simulation training, but its technology could also assist the country in real-world emergencies. [Read More](#)

Y-EMERGE Publications

A Cost-Effective Air Quality Monitoring System for the Global South



On **July 27**, 2024, Professor **Jude Dzevela Kong** co-authored a paper titled "A Cost-Effective Air Quality Monitoring System for the Global South," which was published in the Sustainable Technology Journal. [Read More](#)

York University Researchers Publish Review on Avian Influenza Outbreak

Avian Influenza: Lessons from the Past Outbreaks and Inventory of Data Sources, Mathematical and AI Models, and Early Warning Systems for Forecasting and Hotspot Detection to tackle the ongoing outbreak.

Emmanuel Musa^{1,2*}, Zahra Movahhedi Nia^{1,3*}, Nicola Luigi Bragazzi⁴, Doris Leung⁵, Nelson Lee⁶, Jude Dzevela Kong^{1,6,7,8,9*}

1. Global South Artificial Intelligence for Pandemic and Epidemic Preparedness and Response Network (AI4PEP).
2. Dahdaleh Institute for Global Health Research, York University, Toronto.
3. Department of Mathematics, York University, Toronto.
4. Department of Food and Drugs, University of Parma, Italy.
5. Canada Animal Health Surveillance System (CAHSS), Animal Health Canada
6. Institute for Pandemics, Dalla Lana School of Public Health (DLSPH), University of Toronto.
7. Artificial Intelligence and Mathematical Modeling Lab (AIMM2Lab), DLSPH, University of Toronto.
8. Africa-Canada Artificial Intelligence and Data Innovation Consortium (ACADIC).
9. Institute of Health Policy, Management and Evaluation (IHPE), University of Toronto

On **July 3, 2024**, a review article titled "Avian Influenza: Lessons from Past Outbreaks and Inventory of Data Sources, Mathematical and AI Models, and Early Warning Systems for Forecasting and Hotspot Detection" was published by researchers including Professor **Jude Kong** in the journal SSRN. [Read More](#)

Special News

Launch of Victor Phillip Dahdaleh ADERSIM Lab and Emergency Operations Centre

Congratulations on the launch of the Victor Phillip Dahdaleh ADERSIM Lab and Emergency Operations Centre, made possible by approximately \$3.5 million in private and public funding. This state-of-the-art facility is open to researchers from various institutes, fostering collaboration and innovation in emergency management and simulation training. [Read More](#)

Introducing Our Newest Program: [PhD in Disaster and Emergency Management \(DEM\)](#)

We are excited to introduce our latest academic offering: the PhD program in Disaster and Emergency Management (DEM).

The PhD in Disaster and Emergency Management is a unique program that combines rigorous academic training with practical experience. Our program is led by esteemed faculty members who bring knowledge and real-world expertise to the classroom. Students will engage in cutting-edge research, interdisciplinary collaboration, and fieldwork, preparing them to become leaders in emergency management.

For more details on the program, admission requirements, and how to apply, visit our [PhD program on the DEM page](#).