

A photograph of the York University Yari Hall building at sunset. The building is a large, curved structure with a facade of yellow and white horizontal stripes. A large glass entrance is visible. The sky is a mix of orange and red. Several people are walking on the steps in front of the building.

YORK UNIVERSITY
Research
Leaders
April 2019

YORK 
UNIVERSITÉ
UNIVERSITY



PROGRAM

Call to Order

Celia Haig-Brown
Associate Vice-President Research

Welcome Remarks

Rhonda L. Lenton
President and Vice-Chancellor

Introduction to

York University Research Leaders' Celebration
Rebecca Pillai Riddell
Associate Vice-President Research

Keynote Speaker

Dr. Carrie Bourassa
Scientific Director
Canadian Institutes of Health Research
Institute of Indigenous Peoples' Health

York University Research Leaders 2018

York University President

Rhonda L. Lenton's Research Awards

Closing Remarks

Celia Haig-Brown
Associate Vice-President Research

A MESSAGE FROM PRESIDENT AND VICE-CHANCELLOR RHONDA L. LENTON



Rhonda L. Lenton
President and
Vice-Chancellor
York University

It is my great pleasure to acknowledge the 2018 York University Research Leaders. We are pleased to recognize the remarkable achievements of these scholars and of our community.

At York, research excellence and innovation are flourishing. Celebrating our 60th anniversary this year, we have grown to become the third-largest university in the country, known internationally as a progressive and comprehensive research institution of higher learning with many outstanding programs.

York's vision is built on four pillars that define the University: access, connectedness, excellence and impact. This celebration is, above all, a demonstration of York's commitment to research excellence and impact.

Our researchers are deeply committed to advancing innovative research projects across the vast spectrum of disciplines for the social, economic, cultural, environmental and other well-being of society.

We offer a broad sociodemographic of students access to a high-quality, research-intensive university, so that our students and postdoctoral fellows enjoy the active mentorship of nationally and internationally recognized scholars in an exciting research environment.

York's research is multifaceted and diverse, with historic strengths across six intersecting themes: (1) advancing fundamental inquiry and critical knowledge; (2) analyzing cultures and mobilizing creativity; (3) building healthy lives, communities and environments; (4) exploring and interrogating the frontiers of science and technology; (5) forging a just and equitable world; and (5) integrating entrepreneurial innovation and the public good.

We also see five areas of opportunities to further accelerate research growth and success: (1) digital cultures; (2) healthy individuals, healthy communities and global health; (3) Indigenous futurities; (4) integration of Artificial Intelligence into society; and (5) public engagement for a just and sustainable world.

We work closely with our community partners, both locally and internationally, on innovative academic programs and research collaborations. Our researchers are working with industry, government, community groups, not-for-profits and academic partners to create new knowledge and discoveries that address the world's most pressing scientific questions and social challenges.

Through this vital work, our researchers and scholars are fulfilling the University's mission and vision to advance academic and research excellence for the benefit of all.

We are deeply committed to supporting our researchers and scholars, and wish to extend our warmest congratulations and best wishes to all our research leaders this year for their continued success.

Sincerely,

Rhonda L. Lenton
President & Vice-Chancellor
York University

Keynote Speaker

Image: *Skennen'kó:wa Gamig*,
the House of Great Peace



**KEYNOTE SPEAKER
DR. CARRIE BOURASSA**

**SCIENTIFIC DIRECTOR
CANADIAN INSTITUTES OF HEALTH
RESEARCH'S INSTITUTE OF
INDIGENOUS PEOPLES' HEALTH**



Dr. Carrie Bourassa is the Scientific Director of CIHR's Institute of Indigenous Peoples' Health (IIPH). Through IIPH, she leads the advancement of a national health research agenda to improve and promote the health of First Nations, Inuit and Métis Peoples in Canada. First housed in the Health Sciences North Research Institute in Sudbury, the Institute is now operating from the University of Saskatchewan in Saskatoon where Dr. Bourassa is a tenured Professor in the Department of Community Health & Epidemiology, College of Medicine.

Dr. Bourassa spent over 15 years as a professor of Indigenous health studies in the Department of Indigenous Health, Education and Social Work at the First Nations University of Canada in Regina.

She is a member of the College of New Scholars, Artists and Scientists of the Royal Society of Canada and a public member of the Royal College Council of the Royal College of Physicians and Surgeons of Canada.

In 2012, Dr. Bourassa won the Wiichiwayshinawn Foundation Inc. Métis Award in Health and Science.

Dr. Bourassa is Métis and belongs to the Riel Métis Council of Regina Inc. (RMCR, Local #34). She earned her Master of Arts degree in political science and Ph.D. in social studies at the University of Regina.



York University Research Leaders 2018



RESEARCH LEADERS 2018



ALI ABDUL-SATER, Faculty of Health, was honoured with a **Stars Career Development Award** from the Arthritis Society. This new award involves an innovative funding model where the Arthritis Society provides the first three years of funding and the researcher's host institution commits an additional three years' worth of funding. Abdul-Sater's lab is interested in identifying regulators of inflammation and understanding the molecular mechanisms through which these regulators control the inflammatory response. With this Award, he will study how a certain protein may prevent, stop or lessen joint inflammation caused by rheumatoid arthritis.



ROBERT ALLISON, Lassonde School of Engineering, was awarded the Tier 2 **York Research Chair** in Stereoscopic Vision and Depth Perception. A member of the Vision: Science to Applications (VISTA) program, he is interested in human perceptual responses in virtual environments, the measurement and analysis of eye movements and technological applications. The Virtual Reality and Perception Laboratory, which he leads, undertakes research in these areas and also studies how the brain, or a machine, can reconstruct a three-dimensional representation of the world.



REBECCA BASSETT-GUNTER, Faculty of Health, received an **Early Researcher Award** from the Ministry of Research, Innovation and Science. This program provides funding to early researchers in Ontario's publicly funded institutions to build a research team. Bassett-Gunter's work is focused on the promotion of physical activity and the development of optimally effective physical activity messages targeting psychosocial predictors of behaviour. She is particularly interested promoting and supporting physical activity among children and youth with disabilities.



JACOB BECK, Faculty of Liberal Arts & Professional Studies, was awarded the Tier 2 **York Research Chair** in Philosophy of Visual Perception. Beck is an associate professor of philosophy, and a member of the Cognitive Science Program, the Centre for Vision Research and the Vision: Science to Applications (VISTA) program. His research interests include the study of mental representation and consciousness from an empirically informed philosophical perspective. His current research centres on three issues: (1) the format of mental representation, (2) the perception-cognition boundary and (3) how consciousness and representation interrelate.

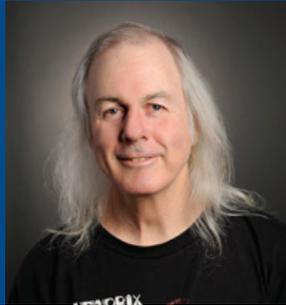


NANTEL BERGERON, Faculty of Science, was honoured with a **Distinguished Research Professorship** from York for his outstanding research contribution to the University. Bergeron, who holds the Tier 1 York Research Chair in Applied Algebra, is one of the pioneers in the development of the theory of combinatorial Hopf algebras that serve as a conceptual laboratory in which researchers can understand and solve complex problems from other areas of science and mathematics. His research program will help to better understand the complexity of algorithms in computer science and mathematics, and to bring further insights into supersymmetry of nature.

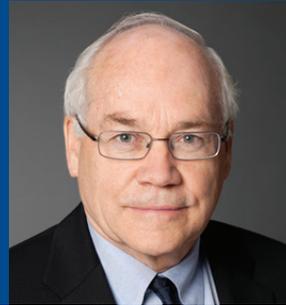


HÉDI BOURAOUI, Faculty of Liberal Arts & Professional Studies, was bestowed the **Order of Canada**, an award for the highest degree of merit, an outstanding level of talent and service, or an exceptional contribution to Canada and humanity. As the Writer in Residence for the Department of French Studies, Bouraoui has published more than 20 books of poetry, 12 collections of critical essays and 15 novels. His research interests include Maghrebian, Sub-Saharan, Caribbean, 20th and 21st Century French and Francophone, and Franco-Ontarian literatures; transculturalism; Mediterranean studies; critical theory; culture; and civilization.

RESEARCH
LEADERS
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ROB BOWMAN, School of the Arts, Media, Performance & Design, was nominated as a producer in the **Best Historical Album** category by the Grammy Awards. This is his sixth Grammy nomination. Bowman pioneered popular music studies in Canada. He lectures, publishes and broadcasts in many areas of popular music and regularly authors, produces and advises on major documentary and CD reissue projects for global record companies. His broadcast credits include guest spots on CBC Radio's "Definitely Not the Opera." His book, *Soulsville U.S.A.: The Story of Stax Records*, was inducted into the Blues Hall of Fame in 2013.



NEIL BROOKS, Professor Emeritus, Osgoode Hall Law School, received the **Lifetime Contribution Award** from the Canadian Tax Foundation (CTF). This award honours those individuals who have made substantial and outstanding contributions to the CTF through their body of work. Brooks has taught tax law and policy at Osgoode for over 35 years. His research interests also include corporate and international tax, and financing the welfare state. He has published extensively and served as editor of several journals: *Canadian Taxation*, the *Osgoode Hall Law Journal* and the *Canadian Tax Journal*.



MICHAEL S. BROWN, Lassonde School of Engineering, was awarded the Tier 1 **Canada Research Chair** in Computer Vision. Brown's research aims to improve our understanding of the physical world through camera images by investigating image formation models that describe how incoming light is converted to camera sensor responses under different imaging scenarios. His program is aligned with York University's \$33.3 million Canada First Research Excellence Fund program, Vision: Science to Applications (VISTA), which focuses on research in biological and computational computer vision.



TONY BURKE, Faculty of Liberal Arts & Professional Studies, earned the **Frank W. Beare Award** from the Canadian Society of Biblical Studies for his scholarly monograph, *The Syriac Tradition of the Infancy Gospel of Thomas: A Critical Edition and English Translation*. This award recognizes an outstanding book in the areas of Christian origins, post-biblical Judaism and/or Graeco-Roman religions. Burke's research interests include the study of Christian biographical literature of the second century (infancy gospels), children and the family in Roman antiquity, curses, and non-canonical Jewish and Christian writings.



JENNIFER CHEN, Faculty of Science, was featured in the **Top 40 Under 40 Power List** in *The Analytical Scientist* magazine. Chen is also the winner of the 2018 Award for Outstanding Early-Career Achievements in Nanoscience and Nanotechnology in Ontario from Nano Ontario. Her work focuses on the understanding and applications of materials for sensing, imaging, energy conversion and optoelectronics. Chen seeks to design better nano building blocks to address challenges in health care and a sustainable future.

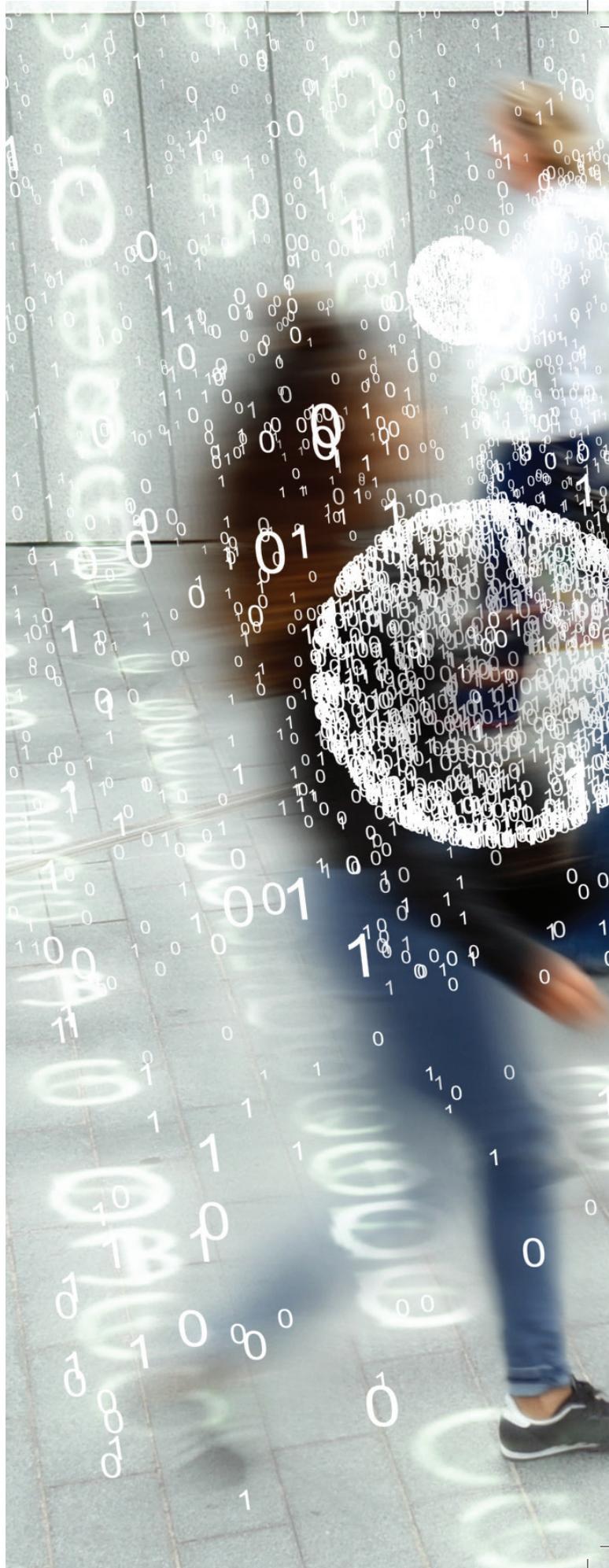


STEVEN CONNOR, Faculty of Science, was awarded the Tier 2 **Canada Research Chair** in Neurophysiology. Connor studies specialized zones of communication between brain cells known as synapses, as mutations in genes that code for proteins involved in synapse organization are heavily implicated in neurodevelopmental diseases, such as autism spectrum disorders (ASDs). ASDs are neurodevelopmental disorders characterized by impaired social and communication skills, as well as stereotyped patterns of behaviour.

ONE OF YORK UNIVERSITY'S
OPPORTUNITIES TO FURTHER
ACCELERATE RESEARCH GROWTH
AND SUCCESS:

DIGITAL CULTURES

Today's digital revolution is driven by a set of rapid and distinctive technological, economic and socio-cultural developments that will continue in the early 21st century. York, a recognized leader in this area, will build on our influence in technological and cultural developments. Researchers will continue to promote critical discourse in digital media art, while through the BRAIN (Big Data Research, Analytics and Information Network) Alliance, they will create new access to the analysis and visualization of big data. Working with key partners, we will strengthen the industry-academic partnerships in the cultural and entertainment sectors. There is both tremendous need and opportunity for research in the digital world at the intersection of the arts, sciences, law and engineering. This vital work will push technological boundaries while critically investigating the digital revolution's social, cultural and legal impacts and the ways in which this is shaping and changing human activity and interaction.





RESEARCH
LEADERS
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**ALEKSANDER
CZEKANSKI,**

Lassonde School of Engineering, earned the **Robert W. Angus Medal** from the Canadian Society for Mechanical Engineering (CSME). Czekanski ran the CSME International Congress, the flagship gathering of the group, in 2018. He has over ten years of industrial experience, especially in design engineering, with a keen understanding of automotive business and financial operations. His interests include design, design optimization and the development of light-weight structures for aerospace and automotive systems; mechanics of materials; and manufacturing processes characterization.



MICHAEL DALY,

Lassonde School of Engineering, earned the 2018 Canadian Aeronautics and Space Institute's **McCurdy Award** for outstanding achievement in the science and creative aspects of engineering relating to aeronautics and space research. He is the Tier 2 York Research Chair in Planetary Science and the director of the Centre for Research in Earth and Space Science. Daly is also the principal investigator for Canada's contribution to NASA's OSIRIS-REx mission (The OSIRIS-REx Laser Altimeter) to the near-Earth asteroid Bennu, which will return Canada's first sample of material from another solar system body.



TAMARA DALY,

Faculty of Health, earned a **Partnership Grant** worth \$2.5 million from the Social Sciences and Humanities Research Council of Canada for her project, "Imagining age-friendly communities within communities." The project's focus is on promising international practices and policies that promote age equity. Daly is a feminist political economist and health services researcher. Her scholarship highlights gender and health, specifically access to care, health outcomes and equity for older adults and for those who provide their care. She is the director of the York University Centre for Aging Research and Education.



JAMES DARROCH, Schulich School of Business, was awarded the **Donner Prize** from the Donner Canadian Foundation for his book *Stumbling Giants: Transforming Canada's Banks for the Information Age*, co-authored with Pat Meredith. This prize encourages and celebrates excellence in public policy writing by Canadians, on topics of great importance to the country. Darroch, associate professor of policy, is the director of the Financial Services Program. His research interests and areas of expertise include policy, strategy, financial services, responsible business, globalization and international business.



MARIO DIPAOLANTONIO, Faculty of Education, was acknowledged for his **Visiting Professorship** at Soka University in Tokyo, Japan, September 2018 to January 2019. This is a highly competitive award from a pool of applicants from 14 countries, who are members of the International Philosophers of Education Network. DiPaolantonio is an international research associate at the Centro de Estudios en Pedagogías Contemporáneas and the Escuela de Humanidades at the Universidad Nacional de San Martín in Buenos Aires, Argentina. For his winter 2019 term, he had a Visiting Professorship at the Sciences Politiques in Toulouse, France.



JAMES ELDER, Faculty of Health and Lassonde School of Engineering, was awarded the Tier 1 **York Research Chair** in Human and Computer Vision. Elder is a professor in the Departments of Psychology, and Electrical Engineering and Computer Science; a member of the Centre for Vision Research; and a core member of the Vision: Science to Applications (VISTA) program at York University. His research focuses on the development of novel and useful computer vision algorithms and machine vision systems through a better understanding of visual processing in biological systems.

**RESEARCH
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HANY FARAG, Lassonde School of Engineering, received an **Early Researcher Award** from the Ministry of Research, Innovation and Science. Farag's research interests include the integration of distributed and renewable power generation, energy storage and electric vehicles, renewable hydrogen production and storage, and smart grids. Farag has also secured funding for projects in sustainable energy from the Natural Sciences and Engineering Research Council of Canada, the Independent Electricity System Operator Conservation Fund and the Local Distribution Companies Tomorrow Fund. Since joining York University in 2013, he has published over 45 top-tier journal articles and peer-reviewed conference papers.



GORDON FLETT, Faculty of Health, was awarded the **Tier 1 Canada Research Chair** in Personality and Health (renewed). He is most recognized for his seminal contributions to research and theory on the role of perfectionism in psychopathology and health. His collaborative work with Paul Hewitt (University of British Columbia) on perfectionism has received widespread national and international attention, and has been the subject of numerous media stories, including coverage on CTV, CNN and the BBC. Flett is the director of York University's LaMarsh Centre for Child and Youth Research.



MICHAEL FRIENDLY, Faculty of Health, was elected as a **Fellow** in the American Statistical Association. Friendly's current research involves methods for statistical graphics and data analysis, with emphasis on graphical methods for categorical data. He has published several books and papers, most recently, the book *Discrete Data Analysis with R: Visualization and Modeling Techniques for Categorical and Count Data*. He is also a recognized world leader in the history of data visualization. A future book in this area is under contract with Harvard University Press.



WENONA GILES, Professor Emerita, Faculty of Liberal Arts & Professional Studies, was elected as a **Fellow** in the Royal Society of Canada. These Fellows are distinguished men and women from all branches of learning who have made remarkable contributions in the arts, the humanities and the sciences, as well as in Canadian public life. Giles continues to publish in the areas of gender, migration, forced migration, refugee issues, protracted refugee situations, ethnicity, nationalism, work, globalization, war and education. She currently co-leads the Borderless Higher Education for Refugees project.



DAVID B. GOLDSTEIN, Faculty of Liberal Arts & Professional Studies, was chosen as a **Co-Director** of "Before 'Farm to Table:' Early Modern Foodways and Cultures," the inaugural project of the Andrew W. Mellon Foundation in collaborative research at the Folger Shakespeare Library in Washington, DC. This three-year, \$1.5 million, interdisciplinary initiative investigates the way food participates in and shapes human knowledge, ethics and imagination. While in residence at the Folger, he is also writing a scholarly monograph, *With Whom We Eat: Literature and Commensality*.



SHERRY GRACE, Faculty of Health, was awarded the **Michael J. Pollock Established Investigator Award** from the American Association of Cardiovascular and Pulmonary Rehabilitation in recognition of her research and leadership in advancing cardiac care quality and outcomes globally. Grace has published over 225 papers, authored clinical practice guidelines and quality indicators, and held \$10+ million in research funding. She was instrumental in the development of the International Council on Cardiovascular Prevention and Rehabilitation, serving on the Executive Board since inception.

ONE OF YORK UNIVERSITY'S
OPPORTUNITIES TO FURTHER
ACCELERATE RESEARCH GROWTH
AND SUCCESS:

**HEALTHY INDIVIDUALS,
HEALTHY COMMUNITIES
AND GLOBAL HEALTH**

Understanding health in the future requires approaches that transcend archaic boundaries of just the physical body and understands health as a consequence of biology interacting with cultural, social, legal, environmental, technological and economic contexts. Over the next five years, York sets out to develop new questions that need to be asked and answer current questions within the field of health transdisciplinary approaches. From biomolecular engineering to the health of populations, and from healthy aging to global child health, researchers will fully realize the potential of, and accelerate the success of, recently launched initiatives such as the Dahdaleh Institute for Global Health Research and Vision: Science to Applications (VISTA). Over the longer term, York maintains its aspiration for a new kind of medical school to focus on integrated interdisciplinary care.





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BRYN GREER-WOOTTEN, Professor Emeritus, Faculty of Liberal Arts & Professional Studies, has been awarded the **Karel Engliš Honorary Medal for Merit in the Social and Economic Sciences** from the Czech Academy of Sciences. This medal is for outstanding contributions of Czech and foreign scholars. In 2002-2003, Greer-Wootten was appointed as Visiting Scientist in the Academy. He was then invited to join the Editorial Board of the *Moravian Geographical Reports*, an international geographical journal. In 2009, he became Editor-in-Chief of the journal, a position he retains to the present.



RYAN HILI, Faculty of Science, received an **Early Researcher Award** from the Ministry of Research, Innovation and Science to build a research team. Hili's research focuses on using DNA to program and encode the synthesis of molecular libraries ranging from small molecules to synthetic biopolymers. By using the principles of Darwinian evolution, his lab can evolve these molecular libraries for desired function, yielding small molecule drugs to treat human disease or antibody mimetics for use in medical diagnostics. Hili was also awarded the Petro-Canada Young Innovator Award in 2018.



CAROLINE SHENAZ HOSSEIN, Faculty of Liberal Arts & Professional Studies, received an **Early Researcher Award** from the Ministry of Research, Innovation and Science. This program provides funding to new researchers in Ontario's publicly funded institutions to build a research team. Hossein's research interests are in diverse community economies and innovation with specific attention to identities. Her work on business exclusion is grounded in liberation and feminist theorizing, and the lived experience. She will use this Award to study business and social innovation among racialized people.



LESLEY A. JACOBS, Faculty of Liberal Arts & Professional Studies, was awarded the Tier 1 **York Research Chair** (YRC) in Human Rights and Access to Justice. Appointed as a YRC, he will focus his research on establishing an innovative Access to Justice Research Lab, which will serve as an incubator for the most important primary empirical research on access to justice in Canada. Jacobs was elected a Fellow of the Royal Society of Canada in 2017. He is also the director of the Institute for Social Research at York University.



MIHYON JEON, Faculty of Liberal Arts & Professional Studies, was acknowledged by the Academy of Korean Studies for being the **Deputy Project Director** of the project "Korea in the World, The World in Korean Studies," Core University Program for Korean Studies. This work was funded by a \$1+ million grant. Jeon's interests include Korean language education as heritage language in North America, and English as second language education in Asia. She focuses on language ideologies and maintenance issues among Korean immigrants, as well as native-speaking English teachers' transnational experiences and identities, pertaining to teachers living in Asia.



CHRISTINE JONAS-SIMPSON, Faculty of Health, was acknowledged for the grant-supported film: "**Cracked: new light on dementia**," which she co-produced. It was selected for screening at Hot Docs Cinema. Jonas-Simpson is an Associate Professor of Nursing and director of the Dotsa Bitove Wellness Academy for persons living with dementia. She conducts critical arts-based research through music, paintings, drama and film, focusing on how humans live and transform with loss. Her research contributes to shifting the discourse and culture of dementia care from isolation and tragedy to relationships and possibility.

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EDWARD JONES-IMHOTEP, Faculty of Liberal Arts & Professional Studies, was awarded the **Sidney Edelstein Prize** from the Society for the History of Technology for his book *The Unreliable Nation: Hostile Nature and Technological Failure in the Cold War*. In the award's 50-year history, Jones-Imhotep is the second faculty member from a Canadian university to receive the award - the most prestigious book prize in the history of technology. His current project, funded by the Social Sciences and Humanities Research Council of Canada, titled "Reliable Humans, Trustworthy Machines," explores how technological failures have historically been experienced as a problem of the self.



JOAN JUDGE, Faculty of Liberal Arts & Professional Studies, was elected as a **Fellow** in the Royal Society of Canada. These Fellows are distinguished men and women from all branches of learning who have made remarkable contributions in the arts, the humanities and the sciences, as well as in Canadian public life. Judge has reshaped our understanding of modern Chinese history through methodologically innovative studies in Chinese print culture, periodical studies and women's history. Prominent among her publications are three books: *Print and Politics*, *The Precious Raft of History* and *Republican Lens*.



KAMALA KEMPADOO, Faculty of Liberal Arts & Professional Studies, earned a **Lifetime Achievement Award** from the Caribbean Studies Association. This award recognizes outstanding achievements by a living scholar in academic leadership relating to the multi-disciplinary field of Caribbean Studies. Kempadoo is a professor in the Department of Social Science, with graduate appointments in Gender, Feminist and Women's Studies, Political Science, Social and Political Thought, and Development Studies. Her areas of specialization include transnational and Caribbean feminisms, critical anti-trafficking discourses, Sex Work studies, Black radical and feminist thought, and gender and development.



MAGDALENA KROL, Lassonde School of Engineering, is co-leading a grant largely funded by the Ontario Research Fund's **Research Excellence Program.** The total value of the grant is \$4 million. Krol will work in collaboration with the Nuclear Waste Management Organization and partnering universities, including Western University, the University of Toronto and the University of Waterloo. This project will help demonstrate the long-term safety of storing used nuclear fuel in deep geological repositories by examining the physical and chemical interactions between fuel containers and the deep subsurface.



REGINA LEE, Lassonde School of Engineering, won a **Collaborative Research and Development Grant** from the Natural Sciences and Engineering Research Council of Canada. Lee develops efficient systems and infrastructure for space flight and directs the Communications and Operations Laboratory. She is interested in nanosatellite technology development. Nanosatellites are spacecraft with a mass less than 10 kg. They are valuable tools for demonstrating new technologies in space as well as an effective means to educate space engineering professionals due to their relatively low cost.



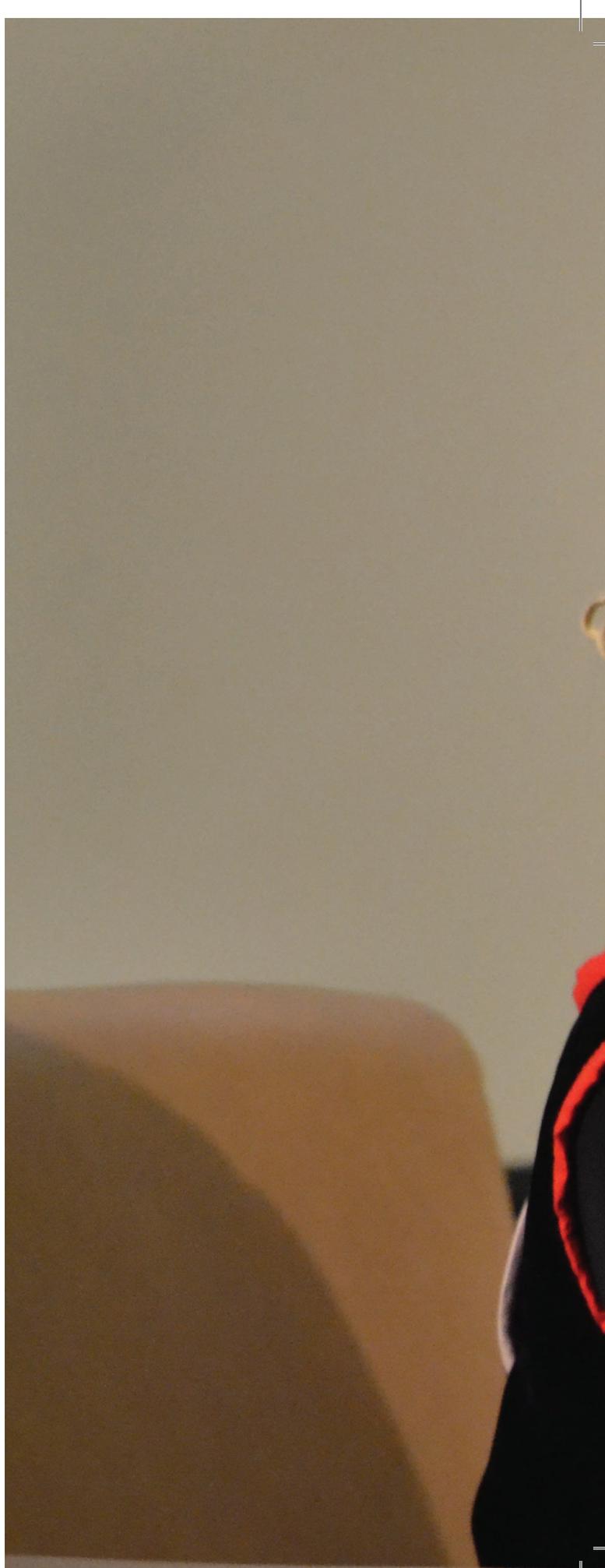
EVAN LIGHT, Glendon, is recognized for his research-creation project "**Snowden Archive-in-a-Box,**" which was an invited installation at Falling Walls: International Conference on Future Breakthroughs in Science and Society in 2018. An offline archive of the Edward Snowden files, this creation is used for surveillance and privacy education, and research in universities and libraries. It is also being exhibited internationally. Light is director of "Border Probes," a research project documenting experiences crossing the American-Canadian border and the border surveillance apparatus.

ONE OF YORK UNIVERSITY'S
OPPORTUNITIES TO FURTHER
ACCELERATE RESEARCH GROWTH
AND SUCCESS:

INDIGENOUS FUTURITIES

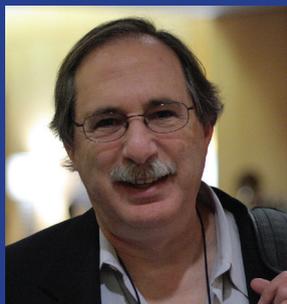
Indigenous futurities acknowledges the power of research that embraces future potential and past reality as integral to sound, contemporary work. In the next five years, Indigenous leadership in York's collaborative, socially engaged research will create a unique space to support contributions to Indigenous knowledges within and beyond the academy. At this time, truth, reconciliation and justice are focusing the attention of York's Indigenous and non-Indigenous scholars working in these areas. In articulating this research opportunity, York affirms a commitment to respectful, relevant, Indigenous-formed and -led research, scholarship and related creative activity. This Indigenous-focused research promises positive and critically needed change to policy, practice, community and cultural life and ultimately, relationships among us all.

Image: A young role model for First Nations women, Autumn Peltier, represented her community at a knowledge-sharing symposium, part of the Indigenous Environmental Justice Project (www.iejproject.info.yorku.ca).





RESEARCH LEADERS 2018



BERNARD LIGHTMAN, Faculty of Liberal Arts & Professional Studies, was honoured with a **Distinguished Research Professorship** from York for his outstanding research contribution to the University. Lightman, in the Humanities Department, is Fellow of the Royal Society of Canada and President of the History of Science Society. Among his most recent publications are *A Companion to the History of Science* and *Science Museums in Transition* (co-edited with Carin Berkowitz). He is currently one of the editors of the John Tyndall Correspondence Project, an international collaborative effort to obtain, digitalize, transcribe and publish all surviving letters to and from Tyndall.



CARLA LIPSIG-MUMME, Faculty of Liberal Arts & Professional Studies, earned an **Impact Award** (Partnership category) from the Social Sciences and Humanities Research Council of Canada (SSHRC) for spearheading the Work and Climate Change network partnership. This project, which addresses the intersection of climate change and the working world, has grown from five partners and eight researchers to 52 partners over the past two decades. The Impact Award identifies the highest achievements of SSHRC-funded research, knowledge mobilization and scholarship. In 2018, Lipsig-Mumme was also awarded the Sefton-Williams Award for Contributions to Labour Relations.



MARIN LITOIU, Faculty of Liberal Arts & Professional Studies and Lassonde School of Engineering, earned a **Collaborative Research and Training Experience grant** from the Natural Sciences and Engineering Research Council of Canada. He leads the Adaptive Software Research Lab and focuses on making large software systems more versatile, resilient, energy-efficient, self-healing and self-optimizing. With support from Innovation York and MaRS Innovation, Litoiu launched Bitnobi, a start-up company that allows data providers to share access to data in a secure manner without releasing raw data or making copies of them.



JANINE MARCHESSAULT, School of the Arts, Media, Performance & Design, won a **Partnership grant** from the Social Sciences and Humanities Research Council of Canada. This grant, worth \$2+ million over six years, is called "Archive/Counter-Archive: Activating Canada's Moving Image Heritage." It involves 43 co-applicants and has collaborators from Canada and across the globe. This important project seeks to redress the unevenness of Canadian preservation efforts thus far by emphasizing Canada's most vulnerable moving image heritage - women's media; Indigenous media arts; films and media from the lesbian, gay, bisexual, transsexual, two-spirited and queer (LGBT2Q) community; and archives from Canada's immigrant communities.



STEPHANIE MARTIN, School of the Arts, Media, Performance & Design, earned the **Creative Achievement Award** from Llandoverly Castle. She wrote an opera based on the World War I Canadian hospital ship, the Llandoverly Castle, and the 14 nurses who died when the ship was torpedoed in June 1918. Martin is a composer and conductor in the Department of Music, Conductor Emeritus of the Pax Christi Chorale, director of the Schola Magdalena (a women's ensemble specializing in the performance of chant and medieval polyphony) and past director of music at the historic Church of Saint Mary Magdalene.



DIRK MATTEN, Schulich School of Business, won the **Paper of the Decade Award** from the Academy of Management Review, one of the top journals in this field. He was also acknowledged as the only academic in the Top 100 Corporate Social Responsibility Influence Leaders list, compiled by Assent Compliance. Those on the list were selected for embodying corporate social responsibility and using their influence to help others establish or improve their corporate social responsibility programs. He holds the Hewlett-Packard Chair in Corporate Social Responsibility at York University.

RESEARCH
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2018



DEBORAH MCGREGOR, Osgoode Hall Law School and Faculty of Environmental Studies, was recognized for her **Indigenous Environmental Justice Program**, mentioned in the 2018 Federal Budget. McGregor is working to advance environmental justice scholarship by engaging with Indigenous intellectual traditions. Her research program seeks to develop a framework based on Indigenous knowledge systems and the lived experience of Indigenous peoples. Her research will provide a deeper understanding of environmental injustices facing Indigenous peoples and lead to viable approaches to addressing such challenges. She is the Tier 2 Canada Research Chair in Indigenous Environmental Justice.



GAIL MITCHELL, Professor Emeritus, Faculty of Health, was acknowledged for her grant-supported film: **"Cracked: new light in dementia."** It was selected for screening at Hot Docs Cinema. This is a research-based drama that opens conversation and raises important questions about the ways persons with dementia are understood and treated in society. Developed collaboratively with researchers (including Christine Jonas-Simpson), artists, persons with dementia and their families, the play is an engaging way to share insights and examine the role we play in the lives of persons living with dementia. Mitchell is a professor in the School of Nursing.



JOHN MOORES, Lassonde School of Engineering, was elected as a **Member of the College of New Scholars** in the Royal Society of Canada. He is an internationally recognized planetary scientist and space engineer whose research explores the atmospheres and surfaces of other worlds. His research group has been a member of the science and operations teams of five ESA and NASA space missions to Mars and Titan, and has been awarded the NASA group achievement award on 16 occasions. Moores has published 61 papers garnering more than 4,700 citations.



AMY MUISE, Faculty of Health, was bestowed an **Early Researcher Award** from the Ministry of Research, Innovation and Science. Muise's research, based in the Department of Psychology, tests the idea that couples who engage in self-expanding activities will maintain higher sexual desire and relationship satisfaction over time. This is important given that long-lasting, happy relationships are key contributors to overall health and well-being, and that lowering the divorce rate helps to reduce financial instability and negative health and psychological consequences for Canadian families.



LAURENCE PACKER, Faculty of Science, was recognized as a **Fellow** in the Royal Entomological Society (London, United Kingdom). Packer conducts research on the evolution and biogeography of the world's 20,000+ species of bees; and oversees one of the most diverse collections of bees in the world, housing specimens from over 100 countries. He and his students have published 200+ papers on bees and described over 150 new species. The author of two books, he chairs the campaign to obtain DNA barcodes of all of the world's bees. Just over 30 per cent have already been sequenced.



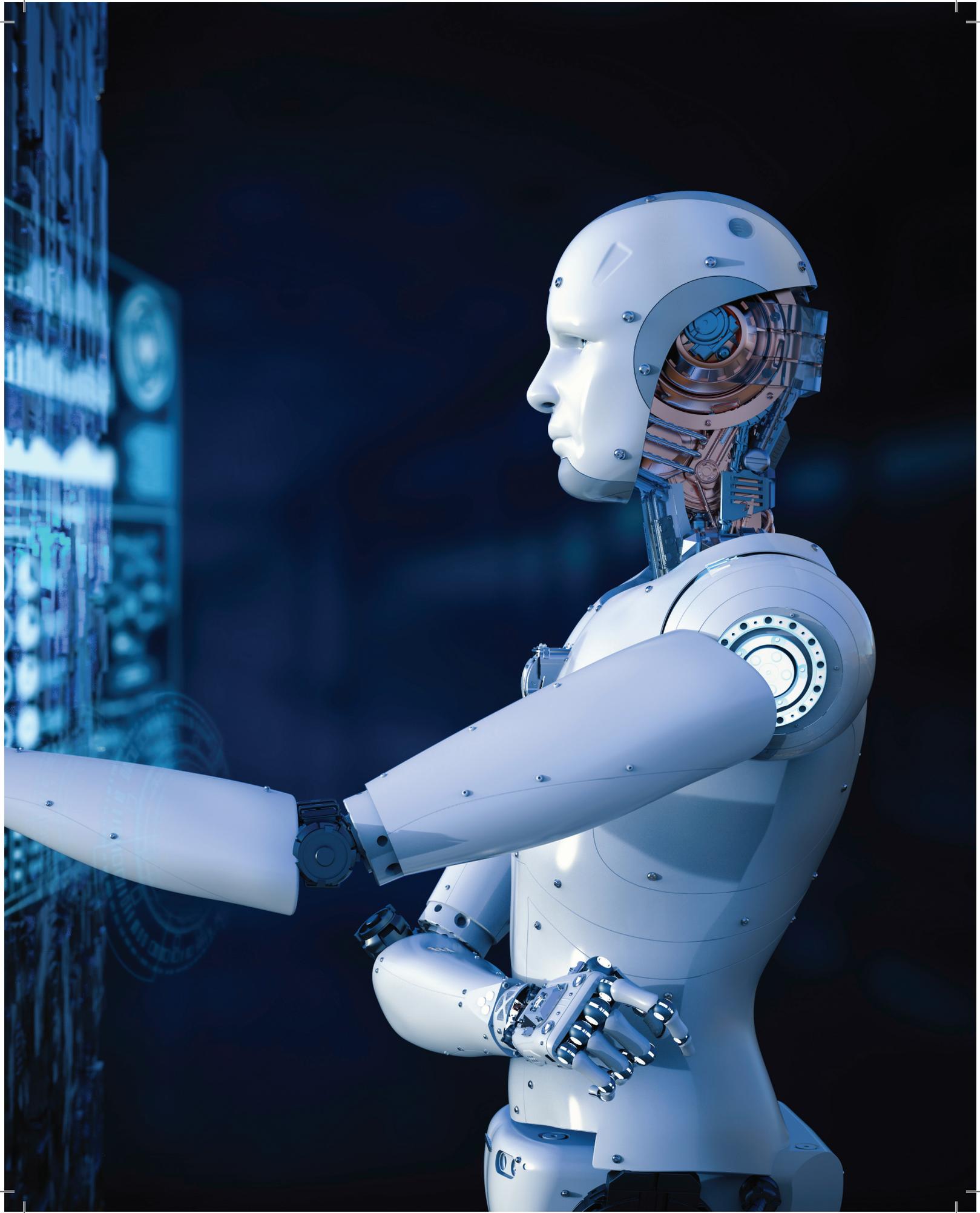
JEAN-PAUL PALUZZI, Faculty of Science, received an **Early Researcher Award** from the Ministry of Research, Innovation and Science. Paluzzi studies the biology of disease vectors, including ticks and mosquitoes. Specifically, his work examines neuroendocrine systems, which are central in regulating the fundamental biology of these organisms. This research will benefit the larger endocrinology community, since many hormone systems are found in other animals, including humans. It will accelerate the development of novel compounds and strategies aimed at reducing the prevalence of disease vectors, which is of significant concern in Ontario.

ONE OF YORK UNIVERSITY'S
OPPORTUNITIES TO FURTHER
ACCELERATE RESEARCH GROWTH
AND SUCCESS:

INTEGRATION OF ARTIFICIALINTELLIGENCE (AI) INTO SOCIETY

From smartphones that order our morning coffee to the remote calibration of computers in the outer reaches of our galaxy, AI pervades almost every aspect of our life. York will continue to soar to the forefront in visual perception technologies, space exploration, robotics and manufacturing technologies, remote sensing, intelligent information systems and cognitive analytics over the next five years. Building on our unique niche, we will do so alongside global intellectual leaders in the humanities, social sciences, health and law, who are laying new ground expounding the moral, ethical and legal implications of AI adoption.

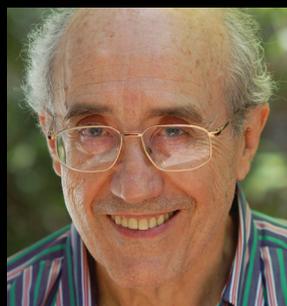




RESEARCH
LEADERS
2018



HYUN OK PARK, Faculty of Liberal Arts & Professional Studies, was acknowledged by the Academy of Korean Studies for being the **Project Director** for “Korea in the World, The World in Korean Studies,” Core University Program for Korean Studies. This work was funded by a \$1+ million grant. Her books include *Two Dreams in One Bed: Empire, Social Life, and the Origins of the North Korean Revolution in Manchuria* and *The Capitalist Unconscious: From Korean Unification to Transnational Korea*. She is on the editorial board of *Global Perspectives* (University of California Press).



JUAN PASCUAL-LEONE, Professor Emeritus, Faculty of Health, was named as a **Fellow** in the Association for Psychological Science. This Association is considered by many to be the most distinguished international association of research psychologists. This appointment recognizes Pascual-Leone’s years of sustained contributions to the science of psychology in the field of cognitive development, beginning in the 1970s and continuing today with on-going funding from the Natural Sciences and Engineering Research Council of Canada. Pascual-Leone’s career at York University spanned 50 years. He is also a Fellow of the Van Leer Jerusalem Foundation.



CHRISTOPHER PERRY, Faculty of Health, received an **Early Researcher Award** from the Ministry of Research, Innovation and Science. Perry’s laboratory investigates how poor metabolism in cells can cause different diseases, which affect mobility and longevity. The Early Researcher Award will facilitate specific research on muscle weakness in Duchenne muscular dystrophy - a debilitating disease that causes severe immobility as well as breathing and heart dysfunction. With the support of this Award, Perry’s ongoing research will develop novel therapies that rejuvenate healthy metabolism and partially prevent muscle weakness in this disease.



REGINA RINI, Faculty of Liberal Arts & Professional Studies, was awarded the Tier 2 **Canada Research Chair** in Philosophy of Moral and Social Cognition. Rini's research focuses on how people in democratic societies justify their social beliefs. A member of the Vision: Science to Applications (VISTA) program, she investigates philosophical questions about what it means to improve public debate and argues that we cannot understand our individual moral and political decisions in a vacuum. She received the 2018 Marc Sanders Award for Public Philosophy for her essay "The Last Mortals."



ANNE RUSSON, Glendon, was honoured with a **Distinguished Research Professorship** from York for her outstanding research contribution to the University. Russon is an exceptional scholar with a record of research, publication, outreach and leadership. She is internationally recognized for her accomplishments as a behavioural primatologist and leading expert on orangutans. For 30 years, her research has broken new ground on great ape intelligence. Her pioneering work focuses on the way in which great apes use their cognitive abilities to solve problems, the evolutionary origins of these abilities and their implications for human intelligence.



DAYNA NADINE SCOTT, Osgoode Hall Law School and the Faculty of Environmental Studies, was awarded the Tier 2 **York Research Chair** in Environmental Law and Justice in the Green Economy. She is a co-director of Osgoode's Environmental Justice and Sustainability Clinic, and a co-coordinator of the joint Juris Doctor/Master in Environmental Studies program. Scott's research and teaching focus on the fairness and equity dimensions of environmental law and policy, with attention to gender, race and class. She employs community-based participatory methods in partnership with communities affected by pollution, toxics and extractive industries.

RESEARCH
LEADERS
2018



LAUREN SERGIO, Faculty of Health, was awarded the Tier 1 **York Research Chair** in Brain Health and Skilled Performance. Her research investigates the effects of age, sex, neurological disease, head injury and experience on the brain's control of complex movement. Sergio works with a wide range of adult populations, including NHL draft prospects and Alzheimer's disease patients. She is a member of the Centre for Vision Research, the York Lions Sport Medicine Team and the Vision: Science to Applications (VISTA) program. She is also a research affiliate at Southlake Regional Health Centre.



PARBUDYAL SINGH, Faculty of Liberal Arts & Professional Studies, earned the inaugural **Distinguished Human Resources Professional Award** from the Human Resources (HR) Professionals Association. This award is granted to those who have made a significant contribution to HR through developing and sharing innovative ideas, practices and policies; demonstrating a strong history of service to HR associations and the broader community; and publishing work in their area of HR expertise. Singh has co-authored two textbooks and more than 100 refereed publications. He has won several teaching and research awards at York University.



ISAAC SMITH, Lassonde School of Engineering, was awarded the Tier 2 **Canada Research Chair** in Planetary Science. He was selected for this position to conduct work investigating climatic processes on Mars related to water and carbon dioxide ices at sizes ranging from ice crystals to the planet-wide distribution of ice. As a co-investigator on Mars Reconnaissance Orbiter, his research focuses on data analysis, atmospheric modeling and laboratory investigations of ice. Smith came to York University in 2018 from the Planetary Science Institute, where he was a research scientist.



JENNIFER STEELE, Faculty of Health, was awarded the **York-Massey Fellowship**. This has provided her with office space and the status of a full Senior Fellow at Massey College, University of Toronto, during her sabbatical. Her research, funded by the Social Sciences and Humanities Research Council of Canada and Canada Foundation for Innovation, examines stereotyping, prejudice and discrimination from a social cognitive perspective. She has built teams of students to undertake studies throughout the Greater Toronto Area in camps, schools and community locations to increase our understanding of how and when children's gender and racial biases develop.



PAUL SYCH, School of the Arts, Media, Performance & Design, was elected as a **Fellow** in the Royal Society of Canada. Sych's work spans over two decades of graphic expression, innovation and exploration. His unique eye has lent his vision and strategy by designing and creating brand identities, complete books and notable magazine titles, while incorporating custom typography and the art of hand lettering. His work has appeared in over 100+ publications internationally. Highlights from his career include winning 100+ design awards since 2010.



KATE TILLECZEK, Faculty of Education, was awarded the Tier 1 **Canada Research Chair** in Young Lives, Education and Global Good. She is founder and director of the Young Lives Research Laboratory, which employs a global, interdisciplinary approach to research into how young people navigate well-being in the digital age. Tilleczek's research examines how education must be redesigned to support young people, and provides data on critical risk and protective situations encountered and negotiated by today's youth. Her work also documents how marginalized youth are affected by shifting global and local contexts, such as digital technology and mental health challenges.

ONE OF YORK UNIVERSITY'S
OPPORTUNITIES TO FURTHER
ACCELERATE RESEARCH GROWTH
AND SUCCESS:

**PUBLIC ENGAGEMENT
FOR A JUST AND
SUSTAINABLE WORLD**

As growth in human activity continues, there are ever-greater pressures on our environment and societies from climate change and the proliferation of disease, both of which are contributing to increasing inequalities among peoples. Across York's disciplines, our scholars will be recognized as world leaders in research on the origins, nature and consequences of inequality and oppression, as well as key environmental and societal challenges. Researchers are coming together in interdisciplinary teams and working to tackle an expanding range of issues, including migration, strategies for youth homelessness and engineering solutions for water and energy security; and responding to natural and human-made disasters with an internationally leading simulation centre for emergency management.





**RESEARCH
LEADERS
2018**



JOHN TSOTSOS, Lassonde School of Engineering. His Tier 1 **Canada Research Chair** in Computational Vision was renewed in 2018. Tsotsos is the director of the Centre for Innovation in Computing at Lassonde, the Distinguished Research Professor of Vision Science at York University and a member of the Vision: Science to Application (VISTA) program. In 2010, he was elected Fellow of the Royal Society of Canada. In 2018, he was named as a Fellow of the IEEE. He holds Adjunct Professorships in the Departments of Computer Science and of Ophthalmology and Vision Sciences at the University of Toronto.



ETHEL TUNGOHAN, Faculty of Liberal Arts & Professional Studies, was awarded the Tier 2 **Canada Research Chair** in Canadian Migration Policy, Impacts and Activism. Her work has been published in numerous peer-reviewed academic journals and books. Her book manuscript, *From the Politics of Everyday Resistance to the Politics from Below: Migrant Domestic Workers in Canada*, won the 2014 National Women's Studies Association Best Dissertation/First Book Prize. Tungohan is a strong proponent of socially engaged research and spends much of her time organizing with Gabriela-Ontario, a Filipina feminist organization.



DAVID VAVER, Osgoode Hall Law School, was elected as a **Fellow** in the Royal Society of Canada in recognition of his research and mentoring in the field of intellectual property law and policy in Canada and internationally. Fellows in the Royal Society are distinguished men and women from all branches of learning who have made remarkable contributions in the arts, the humanities and the sciences, as well as in Canadian public life. Vaver, a professor of intellectual property law at York University, is also a member of the Order of Canada.



JONATHAN WEISS, Faculty of Health, was awarded the Tier 2 **York Research Chair** in Autism and Neurodevelopmental Disability Mental Health. His research focuses on the prevention and treatment of mental health problems in people with autism and/or intellectual disabilities across the lifespan. Weiss held the Canadian Institutes of Health Research Chair in Autism Spectrum Disorders Treatment and Care Research. He completed a postdoctoral fellowship in the Dual Diagnosis Program at the Centre for Addiction and Mental Health and was a research fellow in the Department of Psychiatry at the University of Toronto.



RICHARD WILDES, Lassonde School of Engineering, was awarded the Tier 1 **York Research Chair** in Computational Vision. He is an Associate Professor in the Electrical Engineering and Computer Science Department and associate director of York's Vision: Science to Applications (VISTA) program. Prior to joining York University, he worked at SRI developing computer vision technologies for real-world applications, including iris recognition - a field in which he is widely considered a pioneer. His research interests are computational vision, especially video understanding, as well as machine vision applications and artificial intelligence.



DEANNE WILLIAMS, Faculty of Liberal Arts & Professional Studies, was awarded a **Killam Research Fellowship** from the Canada Council for the Arts for her project "The Girl on Stage in Early Modern England." These Fellowships are awarded to Canadian scholars who have made a significant and remarkable contribution to their respective fields in the humanities, social sciences, natural sciences, health sciences or engineering. Williams is a scholar of Medieval and Renaissance literature. In 2014, she published *Shakespeare and the Performance of Girlhood*, the first scholarly study devoted to the subject of girls and girlhood in Shakespeare.

RESEARCH
LEADERS
2018



DEREK WILSON, Faculty of Science, was awarded the Tier 2 **York Research Chair** in Molecular Mechanisms of Disease. He specializes in developing novel mass-spectrometry methods to investigate biomedical problems. Wilson is leading a \$1.6-million National Science and Engineering Research Council (NSERC) Collaborative Research and Training Experience program, “Mass Spectrometry-Enabled Science and Engineering,” and a \$1.5 million NSERC Collaborative Research and Development program, “Technology-enhanced Biopharmaceuticals Development and Manufacturing.” He is director of the Centre for Research in Mass Spectrometry and vice-president of the Canadian Society for Mass Spectrometry.



DAN ZHANG, Lassonde School of Engineering, was awarded the Tier 1 **York Research Chair** in Advanced Robotics and Mechatronics. He is a well-accomplished educator and an internationally renowned expert in the areas of robotics and mechatronics. His influential scientific contributions have led to novel robotic system designs and the development of new comprehensive models for better understanding of globe stiffness and robotic calibrations. His research applications have tackled some of the world's most challenging problems in high-dynamic performance manufacturing robotic systems.



HUAIPING ZHU,
Faculty of Science, was awarded the Tier 1 **York Research Chair** in Applied Mathematics. He is the director of the Center of Disease Modeling and director of the Laboratory of Mathematical Parallel Systems at York University. Zhu's research focuses on dynamical systems and differential equations, mathematical ecology and epidemiology, and climate change modeling and impact. A professor of mathematics, he develops mathematical models, theories, methodologies and tools for the prevention and control of infectious diseases.

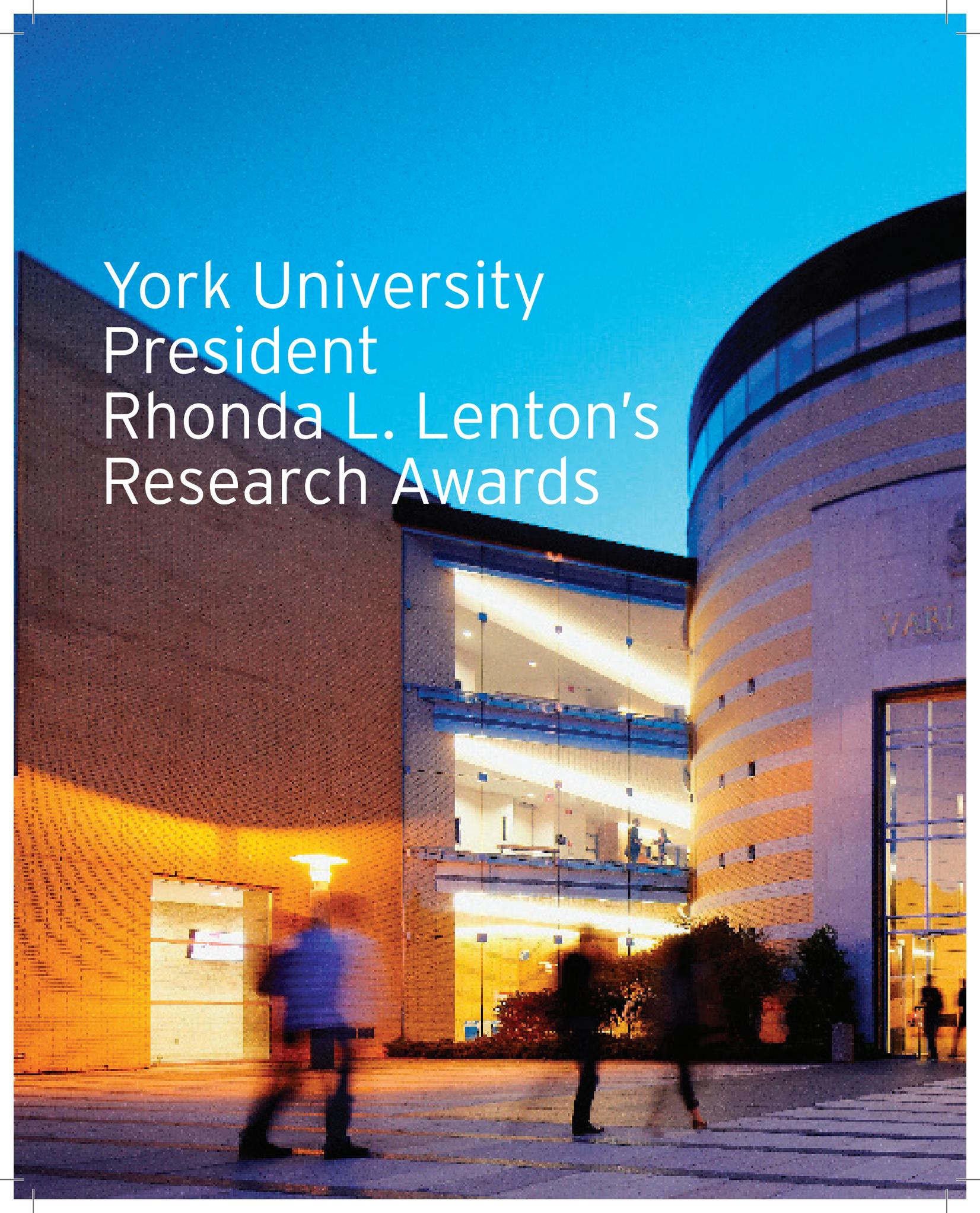


GEORG ZOIDL,
Faculties of Health and Science, was awarded the Tier 1 **Canada Research Chair** in Molecular and Cellular Neuroscience (renewal). Zoidl is in the Department of Psychology (Health) and the Department of Biology (Science). His research examines the functions of nerve cells in the brain and the visual system as a means to understanding overall brain activity in health and disease. In this process, he explores the molecular and cellular machinery enabling communication processes in the brain that contribute to vision, learning and memory, and disease-causing conditions.

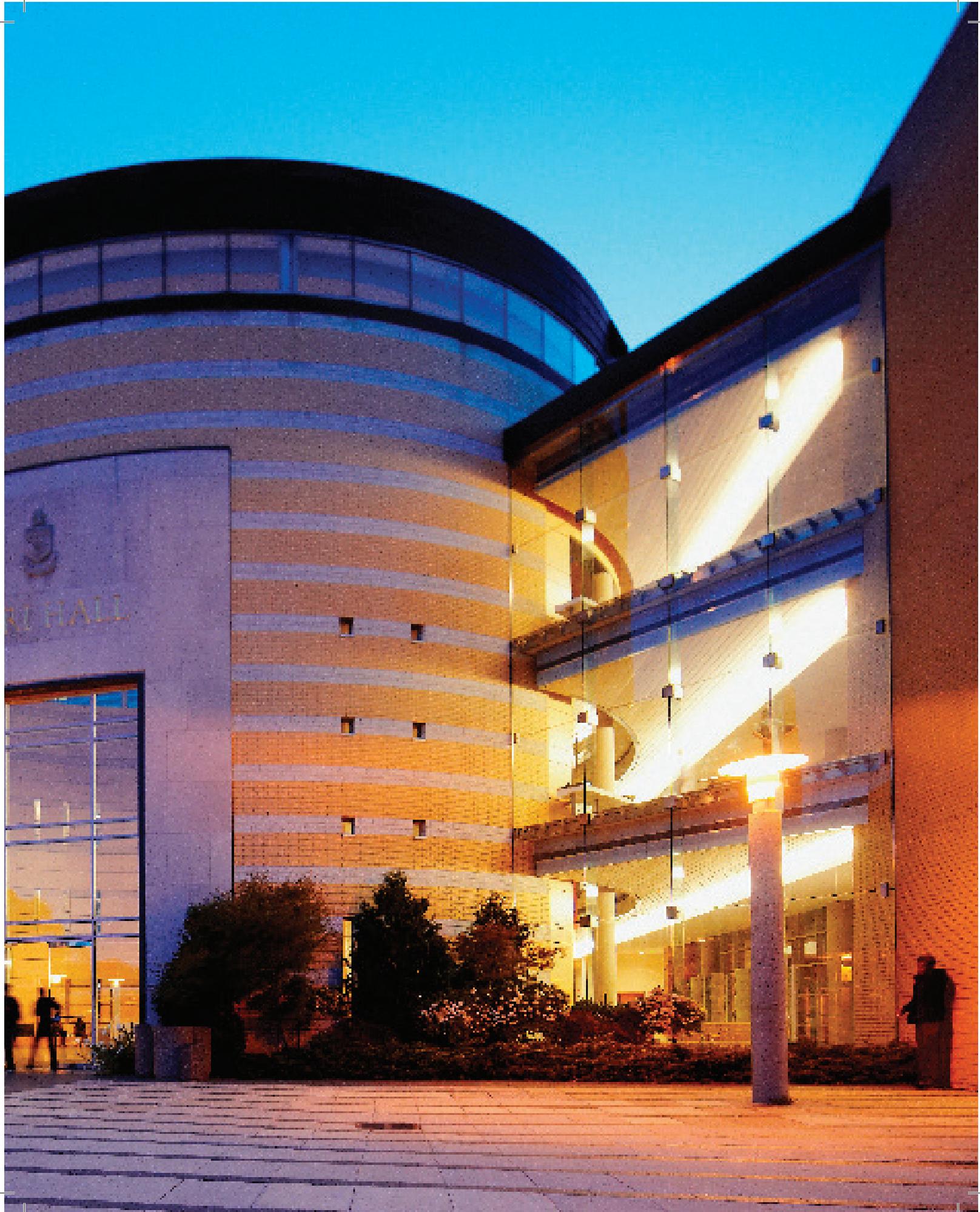
Congratulations are also extended to

Vanier Canada Graduate Scholars

**Susan Chiblow
Leigha Comer
Rivka Green
Natasha Henry
Hannah Rackow**

A nighttime photograph of a modern university building. The building features a curved facade with horizontal bands of light-colored material and a large glass-enclosed elevator shaft. The interior lights are on, and the sky is a deep blue. In the foreground, several people are walking, their figures slightly blurred. The text "York University President Rhonda L. Lenton's Research Awards" is overlaid in white on the left side of the image.

York University
President
Rhonda L. Lenton's
Research Awards



**PRESIDENT'S EMERGING RESEARCH
LEADERSHIP (PERLA) AWARD
2019**



Christine Till
Department of Psychology,
Faculty of Health

Christine Till, Department of Psychology, Faculty of Health, was selected for this Award as a reflection of her original research program that studies the neurotoxicity of fluoride exposure. Due to the public health and public policy implications associated with this research, it has received much international, national and local attention. Following a discovery Till made with a graduate student, which found an association between ADHD and public water fluoridation, she is spearheading a major initiative to examine how early life exposure to fluoride contributes to child health outcomes. In this project, she is conducting fluoride analysis from urine samples that were collected from almost 2,000 pregnant women across Canada.

Till is also participating in a study on fluoride exposure, in Mexico City, led by researchers at the University of Toronto. In addition, she serves as the lead research psychologist for a national project based at SickKids Hospital to determine the metrics of long-term prognoses of patients with pediatric-onset multiple sclerosis.

Till's deep commitment to mentoring students is exemplified by her leadership of a large research team, supervision of clinical psychology students in the York University Psychology Clinic, and supervision and mentoring of numerous post-doctoral fellows, graduate and undergraduate students, and research assistants.

**PRESIDENT'S EMERGING RESEARCH
LEADERSHIP (PERLA) AWARD
2019**



Marcello Musto
Department of Sociology, Faculty
of Liberal Arts & Professional
Studies

Marcello Musto, Department of Sociology, Faculty of Liberal Arts & Professional Studies, was selected for this Award as a reflection of his scholarly publications. He is acknowledged globally as one of the key authors who has made very significant contributions to the revival of Marx studies. In particular, he has reconstructed the stages of Marx's critique of capitalism in light of the new historical-critical edition of his writings. Musto has an impressive publication record, authoring four and editing seven books, in addition to many articles and book chapters, since he moved into the tenure stream four years ago. His works have been published worldwide in more than 20 languages.

Musto has also transformed the world of contemporary scholarship on Marx and Marxism by organizing several major events (in seven countries) that brought together more than 300 international scholars. In particular, the "Marx's *Capital* after 150 Years: Critique and Alternative to Capitalism" conference, held at York, advanced the university's international reputation for research excellence.

Musto has nurtured the careers of many York and international graduate students by improving their research skills, supporting the construction of their professional networks, encouraging submission of peer-reviewed publications, and promoting participation at academic conferences.

**PRESIDENT'S RESEARCH IMPACT
(PRIA) AWARD
2019**



Julia Creet
Department of English, Faculty
of Liberal Arts & Professional
Studies

Julia Creet, Department of English, Faculty of Liberal Arts & Professional Studies, was selected for this Award as a reflection of her research on digital privacy, data mining, genealogy and memory. Creet explores topics that are relevant and pressing in the context of the expansion of genealogical enterprises, such as Ancestry.com and 23andme.com. This research tackles the big questions emerging from these technological developments and makes a vital contribution to our understanding of the implications.

Creet has produced both traditional research outputs, including a forthcoming monograph, called *The Genealogical Sublime*, and edited essay collections, as well as innovative contributions, such as a workshop on genealogy and genetics, and a documentary film, "Datamining the Deceased: Ancestry and the Business of Family," licensed by TVO. More than 350,000 viewers have seen this film to date. The Office of the Privacy Commissioner of Canada, which funded the film's production, called it "one of the best projects we have funded." Creet's research is also informing policy-makers' understandings about regulating this area of technological development.

With research that captures the attention of a wide range of audiences, from scholars to policy-makers to the public, Creet's work has had a significant impact both inside and outside academia and has contributed to York's research culture and reputation.

**PRESIDENT'S RESEARCH
EXCELLENCE (PREA) AWARD
2019**



Deanne Williams

Department of English, Faculty
of Liberal Arts & Professional
Studies

Deanne Williams, Department of English, Faculty of Liberal Arts & Professional Studies, was selected for this Award as a reflection of her outstanding accomplishments in medieval and Shakespeare studies. Williams is the author of several ground-breaking monographs that have had major impact in these fields. Most notable is *Shakespeare and the Performance of Girlhood*, which explores a topic previously overlooked in Shakespeare studies.

Williams' contributions have been widely recognized: She was elected to the Royal Society of Canada, she received the John C. Charles Polanyi Prize in Literature and the Roland H. Bainton Prize for Best Book in Literature and she has secured research grants from the Killam Research Fellowship and the Social Sciences and Humanities Research Council of Canada.

Williams has been a strong contributor to York's intellectual life. She has served on a number of committees in the Department of English and on a Senate Committee, supervised PhD dissertations and served on PhD dissertation committees, as well as taught at the undergraduate level in a creative manner that provides students with experiential learning opportunities.

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Read ***Brainstorm***, a special edition of *YFile*, for compelling stories about the world-leading, policy-relevant work of York's academics and researchers across all disciplines. www.research.info.yorku.ca/brainstorm

Watch the "**2 Minutes, 3 Questions**" video series where York researchers and academics discuss the impact of their work. Available on our YouTube playlist: www.bit.ly/2mPtT8Z

Don't miss the latest **graphic animated whiteboard** about our new **Strategic Research Plan**, existing research strengths and additional areas of research opportunity. Also available on our YouTube playlist: www.bit.ly/2mPtT8Z

