

Dynamic Disruption

2015-16 Year in Review

Ryerson
University

Graduate
Studies



➤ **Ryerson's invitation:** study hard, dream harder.

➤ Pioneering research in an **urban paradise.**

➤ **Big city,** alone. Ryerson becomes home.

➤ Downtown action, loving community, **learning excellence.**

➤ **Downtown campus;** urban laboratory; inspiring events.

➤ I've never wanted to **work harder.**

**Ryerson
University**

**Graduate
Studies**

Kat Williams, Film + Photography
Preservation and Collections Management MA

**Ryerson
University**

**Graduate
Studies**

Marie Faaborg-Andersen, Psychology PhD

**Ryerson
University**

**Graduate
Studies**

Jen Rouse, Psychology PhD

**Ryerson
University**

**Graduate
Studies**

Nande Wright, Molecular Science MSc

**Ryerson
University**

**Graduate
Studies**

Tamara Nahal, Urban Development MPI

**Ryerson
University**

**Graduate
Studies**

Grant Mason, Urban Development MPI

The design of this publication reflects the dynamism of graduate education and the perspectives of our students. The detachable bookmarks and inner pages feature submissions to our GRAD 6-Word contest, in which graduate students distilled their ideas on the best things about being a grad student at Ryerson. The volume of responses and poignancy of sentiments was inspiring, as you can surely see from the sampling we've shared.





Dynamic disruption is about much more than replacing old ideas with new ones. It's about challenging convention, asking critical questions and seeking creative solutions that drive knowledge and practice forward.

It's about asserting thoughtful change that elevates how we learn, work and live. It's a way of thinking, doing and being that informs our values at the Yeates School of Graduate Studies (YSGS). In the pages that follow, we showcase this bold changemaking agenda and its contributions to our status as Canada's most creative, connected and entrepreneurial university for graduate education.

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Message from the Dean

Dr. Jennifer Mactavish
Dean
Yeates School of Graduate Studies

Pushing boundaries that fuel discovery

Dynamic disruption is essential to probing new and complex ideas and pushing boundaries that fuel discovery, ingenuity and creativity. This is the very essence of graduate education, which is brought to life in our programs and the cutting-edge research and creative endeavours of our students and faculty. Graduate students, and graduate education are fundamental to our university and reshaping our understanding of the world.

Our 2015-16 Year in Review also shows that dynamic disruption applies equally well to pursuing our strategic priorities: building a community and culture of inquiry, elevating excellence in graduate education, attracting and retaining outstanding graduate students, and leading academic and administrative supports. Over the past year we have made great strides in these areas by expanding our program offerings, enhancing scholarship and research funding, and engaging our students in unprecedented numbers and in meaningful ways.

GRADCafé is a regular gathering of graduate students dedicated to creating a culture and community that reflects and enriches their experiences at Ryerson. GRADTalks is a series that stimulates conversations about a myriad of topics of interest to students: leadership, entrepreneurship, career opportunities and effective

student-supervisor relationships. The reach of our students extends beyond campus as they actively contribute to important debates on matters that range from critiquing how well our approach to graduate education serves contemporary career trajectories, to sharing ideas about Canada's knowledge needs in the 21st century.

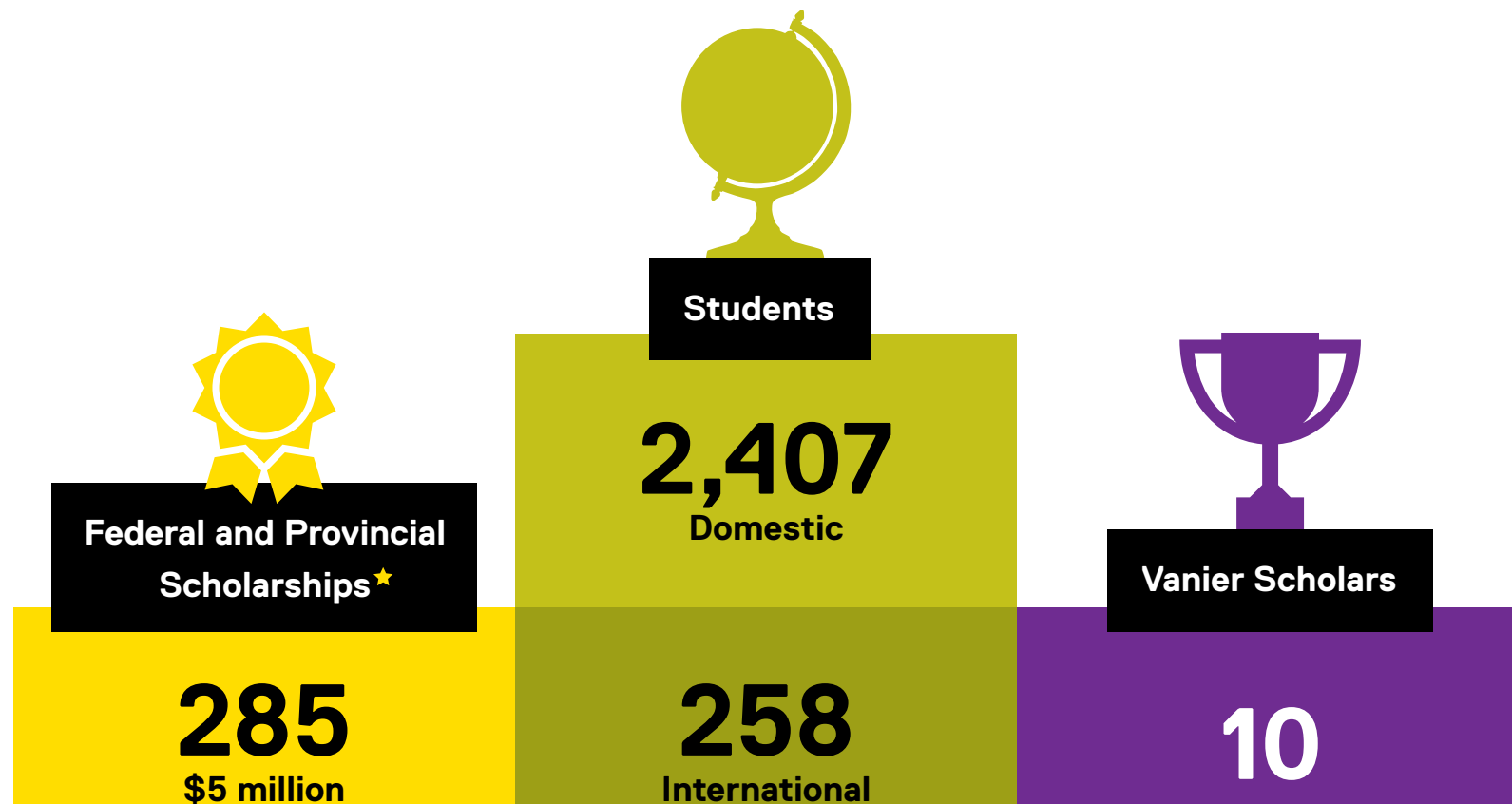
Our guiding vision in all that we do is to foster the conditions and experiences that allow our students and programs to thrive. This is not without challenges in our rapidly evolving and globally interconnected world. Together, we are up for the challenge and we are succeeding. I know this from our programs and their nurturing of the next generation of leaders in the competencies and passion to drive what is needed – be it promoting positive social change, building beautiful and sustainable homes and communities, creating art, telling stories, stimulating the economy – to advance quality of life in Canada and beyond. I see this in our students who graduate equipped with the knowledge, critical thinking skills, communication expertise and creativity to succeed in the many paths they take.

This edition of our Year in Review illustrates what my graduate colleagues and I see and know every day at Ryerson – we are continuing our momentum!



Graduate Studies at a Glance

★ 2014-15 Data





New Programs

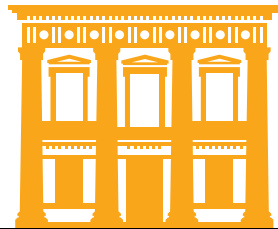
Biomedical Engineering
(MAsc/MEng/PhD)

Child and Youth Care
(MA)

Master of Engineering
Innovation and
Entrepreneurship (MEIE)

Data Science and
Analytics (MSc)

Mathematical Modelling
and Methods (PhD)



Number of Programs

40
Master's

15
PhD

4
Professional
Master's Diplomas



YSGS Members

865



**Distinguished
Visiting Professors**

50



New Programs Respond to Complex Change

Nothing in the world stands still, which is why YSGS is always evolving. Part of that momentum involves ensuring our program offerings are at the leading edge of graduate education. That's why we're introducing five new programs this fall in fields that are newly emerging, fast growing or undergoing significant change. They feature the ideal mix of theory and practice, and opportunities to conduct research on campus and with external partners – a perfect combination to prepare tomorrow's leaders and innovators.

Biomedical Engineering

Collaborating, researching and networking with experts in the field are the highlights of this comprehensive new graduate program. Offered as a master of applied science (MASc), master of engineering (MEng) or doctor of philosophy (PhD), this program lets students tap into Ryerson's leading faculty-based research and work on industry-related projects, all with the guidance of experienced faculty supervisors. Students conduct real-world research with industry partners such as St. Michael's Hospital and the University Health Network. Exciting possibilities after graduation include developing new medical devices, more sophisticated medical equipment and improved biomedical procedures.

Child and Youth Care

The first of its kind in Ontario and the second in Canada, this groundbreaking program delves into the theory and practice of working with children and youth facing adversity. Students learn about trauma-informed care, resilience, life-space intervention, critical and anti-oppressive perspectives, management and policy development. This innovative program features reflective practice, field learning and the integration of social innovation. Graduates become child and youth care leaders who champion services and rights for youth in institutions and community settings.

Data Science and Analytics

This unique interdisciplinary one-year master of science program offers the education needed to excel in the fast-growing field of data science and analytics. Students gain technical and applied knowledge in math, statistics, operations research, programming and domain knowledge through lectures and laboratory sessions. They apply their skills to complex, real-world datasets and data science and analytics problems. Graduates of this program are highly educated, qualified data scientists who pursue careers in industry, government or research.

Engineering Innovation and Entrepreneurship

The first of its kind in Toronto, this master's degree program gives a critical edge to business-minded engineers. Designed for engineering students and industry professionals looking to create a technology-based startup, it features three tracks: biomedical engineering, emerging technology, and energy and sustainable innovation. Students refine their projects from untested ideas into viable businesses, taking their concepts through three distinct phases of customer discovery, validation and acquisition. Graduates have the knowledge, skills and hands-on experience necessary to drive and manage innovation in existing companies or new ventures.

Mathematical Modelling and Methods

Students expand their thinking and expertise in mathematics with this collaborative PhD program that focuses on discrete mathematics and networks, financial mathematics and biomathematics and fluids. A robust network of local industry partners and research institutes provides ample hands-on learning opportunities. Graduates become highly skilled research scientists who can pursue rewarding careers in academia, or can strategically use data for major financial institutions, technology companies and research hospitals.

Engaging Students to Advance Their Success

Ryerson is a place where students come to learn and actively participate in university life. Within YSGS, we provide a diverse range of opportunities for students to share their ideas and insights with peers, guide the direction of the graduate school, and further develop and express their knowledge, skills and talent. These include:

3-Minute Thesis (3MT) Competition

Three minutes. One slide. One chance to distill months of complex, specialized research for a general audience. This opportunity for academic glory happens once a year at 3MT, followed by the provincial and national competitions.

Biomedical Physics master's student **Michael Moore** took home double honours at the 2016 Ryerson 3MT competition. Moore won first place and the people's choice award for his presentation "Listening to the 'seeds' of cancer." His research involves using photoacoustic imaging to develop techniques for the early detection of cancer. In April, Moore won second place at the Ontario 3MT competition and went on to represent Ryerson at the national 3MT competition.

GRAD 6-Word Contest

YSGS invited graduate students to submit a concise, six-word response to the question: What are the best things about being a grad student at Ryerson?

The winners and their responses were:

1. 1st Place: **Jen Rouse**, Psychology PhD, "Big city, alone. Ryerson becomes home."
2. 2nd Place: **Nande Wright**, Molecular Science MSc, "Downtown action, loving community, learning excellence."
3. 3rd Place: **Marie Faaborg-Andersen**, Psychology PhD, "Pioneering research in an urban paradise."
4. Honourable Mention: **Grant Mason**, Urban Development MPL, "I've never wanted to work harder."
5. Honourable Mention: **Kat Williams**, Film + Photography Preservation and Collections Management MA, "Ryerson's invitation: study hard, dream harder."
6. Honourable Mention: **Tamara Nahal**, Urban Development MPL, "Downtown campus; urban laboratory; inspiring events."

These are featured on the inside front cover as detachable bookmarks.

GRAD 60-Second Video Contest

Every graduate student experience is wonderfully unique. That's what we learned when we invited students to capture their journeys as graduate students in 60 seconds.

Congratulations to first-place winner **Lynne Fox**, Documentary Media MFA, for her moving story about how Ryerson provided her with the education, tools and guidance to support her documentary related to her brother's death in the 1989 Hillsborough disaster, a human crush at a soccer game in England in which 96 people were killed and hundreds injured.

Cher Li, Fashion MA, won second place for a whimsical stop-motion animation that creatively shared tidbits of her life at Ryerson as an international student from China. Third-place winner **Dan Browne**, Communication and Culture PhD, shared his academic trajectory at Ryerson from his undergraduate film degree, to his master's and doctoral studies in Communication and Culture.

Honourable mentions were awarded to **Afshin Rahimi**, Aerospace Engineering PhD, **Rebekah Miskin**, Media Production MA, and **Atena Mahiny**, Industrial Engineering MEng.

Imagining Canada's Future

“What knowledge will Canada need to thrive in an interconnected, evolving global landscape?”

This was the big question explored by Ryerson and York University graduate students in Imagining Canada's Future, an exciting national conversation on the future of Canadian society. Funded by the Canadian Association for Graduate Studies and the Social Sciences and Humanities Research Council of Canada, the initiative involved three roundtable discussions with York graduate students about how Canada can thrive and stay competitive in the years ahead.

Documentary Media master's student **Cyrus Sundar Singh** chronicled the process in an impressive 11-minute documentary that captured the students' insights and ideas on topics such as the value of diversity in strengthening graduate education, the intersection of climate change and social policy, using new digital technologies to strengthen communities, and applying innovative thinking to real-world problems.

Dr. Janet Lum and Dr. Lynn Lavallée discuss “Secrets of a Successful Student-Supervisor Relationship” at the fall 2015 GRADTalks panel.



GRADCafé

Grad students continued to provide feedback in shaping their Ryerson experience through two more sessions of GRADCafé. Thirty-four students participated in the visioning and networking events, which explored the question “What is the compelling picture of graduate culture at Ryerson that we have yet to embrace or create?” They expressed a desire for more student interaction, both academically across faculties and socially through grad community events.

GRADTalks

Helping students make the most of their graduate education as they prepare for their careers is the goal of GRADTalks. These discussions feature a diverse range of experts discussing how graduate education contributes to professional success. Past speakers include world-renowned academics, pioneers in industry, and innovators and leaders in government and policy. They inspire and challenge graduate students to consider a wider range of career pathways.

This year's panel discussions centred on two topics of interest to all graduate students. The winter 2016 theme was “Beyond the PhD: Career Pathways for Graduate Success” and was led by Rebecca Dirmfeld, career consultant, Ryerson University; Dr. Jennifer Mactavish, dean, Yeates School of Graduate Studies; Dr. Jennifer Polk, academic, career and life coach, FromPhDtoLife.com; and Dr. Greg Singer, director of research services, OCAD University.

Discussing the fall 2015 topic, “Secrets of a Successful Student-Supervisor Relationship,” were Dr. Michael Kolios, associate dean, research and graduate studies, Faculty of Science; Dr. Sri Krishnan, associate dean, research and development, Faculty of Engineering and Architectural Science; Dr. Lynn Lavallée, chair of the Human Research Ethics Board and associate director, School of Social Work, Faculty of Community Services; Dr. Janet Lum, associate dean, research and graduate studies, Faculty of Arts; and Dr. Kelly MacKay, associate dean, research and graduate programs, Ted Rogers School of Management.



Ryerson 3-Minute Thesis winner Michael Moore

Grad Student Study Space

Learning, idea sharing and collaboration are not confined to classrooms. GRADSpace is a recently refreshed dedicated space for students to work on group projects, complete individual assignments, study or just enjoy some quiet downtime. Spacious, sunlit and featuring ample seating, this facility is also used to host seminars and other events specifically for graduate students. GRADSpace is located at 111 Gerrard St. E. and features two study areas on Level 1.

Graduate students also have dedicated study areas on the seventh floor of the Student Learning Centre (SLC, 341 Yonge St.). The study spaces include a large, silent study room and 30 bookable collaborative and group work rooms.

Counselling

Managing stress, work-life balance and mental health issues are all critically important to excelling in graduate school. To maintain wellness and stay productive, students can access free counselling services at YSGS through the university's Centre for Student Development and Counselling. Counselling intern David McNeill met with more than 25 students to offer mental health information, connections to additional community resources and tools to cope with personal challenges.

“I have learned a huge amount from my experience here and from the students I have met with,” McNeill says. “It was very exciting to be able to grow with them in many ways and I've been really inspired by many stories I have heard.”

Profiles

Visionary in thinking and bold in action, our graduate students, faculty and alumni are advancing their fields and serving society in exciting ways. Here, we present some of the changemakers who exemplify the creative, connected and entrepreneurial spirit of graduate education at Ryerson.



Dr. Samin Eftekhari

Alumna
PhD, Chemical Engineering
Faculty of Engineering and Architectural Science



Revolutionizing orthopedic surgery

Each year, millions of people worldwide suffer from bone injuries requiring surgery, and many need bone grafts or orthopedic implants. Human bone grafts can result in complications that may require additional surgery. Metallic implants, meanwhile, don't match the physical properties of bone, and so may be rejected by the body. As well, metallic implants often need to be removed after doing their job. In both cases, these additional procedures place extra pressure on the health-care system.

Now, an innovation in bone repair is set to make the process easier and more efficient. Chemical Engineering PhD graduate Dr. Samin Eftekhari has developed a novel series of orthopedic implants made out of a synthetic material that mimics the natural properties of bone. Once implanted, the material can also spur the injured bone to regenerate itself; afterwards, the biodegradable implant is safely absorbed by the body. All of this results in more effective bone repair that requires only one surgery.

“These synthetic bone grafts are a much more convenient and less painful option for patients,” Dr. Eftekhari says. “They can save surgeons significant time in the operating room and help hospitals save money. They also make it possible to develop personalized bone grafts with customizable shape, strength and absorption rate.”

Since 2012, Dr. Eftekhari has been testing various manufacturing methods to develop her patented technology by conducting experiments in Ryerson labs. She also performed biocompatibility assessments using stem cells at St. Michael's Hospital, a Ryerson industry partner. All that trial and error eventually yielded a substance that precisely matches the structural, chemical, mechanical, biological and thermal characteristics of bone.

Along the way, Dr. Eftekhari received numerous fellowships and awards valued at more than \$100,000 from Ryerson, including from the Yeates School of Graduate Studies, Slight New Venture competition, Norman Esch Foundation and the Office of the Vice-President, Research and Innovation. The university also supported her when she sought to commercialize her invention by inviting her to incubate her company, Artin Biomed, in its Biomedical Zone, a joint incubator with St. Michael's Hospital for biomedical and health-care ventures.

Dr. Eftekhari is currently in the process of using 3D printing to develop customizable orthopedic implants for craniofacial reconstruction. She is also working to get regulatory approval for these implants in Canada and the U.S.

“Ryerson supported me to step out of academia and into the business world,” Dr. Eftekhari says. “I was not only educated to be an engineer, but also an innovator and entrepreneur.”

“Ryerson supported me to step out of academia and into the business world.”



“Ryerson is providing me with a platform to explore this plant’s potential.”

Higher learning

As the therapeutic benefits of cannabis continue to gain mainstream acceptance, Steve Naraine is among those leading the way to study this little-understood plant.

Naraine is investigating the evolution of seed morphology between hemp and marijuana as a graduate researcher in Dr. Lesley Campbell’s Plant Evolutionary & Ecology Lab. Cannabis is a plant he has been exploring for several years, as a government-regulated grower, medical marijuana industry consultant and, for the last two years, through co-operative research projects with a principal research scientist at Agriculture and Agri-Food Canada. He is now studying the government department’s cannabis seed collection to facilitate his master’s thesis.

“There’s so much we don’t understand about cannabis, because it has been a controlled substance, so a lot of the basic science hasn’t been done,” Naraine says. “Once we understand it better, we can make it into a better medicine.”

Naraine’s own interest in medicinal cannabis arose in 2008, when he was still a medical physics undergraduate at Ryerson. A friend asked if he could help grow more effective medical marijuana for his mother, a cancer patient and prescription holder suffering from extreme nausea and pain caused by chemotherapy. Back then, the law required prescription holders to purchase from the government’s limited,

low-grade varieties, grow it themselves, or designate a grower – which is where Naraine came in. Using scientific experimentation skills he’d learned in class, he was able to cultivate plants containing higher levels of THC, the psychoactive compound that alleviates pain and boosts appetite.

The experience sparked an enduring interest for Naraine that led him to review literature on the plant and talk to growers, patients and doctors. In 2013, while still an undergrad, he shared his research interests with Dr. Campbell, who was encouraging, and together they began a research collaboration with Tweed, a licensed medical marijuana company in Smiths Falls, Ont. Naraine also conducted research for Tweed on cannabis genetics and strain varieties. Funded by the Natural Sciences and Engineering Research Council of Canada, the six-month study focused on how different light sources affect cannabis growth.

Naraine says the plant could be very valuable not only as a pharmaceutical, but for industrial, food production and other purposes, and he’s grateful Ryerson supports his vision.

“The graduate school at Ryerson understands the value of this research and the incredible impact it can have,” Naraine says. “It’s providing me with a platform to further explore this plant and its potential.”

Steve Naraine

MSc, Molecular Science
Faculty of Science





Dr. Anatoliy Gruzd

Faculty member
Ted Rogers School of Management

How private is your social media?

Social media use has grown tremendously in recent years, both in terms of users – now in the billions – and in the number of companies trying to monetize what they see as a goldmine of customer data.

What hasn't kept pace, says Dr. Anatoliy Gruzd, the Canada Research Chair in Social Media Data Stewardship, is research on how industry and academic researchers should handle and use social media data. Many key questions about proper social media data management practices are still unsettled. Currently, he says, stakeholders such as data intermediaries (social media platforms) and data consumers (researchers, policy and decision makers in the private and public sectors) often access and exploit people's posts, shares and likes with little or no input from data producers (social media users).

Dr. Gruzd is trying to change that by launching a new five-year research initiative to develop a new framework that will incorporate the expectations and practices of the three major stakeholders.

“There's a notion that many users, especially younger users, accept that all their activities online will be tracked and analyzed. Is that really true? For which demographic? On which platforms?” says Dr. Gruzd, director of Ryerson's Social Media Lab, the first of its kind in Canada. “We want

to better understand what users expect with regards to how their social media data should and should not be used, and to see those expectations reflected in the data-handling practices of data intermediaries and data consumers.”

As part of this new initiative, Dr. Gruzd and his team will develop a novel personalized online survey instrument that will feature live, publicly available social media data from Facebook, Twitter and other platforms specific to each participant. They will also interview private and public organizations from a broad range of sectors about how they collect, use and share such information. They will ask them about the extent to which they consider users' privacy and their strategies for using this information in ethical ways. He says Ryerson's leadership in supporting digital innovation projects, and its extensive community partners, will greatly help facilitate his research.

“This research will provide stakeholders with a clear framework for collecting and using social media information for market and customer research, and will allow companies to better align their data practices with what works for users.”

“There's a notion that many users accept that their online activities will be tracked. Is that really true?”

“Fashion impacts everything – the economy, society, the environment, gender.”

Delving into fashion’s dark side

Hats laced with mercury. Crinolines catching fire. Dresses dyed in arsenic. These are just a few examples of fashion’s dark past, one that has had dire consequences for its makers and wearers, as revealed in a new book by Dr. Alison Matthews David.

In *Fashion Victims: The Dangers of Dress Past and Present*, Dr. Matthews David chronicles the history of harm resulting from apparel production and traditions throughout the ages, particularly during the industrial age in the fashion centres of Paris, London and New York City. With funding from the federal government’s Social Sciences and Humanities Research Council and Ryerson’s Centre for Labour Management Relations, she researched perilous apparel such as constricting corsets and footwear, combs made of flammable celluloid and louse-infested military uniforms. She also studied how workers and communities were affected by fashion production-related factory fires and pollution.

“I was interested in the idea that we think of clothing as protecting us and expressing our style, but because it comes into contact with our body, it can also cause harm to us,” says Dr. Matthews David, Fashion graduate program director.

Dr. Matthews David’s research involved searching the archives of museums worldwide for surviving apparel from the 18th and 19th centuries. She then collaborated with members of Ryerson’s Physics department to test many of the artifacts for toxicity and radioactivity. The resulting book has attracted both popular and critical praise. Her research also culminated in an exhibition called *Fashion Victims: The Pleasures and Perils of 19th Century Dress* at the Bata Shoe Museum, which also supported her research. Co-curated with Elizabeth Semmelhack, adjunct professor in Ryerson’s School of Fashion and senior curator at the museum, the exhibition features more than 90 artifacts from the museum’s collection.

Dr. Matthews David has given talks on the subject to audiences in New York and London, and appeared with Semmelhack in a special episode of CBC’s drama show *Murdoch Mysteries* that looked at the history of corsets. A strong advocate of research-led teaching, she also weaves her findings into her classroom instruction. She hopes the book advances fashion’s status as an academic discipline with rich and important insights about how we live.

“There is still a misconception that fashion is not a serious area of study, but this scholarship shows that fashion impacts everything – the economy, society, the environment, gender,” says Dr. Matthews David. “It’s a really powerful lens through which to look at the world.”



Dr. Alison Matthews David

Faculty member
Faculty of Communication & Design

Carolyn Ferns

Alumna
MA, Early Childhood Studies
Faculty of Community Services



“Ryerson was good training for the kind of work I’m doing.”

Championing better child care

Ontario has the highest child-care fees of any province. It also has too few licensed spaces – one for every five children. As well, child-care workers face precarious employment and relatively low wages.

If that changes, it will likely be because of the sophisticated and tenacious advocacy of Carolyn Ferns. As head of the non-profit Ontario Coalition for Better Child Care, Ferns is working to make child care more affordable and of higher quality for families, and equitable and viable for early childhood educators. She is doing so by exposing the gaps in Ontario’s system, presenting compelling data on child-care best practices and rallying communities to join the cause.

The coalition’s momentum recently spiked at a public town hall it staged at Ryerson, where more than 170 parents and early childhood educators passionately discussed controversial aspects of the provincial government’s recently proposed child-care regulations, which in part would group children as young as 12 months – instead of the current 18 months – with toddlers. The coalition is concerned this earlier transition could affect children’s well-being and safety, unfairly increase the workload of childhood educators and add significant renovation costs for daycare operators. The event was complemented by the coalition’s submission to the government, petition, letter-to-your-MPP template and social media campaign.

One of the coalition’s biggest advocacy initiatives came last spring, when it partnered with other child-care advocacy groups across Canada on a week of action to make child care a federal election issue. Last fall, the coalition partnered with the Association of Early Childhood Educators Ontario to organize regional conferences for community members to collectively solve child-care issues. Throughout these endeavours, Ferns has collaborated with early childhood educators, child development experts, policy-makers and journalists, a key skill she developed at graduate school.

“Something I really appreciated at Ryerson was the chance to work with people from different academic disciplines,” says Ferns, who also earned her bachelor’s in Early Childhood Education at Ryerson. “It was good training for the kind of work I’m doing, because I have to be able to reach out to many different people.”

Last September, the group published *Child Care Matters to Everyone: A Snapshot of Child Care in Ontario*, a report that blends current data with personal narratives to powerfully illustrate the system’s flaws. She hopes the document, and her overall advocacy, demonstrate the value of child care as a public good that deserves better planning.

“There’s lots of evidence that affordable child care is a community economic driver,” Ferns says. “I see the benefits as including better work-family balance, mobilizing mothers in the workforce and building good jobs for child-care workers.”

Promoting mental health among indigenous youth

In Canada, First Nations youth are generally up to six times more likely to commit suicide than non-indigenous youth.

It's a grim statistic about life for many aboriginal people in Canada, and may demonstrate that mainstream approaches to sharing information about mental illness and coping strategies don't effectively serve this population. That's what Dr. Caitlin Davey, who herself identifies as First Nations, set out to explore for her dissertation: whether a more culturally sensitive approach to communicating about mental health would be helpful.

"The Western definition of mental health doesn't quite align with our world view, and doesn't fit with how I and many other indigenous people understand it," Dr. Davey says. "I wanted to understand how mental health is viewed by indigenous people, since it is often understood from a trauma-informed perspective."

Dr. Davey is referring to the intergenerational trauma caused by the historical colonization and forced assimilation of indigenous people in Canada, which has led to stigma, isolation, identity crisis and disconnection from their culture. These issues are interconnected with the social adversities commonly experienced by aboriginal people in Canada in areas such as housing, employment, health and education, all of which can negatively impact mental well-being. Dr. Davey examined how different methods for communicating mental health knowledge to

indigenous students might improve their educational attainment rates, as this can help strengthen indigenous communities in Canada.

For her research, Dr. Davey asked students and staff affiliated with Ryerson Aboriginal Student Services (RASS) to advise on the content, delivery method and facilitator of an indigenous-relevant mental health knowledge translation activity. The participants then took part in the activity, which was facilitated by an indigenous elder and involved indigenous traditions such as sharing problems orally in a group and healing ceremonies. Pre- and post-activity interviews and focus groups showed that the activity helped students better understand mental illness and related self-care strategies.

Dr. Davey says key to her progress was the mentoring and encouragement she received from her supervisor, Dr. Kelly McShane and the RASS team. Since she completed her PhD last October, Dr. Davey has been working as a psychologist under supervision in private practice and at the Six Nations of the Grand River reserve near Brantford, Ont. She hopes her research spurs the introduction of cultural competency training for mainstream mental health service providers so that indigenous people can receive better care.

"There needs to be more awareness of who indigenous people in Canada are, what the issues are and how to provide the most effective care."

“The Western definition of mental health doesn't quite align with the indigenous world view.”

Dr. Caitlin Davey

Alumna
PhD, Psychology
Faculty of Arts





Celebrating Student Success

YSGS celebrates the winners of the 2015-16 GRAD Contests. Back row, from left: Dr. Anthony Bonato, YSGS associate dean, students and programs; Afshin Rahimi, Aerospace Engineering PhD; Dan Browne, Communication and Culture PhD; Atena Mahiny, Industrial Engineering MEng; Grant Mason, Urban Development MPI; and Dr. Jennifer Mactavish, YSGS dean. Front row, from left: Lynne Fox, Documentary Media MFA, and Psychology PhD students Marie Faaborg-Andersen and Jen Rouse.

Supporting students to build on their talents, develop their knowledge and skills and be successful in their endeavours drives everything we do at YSGS. As a result, our high-achieving students, some of whom are highlighted here, are making important contributions to every aspect of society.



For her award-winning research that has been making waves in the area of sustainable water use and reusability, **Dr. Amira Abdelrasoul** (PhD, Chemical Engineering, Faculty of Engineering and Architectural Science) was awarded the Governor General's Gold Medal and the C. Ravi Ravindran Outstanding Doctoral Thesis Award. Her most significant achievement was developing a novel mathematical model that allowed her to improve the ultrafiltration process of latex products such as paint by reducing contamination of the membrane filter. Her innovation was recognized with the 2015 Membrane Technology Conference Award from the American Membrane Technology Association and the American Water Works Association.

Daniel Liadsky (MSA, Department of Geography, Faculty of Arts) made valuable contributions to advancing food security initiatives for disadvantaged populations in the Greater Toronto Area, both as an academic and as a professional. He collaborated with the Canadian Urban Institute on projects related to food banks and neighbourhood populations. A gifted researcher and social scientist with advanced analytical and writing skills, he produced a PhD-level journal manuscript for his master's research paper, which will be submitted to a referred academic journal. As well, Liadsky's academic performance was outstanding – within his program, he had the highest entrance grade point average and the highest cumulative grade point average.



For being an effective and dedicated leader within her program and in the graduate school at large, **Michèle Pearson Clarke** (MFA, Documentary Media, Faculty of Communication & Design) was awarded the Board of Governors Leadership Award and Medal and a Ryerson Gold Medal. Clarke served as the representative for her class on the Graduate Program Council. She also played a key role in planning, executing and marketing the graduate school's Doc Now documentary film festival. As well, she represented Ryerson and her community in national and international film screenings, exhibitions and conferences. In her artistic installations, films and books, she furthered the ideal of a just society in which all people are treated with respect and dignity.



In recognition of her valuable research accomplishments and her productive engagement with community partners, **Dr. Victoria Fast** (PhD, Environmental Applied Science and Management, Yeates School of Graduate Studies) was awarded the Ryerson Gold Medal. Dr. Fast made a foundational contribution to research on volunteered geographic information systems. She also developed extensive relationships with professional organizations in her hometown of Oshawa, Ont. by volunteering as chair of the Oshawa Environmental Advisory Committee, as a member of the board of directors of the Clean Air Partnership, as a member of the Durham Food Policy Council and for various other government and non-profit bodies. Dr. Fast also became Durham Region's go-to person for guidance on community adaptation to climate change.

Adam Mattinson (MPI, Urban Development, Faculty of Community Services) was awarded the Ryerson Gold Medal for showing tremendous leadership and vision in the classroom, in the university and in his contributions to the urban planning profession, both in Ontario and in his home province of British Columbia. As president of the Ryerson Planning Graduate Student Association, he introduced numerous new graduate student program activities, helped strengthen the culture of student engagement and built lasting bonds with the Ryerson University Alumni Association. He also completed important research that will help advance the profession. Mattinson is also recognized for having achieved a cumulative grade point average of 4.07.



For his outstanding achievements as a researcher and course instructor at Ryerson University and as a leader in the profession, **Dr. Anthony Lombardi** (PhD, Mechanical Engineering, Faculty of Engineering and Architectural Science) received the Ryerson Gold Medal. His award-winning research on engine blocks has directly led the automotive sector to achieve cost reduction, improved efficiency and reduced emissions. He is the first Canadian to serve as a student board member of the American Society of Materials International, the world's largest materials society, and last fall, he received the society's 2015 Best Student Paper Award. He also served on the organizing committee of the CAE-INAE Clean Coal Technology Conference. Dr. Lombardi managed all of these activities while maintaining a 4.26 cumulative grade point average.



Ilia Maor, right, with Dr. Steven Murphy, Ted Rogers School of Management dean

A high-achieving student who has actively contributed to the vitality of the university, **Jill Padgett** (MSc, Applied Mathematics, Faculty of Science) was awarded the Ryerson Gold Medal. Academically, Padgett is in the top two per cent of all graduate students in the department since its inception. She made outstanding contributions to the field of computational biology. Her thesis was presented at top conferences and submitted to a leading journal in the field. She volunteered as the student representative for the PhD program site visit in the department and at the university's Science Rendezvous public outreach event. Additionally, she promoted graduate research and programs to the professional community and mentored other students at Ryerson.



A star student who epitomizes excellence, leadership and commitment to his community, **Ilia Maor** (MBA, Ted Rogers School of Management) was awarded a Ryerson Gold Medal. He competed in nine national and international case competitions, including the prestigious Economist case competition, and earned many victories for the Ryerson MBA team. He played a pivotal role in founding the university's Net Impact chapter, through which he and his peers volunteered for a Centre for Addiction and Mental Health client well-being project. Maor was also involved in the MBA Student Association, through which he served as a judge for undergraduate student case training.

For her remarkable skill and stellar success in women's basketball, **Keneca Pingue-Giles** (MA, Public Policy and Administration, Faculty of Arts) was recognized as Canadian Interuniversity Sport's Nan Copp Player of the Year for 2015-16. Pingue-Giles is the first Ryerson female student-athlete to win the award and the first Ryerson female in any sport to be selected as a CIS Most Valuable Player. Her talent and competitiveness on the basketball court helped the Ryerson Rams achieve their first OUA championship banner and national CIS silver medal. She is currently third on the all-time Ryerson list for scoring and assists, fifth for rebounds and second for steals.

Pingue-Giles also received a Dennis Mock Student Leadership Award, which recognizes graduating students who have made outstanding extracurricular contributions to their school, program or Ryerson as a whole.

Other recipients include: **Ciro Bustillo Lecompte**, Environmental and Applied Science Management MAsc, **Jen Rouse**, Psychology PhD, **Nicole Sugden**, Psychology MA, **Nadjibullah Alamyar**, Immigration and Settlement Studies MA.



Keneca Pingue-Giles

Supporting Our Students

Behind every great institution are talented, passionate and innovative people who care about that institution's success. That's true for Ryerson and for YSGS, where our team's strong commitment to excellence helps us achieve relevant and meaningful academic offerings, boundary-pushing scholarly, research and creative activity and a welcoming, interactive learning environment. We'd like to thank the following faculty and staff for their exceptional contributions to supporting our students and strengthening our school.

Faculty

The YSGS Outstanding Contribution to Graduate Education Award is a tribute to the ability of our faculty members to truly act in the best interests of their students.

Dr. Kimberly Bates, MBA, supports all 120 incoming MBA students in preparing their study plans, which sets the foundation for their success in the program. She mentors them for the Hult Prize international case competition in social entrepreneurship, supervises the major research paper work of approximately 10 students each year and works with students to develop journal articles based on their research. To encourage diversity awareness, she is the faculty advisor for the MBA Women in Leadership Association, for which she assists with organizing speaking and fundraising events. She is also the faculty advisor for TRSM's chapter of Net Impact, an international organization that encourages students to pursue projects in corporate social responsibility. Dr. Bates frequently coaches students in interview skills, has secured several executives-in-residence from top firms to serve as mentors and arranges collaboration through Ryerson's various zones, and through Mitacs, a national non-profit organization that delivers research and training programs.

Dr. Gerda Cammaer, Documentary Media, is an exceptionally committed individual who has distinguished herself as a teacher in several of Ryerson's graduate programs. Her express goal in teaching film is to mesh practice and theory, and to provide a firm intellectual foundation for students to "go beyond the box." Her success is reflected in the high number of students receiving awards or nominations for their achievements. Besides developing her own courses, she has served on several curriculum committees, including the Film + Photography Preservation and Collections Management program, and the forthcoming Integrated Digital undergraduate program. She has played a significant role in graduate supervision, serving since 2009 on 35 thesis committees. A tireless advocate and mentor for her students, she has organized annual graduate exhibitions and film screenings and helped students make connections with the Toronto International Film Festival.

Dr. Farhad Ein-Mozaffari, Chemical Engineering, supervised or co-supervised 13 PhD and 23 MASC students who have taken on positions requiring highly desired skills. Under his supervision, these students have authored five book chapters, 66 refereed journal papers and 98 conference papers. His students have received prestigious awards and opportunities such as the Ryerson Gold Medal, the Natural Sciences and Engineering Research Council of Canada (NSERC) Postdoctoral Fellowship, the NSERC Industrial Research and Development Fellowship, the NSERC Postgraduate Scholarship and the Ontario Graduate Scholarship. As director of the graduate program and chair of the Graduate Programs Council, Dr. Ein-Mozaffari has made outstanding contributions to the enhancement of graduate programs.

Dr. Michael Kolios, Biomedical Physics, is an exemplary mentor who is thoroughly dedicated to improving graduate education and ensuring student success. A highly respected, world-renowned researcher, Dr. Kolios has built one of the largest and most productive research groups at Ryerson with 30 active members and more than \$7 million in funding. His graduate students have won various accolades including teaching, research and presentation awards, Ontario Graduate Scholarships, NSERC scholarships and Vanier Canada Graduate Scholarships. Dr. Kolios, who currently serves as associate dean of science, research and graduate studies for the Faculty of Science, was instrumental in building the graduate and undergraduate programs in the Department of Physics.

Dr. Judy Paisley, Nutrition Communication, demonstrated exemplary leadership in the School of Nutrition's graduate programs. Through her bold vision, meticulous planning and competent execution, she helped enhance the Nutrition Communication MHSc program, and launch an innovative professional master's diploma in Dietetics in partnership with St. Michael's Hospital and North York General Hospital. By engaging registered dietitians from more than 100 organizations in various aspects of the nutrition graduate programs, she is establishing a collaborative community of practice within the dietetic profession. Highly responsive to the professional and academic needs of students, Dr. Paisley excels at empowering them to become confident, self-directed professionals through her superior mentorship and progressive teaching skills. She persistently strives for quality and excellence in the nutrition graduate programs because she believes her students deserve the best.

Dr. Vappu Tyyskä, Immigration and Settlement Studies, has for more than a decade been central to the success of Ryerson's unique interdisciplinary Immigration and Settlement Studies (ISS) master's program. As graduate program director, professor, scholar and mentor, she has made a remarkable contribution to student achievement and program reputation. Her trademark leadership qualities are vision, determination, caring and dedication. She sets high goals for students and inspires them to succeed. She networks widely to secure the resources required for students and faculty to thrive. Hundreds of ISS alumni are beneficiaries, in careers and ongoing studies, of Dr. Tyyskä's outstanding contribution to graduate education at Ryerson.



From left: YSGS Dean Dr. Jennifer Mactavish with YSGS Outstanding Contribution to Graduate Education Award recipients Dr. Kim Bates, Dr. Lixia Yang, Dr. Farhad Ein-Mozaffari, Dr. Judy Paisley, Dr. Vappu Tyyskä and Dr. Gerda Cammaer. Not pictured: Dr. Michael Kolios.

Dr. Lixia Yang, Psychology, is driven by her passion for research and teaching and strives high in graduate student education and training. Dr. Yang has a solid record of research, much of which has been funded by NSERC and the Canadian Institutes of Health Research. She has been working extremely hard to provide professional training to her students to best facilitate their growth in scholarship, teaching and knowledge exchange activities. Dr. Yang is a great role model for rigorous scientific research practice and a supportive mentor for graduate students. As a testimony of her effective graduate education, her students have demonstrated great success in all aspects of professional development, as evidenced by the prestigious awards and funding they received, as well as their active engagement in knowledge exchange activities. Under her supervision, students in her Cognitive Aging Laboratory have made a mark in the local community with a dedication to promote active aging.

Staff

For her critical role in promoting the re-inclusion of athletes with intellectual impairments into the Paralympic program, **Dr. Jennifer Mactavish**, dean of the Yeates School of Graduate Studies, received the International Paralympic Committee's 2015 Paralympic Scientific Award. The award is given biennially to an academic researcher for contributions to research in the field of sports for persons with an impairment. At the Sydney 2000 Paralympic Games, it was discovered that some participating athletes were ineligible to compete. This led to intellectually impaired athletes being prohibited from playing until a better eligibility system was developed. Dr. Mactavish's work in the international sporting community for athletes with an intellectual impairment provided the framework for research that eventually led to the re-inclusion of athletes with intellectual impairment in the Paralympic Games.



Leslie Mutic, graduate student engagement officer, played a critical role in supporting graduate education at Ryerson. Leslie led highly successful initiatives such as the ongoing Future Smart program, 3-Minute Thesis and GRADTalks events. Despite poor weather, the winter GRADTalks panel on career pathways for grad students had record attendance.

“Thank you, Leslie, for working so hard behind the scenes of key graduate community events such as 3MT and GRADTalks,” said Dr. Janet Lum, professor and associate dean, research and graduate studies, Faculty of Arts. “Your attention to detail makes these events run smoothly, professionally and fun for graduate students and faculty. It’s time for you to take centre stage!”



Gino Guercio, graduate funding assistant, was invaluable in processing payments in a timely manner and serving as a reliable point of contact for the university. This year, gregarious Gino began overseeing the doctoral completion award in addition to the graduate travel fund and various other responsibilities.

“Gino is the unsung hero to all graduate program administrators,” said Sonya Taccone, program administrator, Master of Digital Media. “He assists us greatly with the processing of scholarships and awards and ensures we have important current information on awards such as SSHRC, NSERC and CIHR. His focus is on providing the best service he can for students, which extends to everyone he works with to ensure this goal is met.”

Last summer, **Patrick O’Donoghue** left his role as administrative coordinator in the dean’s office to pursue full-time studies in social work. YSGS thanks Patrick for his years of service and welcomes him back on a part-time basis.

Program Contacts

Graduate Program Directors

Aerospace Engineering

Dr. Jeffrey Yokota

PhD, Mechanical and Aerospace Engineering,
Cornell University

Research areas: aerodynamics, propulsion and
mathematical fluid dynamics

yyokota@ryerson.ca

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Architecture

Dr. John Cirka

PhD, Media and Communication,
European Graduate School

Research areas: design research, emergent form,
geometric and parametric relations, fabrication
methods, temporal dimensions of architecture

jjcirka@ryerson.ca

416-979-5000, ext. 6491

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Biomedical Engineering

Dr. Stephen Waldman

PhD, Mechanical Engineering, Dalhousie University

Research areas: in-vitro development of functional
soft connective tissue, mechanical stimulation of cells
and mechanical conditioning of the developed tissue,
perfusion bioreactors for tissue engineering, influence
of nutrient delivery and supply on tissue formation

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ryerson.ca/feas/programs/graduate/biomedical

Biomedical Physics

Dr. Carl Kumaradas

PhD, Medical Biophysics, University of Toronto

Research areas: medical physics, thermal therapy, nano-
technology, bio-photonics, computational modelling

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physics.ryerson.ca/graduate

Building Science

Dr. Mark Gorgolewski (interim)

PhD, Architecture and Energy Efficiency,
Oxford Brookes University

Research areas: sustainable design, urban agriculture
and its impact on urban design and building design,
resource efficiency, building performance

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Chemical Engineering

Dr. Farhad Ein-Mozaffari

PhD, Chemical Engineering,
University of British Columbia

Research areas: mixing of fluids with complex
rheology, flow visualization (tomography and ultrasonic
velocimetry), multiphase-flow operations, computational
fluid dynamics (CFD), non-Newtonian fluid flow,
dynamic modelling and identification, powder blending,
discrete element method (DEM), CFD-DEM coupling

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Child and Youth Care

Dr. Kiaras Gharabaghi

PhD, Political Science, Dalhousie University

Research areas: youth homelessness and inter-sectoral
collaboration and service integration, educational
performance of youth in care, residential care, social
pedagogy and youth entrepreneurship

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Civil Engineering

Dr. Ahmed El-Rabbany

PhD, Satellite Positioning, University of New Brunswick

Research areas: satellite positioning and navigation,
integrated navigation systems and hydrographic surveying

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Communication and Culture

Dr. Paul Moore

PhD, Sociology, York University

Research areas: media history, communications theory,
urban studies

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Computer Networks

Dr. Bobby Ma

PhD, Electrical Engineering, University of Waterloo

Research areas: network protocols, software-defined
networking

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Computer Science

Dr. Alex Ferworn

PhD, Systems Design Engineering, University of Waterloo

Research areas: computational public safety in relation to Urban Search and Rescue (USAR) and Chemical Biological Radiological Nuclear Explosive (CBRNE) response, disaster management technology, mobile robotic systems, algorithms

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Data Science and Analytics

Dr. Ayse Bener

PhD, Information Systems, London School of Economics

Research areas: big data in the domains of software analytics, health sciences, green analytics

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Digital Media

Dr. Art Blake (interim)

PhD, History, American University, Washington, D.C.

Research areas: U.S. 20th century urban and cultural history and sound studies

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Documentary Media

Katy McCormick

MFA, Fine Arts, School of The Art Institute of Chicago

Research areas: commemorative sites, atomic bomb narratives and social histories of landscapes

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Economics (PhD)

Dr. Halis Yildiz

PhD, Economics, Southern Methodist University

Research areas: international trade, industrial organization, economic development

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Early Childhood Studies

Dr. Mehrunnisa Ahmad Ali

PhD, Teaching, Curriculum and Social Policy, Michigan State University

Research areas: newcomer children, youth and families, parent-teacher relations, and preparation of teachers to work with diverse populations

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Electrical and Computer Engineering

Dr. Amirnaser Yazdani

PhD, Electrical Engineering, University of Toronto

Research areas: modelling and control of high-power electronic converter systems, application of power electronics in power systems, grid integration of electronically interfaced distributed generation and energy storage systems, microgrids and active distribution systems and renewable energy systems

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Environmental Applied Science and Management

Dr. Cory Searcy

PhD, Mechanical Engineering, University of Alberta

Research areas: corporate sustainability, corporate social responsibility, environmental management systems, integrated management systems, sustainable supply chain management, corporate performance measurement, life cycle assessment

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Fashion

Dr. Alison Matthews David

PhD, Art History, Stanford University

Research areas: material culture, class and gender in the long 19th century, clothing and health, clothing and criminality, war, uniforms and fashion, fashion curation

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Film + Photography Preservation and Collections Management

Marta Braun

MA, Media Studies, State University of New York

Research areas: late 19th-century motion photography, early cinema

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Immigration and Settlement Studies

Dr. Vappu Tyyskä (outgoing)

PhD, Sociology, University of Toronto

Research areas: immigrant families, gender, youth, social policy

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International Economics and Finance

Dr. Halis Yildiz

PhD, Economics, Southern Methodist University

Research areas: international trade, industrial organization, economic development

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Journalism**Bill Reynolds**

MA, Philosophy, University of Waterloo

Research area: literary journalism

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Literatures of Modernity**Dr. Dennis Denisoff**

PhD, English, McGill University

Research areas: Victorian literature, art and culture, decadence and aestheticism, paganism, environmentalism, gender/sexuality studies and digital humanities

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ryerson.ca/english/programs/english-ma

Master of Business Administration and MBA in Management of Technology and Innovation**Dr. Kimberly Bates**

PhD, Operations and Management Science, University of Minnesota

Research areas: manufacturing innovation, governance, institutional theory, resource theory

kimbates@ryerson.ca

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Master of Engineering Innovation and Entrepreneurship**Dr. Yaser Dahman**

PhD, Chemical Engineering, Western University

Research areas: biosynthesis and testing of nanomaterials for biotechnology and biomedical applications, bioseparations and primary recovery of high-value biopolymers using nanofibers affinity membranes, design of airlift bioreactors for biosynthesis and bioseparation purposes

ydahman@ryerson.ca

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Master of Science in Management**Dr. Kelly MacKay**

PhD, Leisure Studies, University of Illinois

Research areas: destination image, special interest and community tourism, information technology and tourism

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Mathematics**Dr. Silvana Ilie**

PhD, Applied Mathematics, Western University

Research areas: Computational biology, development and analysis of simulation methods for biochemical systems, numerical methods, analysis and computation

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Mechanical and Industrial Engineering**Dr. Ahmad Ghasempoor**

PhD, Mechanical Engineering, Queen's University

Research areas: intelligent manufacturing systems, tool-wear monitoring systems, optimization of machining processes

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Media Production**James Nadler**

LLB, Western University

MBA, Insead

Research areas: dramatic writing, animation, creative leadership and collaboration in media production

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Molecular Science**Dr. Michael Arts**

PhD, Zoology, University of Toronto

Research areas: roles of essential fatty acids in maintaining the health/vitality of aquatic organisms, use of lipids and other biochemical tracers to explain how food webs function under different levels of natural and anthropogenic stress

michael.arts@ryerson.ca

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ryerson.ca/graduate/programs/molecular_science

Nursing**Dr. Karen Spalding**

PhD, Health Policy, Management and Evaluation, University of Toronto

Research areas: role of government in health care, consequences of health system changes, delivery and organization of pediatric home care

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Nutrition Communication**Dr. Judy Paisley, RD**

PhD, Community Nutrition, University of Guelph

Research areas: preceptoring practices in health professions, online nutrition communication

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Philosophy**Dr. Glenn Parsons**

PhD, Philosophy, University of Alberta

Research areas: aesthetics, philosophy of science, metaphysics

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Policy Studies

Dr. Tuna Baskoy

PhD, Political Science, York University

Research areas: business competition and governance in post-Keynesian economics, information and communication technologies and e-governance, policy capacity, European integration

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Professional Communication

Dr. Wendy Freeman (outgoing)

PhD, Education, University of Toronto

Research areas: use of technology to improve learning environments, sociotechnical and sociocultural theories

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Psychology

Dr. Julia Spaniol

PhD, Cognitive Psychology, University of North Carolina

Research areas: cognitive aging, memory and decision making, motivation and reward

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Public Policy and Administration

Dr. Duncan MacLellan

PhD, Educational Administration, University of Toronto

Research areas: local and provincial educational politics and policy making, state and teacher relations, local and urban governance issues

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Social Work

Dr. Jennifer Poole

PhD, Public Health, University of Toronto

Research areas: madness, “health” and “mental health,” taking up philosophical, practice and policy concerns

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Spatial Analysis

Dr. Lu Wang

PhD, Economic Geography, York University

Research areas: GIS and consumption analysis, GIS and health, spatial accessibility modelling and visualization, geostatistics, immigration and settlement, retail internationalization

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Urban Development

Nina-Marie Lister

MSc, Planning, University of Toronto

Research areas: landscape ecology, ecological design, landscape infrastructure, planning and design for resilience, urban waterfronts, parks and natural heritage planning, biodiversity conservation

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Associate Deans with Graduate Responsibilities

Faculty of Arts

Dr. Janet Lum

PhD, Social and Political Thought, York University

Research areas: home and community care for older people and people with disabilities, supportive housing, health human resources, health policy, equity and human rights

Faculty of Communication & Design

Dr. Blake Fitzpatrick (interim)

PhD, Ontario Institute for Studies in Education, University of Toronto

Research areas: photographic representation of the nuclear era, visual responses to contemporary militarism and post-Cold War history, memory and mobility of the Berlin Wall

Faculty of Community Services

Dr. Pamela Robinson

PhD, Environmental Geography, University of Toronto

Research areas: urban sustainability, environmental design, environmental planning, urban governance, public engagement and progressive pedagogy

Faculty of Engineering and Architectural Science

Dr. Miljana Horvat (interim)

PhD, Building Engineering, Concordia University

Research areas: solar energy and architecture, advanced energy-efficient facades, sustainability

Faculty of Science

Dr. Michael Kolios

PhD, Medical Physics, University of Toronto

Research areas: ultrasound imaging, acoustic microscopy, optoacoustic imaging, optoacoustic microscopy, use of microbubbles for imaging and therapy, bioheat transfer, hyperthermia, thermal therapies, optical coherence tomography applications

Ted Rogers School of Management

Dr. Kelly MacKay

PhD, Leisure Studies, University of Illinois

Research areas: destination image, special interest and community tourism, information technology and tourism

Looking Ahead



Dynamic disruption is a metaphor for how we approach graduate education at Ryerson University. In our rapidly changing, globally interconnected world, it's critical for us to stay ahead of the curve by equipping students with the knowledge and creative know-how to solve pressing issues today and into the future. It's a nimble mindset that optimizes how we engage students and promote their success.

Fostering outstanding students and programs is our focus and the engine that drives our approach to graduate education at Ryerson. It also includes supporting progressive scholarly, research and creative activities and expanding our program offerings so our graduates can advance society, industry and government, both in Canada and internationally. These forward-thinking priorities have the capacity to

disrupt old models of research, teaching, learning and creative work, in ways that enable our graduates to make positive and lasting impacts in their fields.

As set out in our strategic plan, we will strive continuously in the coming years to achieve excellence in program quality and student experience, and in doing so further the aspirations of our students, university and broader community. We will redouble opportunities for students to grow and excel, to translate knowledge into action and to push the boundaries of their academic, professional and creative endeavours. By empowering our students and championing the importance of graduate education, we are well-positioned to promote transformative change in our nation and around the world.



Still from *Imagining Canada's Future* video by Cyrus Sundar Singh, Documentary Media MFA



New worlds.

Cultivating knowledge. Bright future.

Jason Spence, Professional Communication MPC

Kevin Van Paassen: Cover, Dr. Samin Eftekhari, Steve Naraine, Dr. Alison Matthews David and Dr. Caitlin Davey photos. Mark Blinch: Dean, Dr. Anatoliy Gruzd, Carolyn Ferns and additional photos. Pam Lostracco: Design

Graduate education is a collaborative responsibility between YSGS and the Faculty of Arts, Faculty of Communication & Design, Faculty of Community Services, Faculty of Engineering and Architectural Science, Faculty of Science and Ted Rogers School of Management.

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