McMaster University recognizes and acknowledges that we meet today on the traditional territories of the Mississauga and Haudenosaunee nations and within the lands protected by the *Dish With One Spoon* wampum agreement.
THE RITUALS OF CONVOCATION

The procession of the graduands in plain black gowns and of faculty and officers of the University in colourful and varied regalia; the blue-robed Bedel with his ornate silver Mace; the conferring of degrees by the Chancellor; these are among the rituals of Convocation that stand in a tradition that has a history of more than 700 years.

The University’s Mace is carried to and from the Convocation platform by the University Bedel and during the ceremony is splendidly displayed on the Mace Table, resting on a velvet cushion. The cushion is maroon with a piping of grey, the McMaster colours. The Mace symbolizes the authority of the University Senate to confer degrees, this authority being exercised by the Chancellor.

Bedels were functionaries and maces were weapons hundreds of years before universities emerged in the 12th and 13th centuries. So it is that McMaster’s Bedel carries the University Mace directly in front of the Chancellor, symbolically to protect her.

The Chancellor sits on a massive oak ceremonial chair that bears a carved representation of an early version of the University Seal. She requests that members of the graduating classes rise from their seats and then admits them to their respective degrees. The graduating classes are then invited to join the Chancellor on stage. Once a graduate’s name is called, they are hooded facing the audience, and then are congratulated and welcomed to the community of scholars by the Chancellor and President.

The academic hood is symbolic of admission to a university degree and carries colours specific to a particular degree. It is derived from clothing worn in medieval times, when a hood was similar to that of a modern parka and served the same purpose of protection in inclement weather. The hood that the Registrar or pro-Registrar deftly puts over a graduand’s head is a link to the dress of students of at least seven centuries ago.

The backdrop to the Convocation platform displays McMaster’s Coat of Arms. The symbol of the stag and tree, constituting the crest of these Arms, was the personal emblem of Senator William McMaster, whose munificent benefaction made possible the founding of the University in 1887. Handcrafted by Dorothy Gregson and Margaret Wallace, this banner celebrated 30 years of service at McMaster Convocation ceremonies in 2014.

The President of the University attends Convocation but it is the Chancellor, the titular head of the University, who presides over this ancient ceremonial. Her seniority is indicated by her robe being more elegant than the President’s. The President relieves the Chancellor of making announcements, may present an honorary graduand for his or her degree and, as Vice-Chancellor, confers degrees when the Chancellor is unable to do so.

A Chancellor, Vice-Chancellor, Bedel and Registrar share with a seal, mace, colours, robes and coat of arms a history of hundreds of years of association with universities. Each of these traditional inheritances is a part of McMaster University and all of them come together on the platform of its Convocations.

McMASTER UNIVERSITY:
CHANCELLORS
1887 – 1890 Malcolm Mac Vicar
1892 – 1895 Theodore H. Rand
1895 – 1905 Oates C. S. Wallace
1905 – 1911 Alexander C. McKay
1911 – 1922 Abraham L. McCrimmon
1922 – 1941 Howard P. Whidden
1941 – 1950 George P. Gilmour
1950 – 1955 E. Carey Fox
1955 – 1960 Roy L. Kellock
1960 – 1965 Charles P. Fell
1965 – 1971 D. Argue C. Martin
1971 – 1977 Lawrence T. Pennell
1977 – 1986 H. Allan B. Leal
1998 – 2007 Melvin M. Hawkridge
2007 – 2013 Lynton R. Wilson
2013 – 2019 Suzanne B. Labarge
2019 – Santee Smith / Tekaronhiáhkwa

PRESIDENTS
1949 – 1961 George P. Gilmour
1961 – 1972 Henry G. Thode
1980 – 1990 Alvin A. Lee
1995 – 2010 Peter J. George
2010 – 2019 Patrick Deane
PRESIDENT’S MESSAGE

Convocation is an exciting time in the calendar of any university; a time to celebrate achievement, to reflect on the past, and to anticipate the future and the path that lies ahead. It also represents a time of liberation and change, the ending of one phase of life and the beginning of another.

While a student at McMaster you will have learned, I hope, the importance of collaboration and partnership, and will have come to understand that the future well-being, prosperity and cultural vitality of our society depends upon our ability to cooperate, to act together, and to learn from one another. My fervent hope is that as graduating students you will see your convocation not as an end of growing together, but rather as an opportunity for deepening that process. As alumni you will have many opportunities to renew existing partnerships, and will be well prepared to forge new ones in the greater community beyond our own.

As you prepare to move onto the next exciting chapter of your lives, I am delighted to be able to celebrate your success with you. I wish you all great joy and personal fulfilment as you begin the next phase, whatever that might be. I have great confidence in everything that you can achieve, both collectively and individually.

My sincerest congratulations to you all.

David Farrar
Acting President and Vice-Chancellor

ALUMNI ASSOCIATION GREETINGS

On behalf of your fellow McMaster alumni, I offer you sincere congratulations for having successfully earned your degree. In addition to growing through the challenges of obtaining your formal education, I hope you have taken full advantage of everything McMaster has to offer outside the walls of the classroom.

As an alumni or alumna you are entering a new phase in your relationship with McMaster. Graduation is merely a milestone in your life-long association with our University. As alumni, you can play a continuing role as supporters of McMaster’s excellence by sharing your time, expertise, and enthusiasm with your alma mater.

As your Alumni Association, we are committed to providing you with many opportunities to maintain and grow your links with McMaster. McMaster’s alumni network, events, offerings, experiences, and programs will be great resources in your post-degree endeavours. I welcome you to the next step in a rewarding and dynamic relationship with our world-class university.

Stephanie McLarty, BASc’03
President, McMaster Alumni Association
The office of Chancellor (from the Latin cancellarius) finds its origin in the Roman Empire where the position was originally a “keeper of the barrier, secretary, usher of a law court”. Afterward, the office of Chancellor was invested with judicial powers and had superintendence over the other officers of the empire. From the Roman Empire this office passed to the church and then in most countries of Europe, the Chancellor was a high officer of state, keeper of the great seal of the kingdom, and having the supervision of all charters, and other public instruments of the crown, which were authenticated in the most solemn manner.

Like most of Convocation’s traditions the Chancellor’s association with universities is inextricably tied with its link to the church. Until about the 13th century, few people besides priests, clerks, and monks were literate, and the chancellor was thus an ecclesiastic. As keeper of the great seal used to authenticate royal documents, the chancellor became, in most medieval kingdoms, the most powerful official.

At McMaster, the Chancellor is the titular head and “unpaid friend” of the University as well as a member of the University’s Board of Governors and Senate. The Chancellor presides at all convocations and, by virtue of the authority vested by Senate, she confers all degrees and awards diplomas and certificates.

At Convocation the Chancellor sits on a massive oak ceremonial chair that bears a carved representation of an early version of the University Seal. Students are admitted to their degrees as they stand before the Chancellor while she declares:

Graduands: by my authority and that of the McMaster University Senate, I have the great pleasure to admit those before me today, and those In Absentia, to their individual degrees in McMaster University with all the rights and privileges pertaining to those degrees.

From 1887 until 1949, the University’s Chancellor also served as the University’s President. After 1949 the two positions were separated and the President relieves the Chancellor of making announcements, may present an honorary graduand for his or her degree and, as Vice Chancellor, confers degrees when the Chancellor is unable to do so.
Ms. Smith is a multidisciplinary artist, award-winning producer and managing Artistic Director of Kaha:wi Dance Theatre. She is from the Kahnyen’kehaka Nation, Turtle Clan, Six Nations of the Grand River territory.

Ms. Smith trained at Canada’s National Ballet School, completed Physical Education and Psychology degrees at McMaster University, and holds a Master of Arts in Dance from York University. Her artistic work speaks about identity, Indigenous narratives and experience. After premiering her debut work Kaha:wi - a family creation story in 2004, she founded Kaha:wi Dance Theatre, which has grown into an internationally renowned company. Producing live performance, arts education initiatives and intercultural exchange opportunities, she promotes creativity and collaboration. Her performances are conceived and devised from Indigenous ways of knowing and methodologies. With numerous productions touring nationally and internationally, her commissions also include choreography for the National Arts Centre Orchestra; Fall for Dance North; Canadian Opera Company; North American Indigenous Games; Stratford Festival; National Film Board of Canada; and Yokohama Noh Theatre, among others.

A sought after facilitator and speaker on the arts and Indigenous performance and culture, Ms. Smith is also a frequent teacher and lecturer at universities in Canada, the United States and globally, including Mexico, Japan and Australia. She is also active in the international performing arts market and a member of the International Society of the Performing Arts.

Ms. Smith is the recipient of numerous awards including the Chalmers Award; K.M. Hunter Award for Dance through the Ontario Arts Council; and the Victor Martyn Lynch-Staunton Award and John Hobday Award for Arts Management awarded by Canada Council for the Arts. Her Kaha:wi soundtrack won Best Cultural and Ethnic Recording at the Hamilton Music Awards in 2003. She received a Dora Mavor Moore Award for Outstanding Choreography in Dance for Susuriwka – willow bridge and was recognized as a Ehwaedei Yerihiwayente:ri - Community Scholar by Six Nations Polytechnic. In 2017, she received a REVEAL Indigenous Arts Award from the Nhatshyn Foundation. The Toronto premiere of Blood Tides received Outstanding Production and Outstanding Performance Ensemble in Dance at the Dora Mavor Moore Awards 2019 and she was awarded Outstanding Achievement in the Performing Arts by the Celebration of Nations, Niagara.
ORDER OF EXERCISES

Musical Prelude
The Graduand Procession
The Academic Procession
The Chancellor’s Procession

Opening Remarks
Dr. Douglas Welch, Vice-Provost and Dean of Graduate Studies and Master of Ceremonies

The Chancellor’s Welcome
Ms. Santee Smith

The Conferring of Degrees In-Course

Musical Interlude

The Presentation of the Graduates

The Valedictory Address
Maryam Badv

Awards of the 2018-2019 Session

The Alumni Address
McMaster Alumni Association

The President’s Address
Dr. David Farrar

Closing Remarks

The National Anthem

Convocation ceremonies will be recorded, broadcasted live and archived at http://registrar.mcmaster.ca/grad
Follow McMasterConvo on Twitter, and don’t forget to use #MacGrad2019 on all of your posts!

The President’s academic regalia is a gift of the McMaster University Alumni Association.

The Convocation Music Supervisor.................................Arlene Wright (Piano)
Convocation Trumpeters....................................................Robert DiVito and Valerie Cowie
Piper.................................................................................Jamie Connolly
Vocalist..............................................................................Margaret Bárdos
DOCTOR OF PHILOSOPHY

BIOLOGY

Morgan Patrick Kain
Thesis: Modeling Virus Transmission and Evolution in Mixed Communities

Michael Li
Thesis: Methods for Modeling the Spread of Infectious Disease

Mohammad Mohiuddin
Thesis: Employing Metagenomics to Capture the Dynamics and the Diversity of Freshwater Bacteria and Viruses

Lana Shaya
Thesis: Function and Regulation of Fish CYP3 Genes

BIOMEDICAL ENGINEERING

Maryam Badv
Thesis: Biofunctional Lubricant-Infused Surfaces for Medical Implants

Rober Boshra

Shahrzad Jahanshahi
Thesis: Development of DNA Constructs, Bacterial Strains and Methodologies to Characterize the Ibs/Sib Family of Type I Toxin-antitoxins in Escherichia Coli

CHEMICAL BIOLOGY

Holly Bilton
Thesis: The Synthesis and Evaluation of New Radiopharmaceuticals and Multimodal Imaging Probes

Michelle Eleccion Saoi
Thesis: Multiplexed Separations for New Advances in Biomarker Discovery and Tissue Metabolomic Studies

Samantha Rae Slikboer
Thesis: Synthesis and Evaluation of Multimodal Near-Infrared/Technetium-99m Probes for Imaging Cancer and Bone Injury

Michael Wolfe
Thesis: Point-of-need biosensors for the detection of respiratory biomarkers

CHEMICAL ENGINEERING

Yuanhua Li
Thesis: Towards All-Printed Lateral Flow Biosensors

Lu Zhu
Thesis: Inertia- and Elasticity-driven Turbulence in Viscoelastic Fluids with High Levels of Drag Reduction

CHEMISTRY

Ayodele Temitope Fatona
Thesis: Tuning the Interfacial Properties of Cellulose and Silicates Through Triazinyl and Thioacetal Chemistry

Gabrielle Foran
Thesis: Solid-State NMR Analyses of Molecular Structure and Dynamics in Hydrogen-Bonded Materials

Stuart Alexander McNelles
Thesis: Dendrimers for Imaging and Molecular Sieving

Derek Morim
Thesis: Harnessing Optochemical Waves in Polymers: From Beam Interactions to Inscription of Prismatic Elements
Sokuntheath Saem  
Thesis: Low-Cost Bench-Top Microfabrication of Nano/Microstructured Electrodes for Electrochemical Biosensing

Alyssa Schneider  
Thesis: Synthesis and Property Optimization of Ordered, Aryl Dense Polysiloxanes Using Boron Catalysis

Nadine L. Wellington  
Thesis: Targeted and Non-targeted Metabolite Analysis for Disease Risk Assessment: Measuring Biomarkers of Smoke Exposure and Habitual Diet

CIVIL ENGINEERING

Shasha Han  
Thesis: Probabilistic Flood Forecast Using Bayesian Methods

Mehdi Shafikhani  
Thesis: Chloride Effective Diffusion Coefficient of Concrete

Taylor Cameron Steele  
Thesis: Ultimate Limit States in Controlled Rocking Steel Braced Frames

Jun Wang  
Thesis: Development of Analytical Stochastic Models for Hydrologic Design of Stormwater Control Measures

COMPUTATIONAL SCIENCE & ENGINEERING

Shuo Feng  
Thesis: Cognitive Dynamic System for Connected and Autonomous Vehicles

ELECTRICAL AND COMPUTER ENGINEERING

Khaled Yehia Salem Morsy Ahmed  

Jingqun Li  
Thesis: Efficient Data Association Algorithms for Multi-Target Tracking

Ben Liu  
Thesis: Active Sonar Tracking Under Realistic Conditions

Mahsa Salmani  
Thesis: Multiple Access Computation Offloading

Ehab Mohammed Mahmoud Sayed  
Thesis: Adjoint-Based Optimization of Switched Reluctance Motors

Haleh Shahzad  

GEOGRAPHY

Waad Khogali Ali  
Thesis: The Social and Spatial Divisions of Precarious Labor

KINESIOLOGY

Jessica Anne Marie Cappelletto  

Robert Morton  
Thesis: Resistance Exercise-Induced Muscle Hypertrophy

Sara Yuriko Oikawa  
Thesis: The Role of Protein Quality and Physical Activity in Skeletal Muscle Protein Turnover in Older Adults

Lauren Elizabeth Skelly  
Thesis: Potential Factors Influencing the Acute and Chronic Response of Human Skeletal Muscle to Interval Exercise Training

EARTH AND ENVIRONMENTAL SCIENCES

David Anthony Kynaston  
Thesis: Stratigraphy, Provenance, Timing and Control of Incised Valleys in the Ferron Sandstone
MATERIALS ENGINEERING

Mukesh Kumar Sharma
Thesis: Fundamentals of Micro-particle Removal by Liquid Oxide

MATERIALS SCIENCE

Chao Zheng
Thesis: Theoretical Investigation of the Instability of Hybrid Halide Perovskites

MATHEMATICS

Hanci Chi
Thesis: Cohomogeneity One Einstein Metrics on Vector Bundles

Tyler Allan Meadows
Thesis: Applications of Dynamical Systems to Industrial Microbiology

Zelalem Firisa Negeri
Thesis: Contributions to statistical methods for meta-analysis of diagnostic test accuracy studies

MECHANICAL ENGINEERING

Ri Chen
Thesis: Colloidal Fabrication Techniques for the Development of Supercapacitor Electrodes and Devices

Ramy Osama Farag Ahmed Hussein
Thesis: Vibration Assisted Drilling of Carbon Fiber Reinforced Polymer and Titanium Alloy for Aerospace Application

PHYSICS AND ASTRONOMY

Nathan Armstrong
Thesis: The Electrodynamics of Quantum Materials: Quasicrystals, Semimetals, and Poor Metals

Yipeng Cai
Thesis: FRUSTRATED MAGNETISM STUDIES IN NACAnI2F7, ER3Ga5O12 AND ERMGGaO4

Ryan Plestid
Thesis: Quantum Effects in the Hamiltonian Mean Field Model

PSYCHOLOGY

Carling Manza Baxter
Thesis: The roles of male persistence and aggression in male-male and male-female interactions in Drosophila melanogaster

Jenna Elizabeth Boyd

Andrew Chang
Thesis: Perceptual Functions of Auditory Neural Oscillation Entrainment

Brett Cochrane
Thesis: Imagery Is like Perception: Three Perceptual Effects Produced with Color Imagery

Ruth Maria Hofrichter
Thesis: When Bodies Become Objects and Objects Come to Life: Specialized Processing for Social Stimuli and the Development of Animacy Detection

Melissa Ptok
Thesis: Memory effects from cognitive control: A stage-specific account of desirable difficulty

Roberto Valdizon
Thesis: Inferred Response Properties of the Synaptic Inputs Underlying Duration-Tuned Neurons in the Big Brown Bat

Natalie Katrina Rose Wagner
Thesis: On the Use of Simulation and Assessment in Surgical Training

Chao Wang
Thesis: Selection History in Attentional Control: Evidence from Contextual Cueing Effect and Item-specific Proportion Congruent Effect

RADIATION SCIENCES (MEDICAL PHYSICS)

Michelle Lindsay Lord
Thesis: In Vivo Detection of Retained Gadolinium in Bone by X-ray Fluorescence Following Administration of Gadolinium-Based Contrast Agents Used in MRI
MASTER OF ARTS

GEOGRAPHY
Charlotte Grace Elizabeth Pyke

MASTER OF FINANCIAL MATHEMATICS

Joshua Edward Beauchamp
Michael Danh
Xiaotian Feng
Lizhen Guo
Ming-Yu Hu
Behzad Iranpanah
James Patrick Lakatosh
Nicholas Murphy
Mehrnoush Salarian
Suheng Ye
Dongyi Yu
Puyuan Zhao
Yang Zhao

MASTER OF SCIENCE

BIOLOGY
Rachel Morgan Andrews
Luke Bayer
Soren Zachary Coulson
Tamara Marie Fuciarelli
Gregory Alexander Korfanty
Danielle MacDuff
Jessica Preston
Divya Jyothi Purohith
Saakethiya Sriranjan
Lauren Alexandra Tiller

CHEMICAL BIOLOGY
Drew MacKenzie Hansen

CHEMISTRY
Jennifer Hannah Garner
Chelsey Hurst
Hongzhao Shao
Muhammad Muneeb Shoai
Ana Zubiarrain Laserna

COMPUTATIONAL SCIENCE AND ENGINEERING
Qianqian Chen
Mingjie Jiang
Olatunji Oni

MARKSBERIAN SCIENCE

Markimba Marcus Williams
Mohsen Zargoush

COMPUTER SCIENCE
Karl Knopf
Shirin Mozaffari
Yan Yan

EARTH AND ENVIRONMENTAL SCIENCES
Jonathan Connor Darlington
Curtis J. Ferron
Reisa Joy San Pedro
Stefan Joseph Sauer
Supriya Singh

CHEMISTRY
Jennifer Hannah Garner
Chelsey Hurst
Hongzhao Shao
Muhammad Muneeb Shoai
Ana Zubiarrain Laserna

COMPUTATIONAL SCIENCE AND ENGINEERING
Qianqian Chen
Mingjie Jiang
Olatunji Oni

GEORPGRAPHY
Michele Tsang

HEALTH AND RADIATION PHYSICS
Laila Omar-Nazir

MATHEMATICS
Amandeep Singh Heer
Jordan Eric Pyke
Szymon Sobieszek
Johnson Tan
Michael Andrew Verwer

MATHEMATICS
Amandeep Singh Heer
Jordan Eric Pyke
Szymon Sobieszek
Johnson Tan
Michael Andrew Verwer

PHYSICS AND ASTRONOMY
Chun-Hao Chen
Duncan McIlenagan

RADIATION SCIENCES (RADIATION BIOLOGY)

Nicholas Arthur Wadden Brown
Rubina Akram Malik
Kirandeep Matharu
Aamina Qureshi
Sharmila Sreetharan
Carmen Tu
Laagishan Yoganathan

PSYCHOLOGY
Nicholas Arthur Wadden Brown
Rubina Akram Malik
Kirandeep Matharu
Aamina Qureshi
Sharmila Sreetharan
Carmen Tu
Laagishan Yoganathan

STATISTICS
Hanna Yewool Kim
Parmweer Nanui
Nikola Pocuca
Xinyi Wang
### MASTER OF APPLIED SCIENCE

#### BIOMEDICAL ENGINEERING
- Ali Babar
- Devon Emily Jones
- Marisa Kohut
- Jessica Kun
- Ivan Strakhov

#### CHEMICAL ENGINEERING
- Salman Alizadeh Kordkandi
- Sophia Christel Emerson
- Lijun Liu
- Ahmed Khaled Ah Saad
- Alexander Jack Sutherland
- Umatheny Umatheva

#### CIVIL ENGINEERING
- Nathan Joseph Buccella
- Daniel Alexis Lee Kim
- Jie Li
- Mohammadreza Najafijozani

#### ELECTRICAL AND COMPUTER ENGINEERING
- Xintong Guo
- Arvin Hekmati
- Yaohui Jing
- Paria Kargar Samani
- Milan Kordic
- Alex Lao
- Tsa Chun Liu
- Yongrui Ma
- Chenxiao Niu
- Aaron David Pitcher
- Yi Lin Sun
- Mengzhen Wang
- Ye Wang
- Botao Xiao
- Guanghan Zhao
- Jing Zhao

#### ENGINEERING PHYSICS
- Gregory James Hanta
- Amir Ehab Youssry Mohamed Ibrahim
- Rong Zha

#### MATERIALS ENGINEERING
- Dakota Binkley
- Danielle Marie De Rango
- Arash Fattahi
- Mohammadhossein Ghoncheh
- Divyanshu Gupta
- Khatereh Maleki
- Zhengzheng Wang

#### MECHANICAL ENGINEERING
- Ali Aliakbari Khoei
- Saeed Amirfarhangi Bonab
- Mike Oliver Haussmann
- Abdulellah Hbbani
- Edinei Locks

#### SOFTWARE ENGINEERING
- Alison Mary Theresa Bayzat
- Thomas Gwosdz
- Bennett Mackenzie

### MASTER OF ENGINEERING

#### CIVIL ENGINEERING
- Lucas Coletta
- Mini Weng

#### COMPUTER SCIENCE
- Sepehr Bayat
- Pouyan Momeni
- Peichuan Wang

#### COMPUTING AND SOFTWARE
- Shuo Hou
- Lingxiao Qi

#### ELECTRICAL AND COMPUTER ENGINEERING
- Chaoyu Chen
- Phillip Vinh Do
- Jingwen Dong
- Yarden Segal
- Kai Ling Yan

#### SOFTWARE ENGINEERING
- Devi Prasad Reddy Guttapati
- Wenqi Xu

#### SOFTWARE ENGINEERING AND VIRTUAL SYSTEM DESIGN
- Ron Harwood

### MASTER OF ENGINEERING DESIGN

#### SOFTWARE ENGINEERING
- Raj Ganesh Chidambaram Iyer
- Cole James Javier
- Shelby Johnson
- Mehak Joshi
- Salim Anwar Kairulla
- Sandeep Kaur
- Kamrujjaman Khan
- Xilai Li
- Manu Panakkel Moncy

#### SOFTWARE ENGINEERING AND VIRTUAL SYSTEM DESIGN
- Omkar Eknath Parab
- Shim Balkeesh Patel
- Chen Peng
- Hamed Pourkaveh
- Danilo Salas Ramirez
- Jashanjot Singh Samra
- Gayathri Saranathan
- Basir Ahmad Sherafghanzadah
- Anirudh Singal

- Navjot Singh
- Shu-Wei Tsai
- Dhruv Verma
- Branden Versluis
- Shijia Zeng
- Jingpeng Zhai
- Wei Hao Zhou
- Zicong Zou

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Friday, November 22, 2019 at 9:30 a.m., Great Hall, FirstOntario Concert Hall
MASTER OF ENGINEERING IN PUBLIC POLICY

Arwin Chan
Longinus Onyekachi Ekwe
Harjot Singh Gill
Chunhui Huang
Zhengming Jiang
Weijie Liang
Navpreet Kaur Maan
Jasmine Wadhwa
Yiran Xu

MASTER OF ENGINEERING IN MANUFACTURING ENGINEERING

Vivek Alphonse Rodriguez
Soura Anabtawi
Vsuryaganagayathri Sree Charan Aradhynula
Sahil Bansal
Anil Bektas
Arpit Nikhil Kumar Bhatt
Jan Boer
Hang Cai
Kevin Asikumar Christie
William Earl Davis
Neil Victor Dsa
Wisam Mohammad El-Hassan
Yehia Elirwey
Olin Arthur Flydorf
Andres Alonso Garces Llosa
Ahmed Sherif Issa
Jingxuan Ma
Marcin Stanislaw Magolon
Ryan McMin
Chirag Ramnabhai Nagar
Kunj Prakashbhai Patel
Manan Pankajbhai Patel
Vignesh Ramesh Kumar
Jignesh Mathurbhai Savaliya
Ryan Nabil Schmelenberg
Sivashankar Selvaraj
Md Mahfuz Hasan Shohag
Amandeep Singh
Jaspree Singh
Jay Paresh Kumar Sutariya
Truc Nguyen Hoang Ung
Nikhil Varghese
Yuli Yang

BACHELOR OF APPLIED SCIENCE

Brittany Cyr ................................................................. Human Behaviour
(Jordan in Health, Aging & Society)
Monica Snguon ............................................................... Human Behaviour (Early Childhood Education)
(Dan in English & Cultural Studies)
Di Xu ................................................................. Human Behaviour (Early Childhood Education)

BACHELOR OF SCIENCE

Daniella Jessica Afonso ................................................................. Life Sciences
(Minor in Chemistry)
Avleen Bassi ................................................................. Life Sciences
• Jamison Louis McClelland Batten ................................................................. Life Sciences
(Minor in Geography and Earth Sciences)
Matthew Alexander Berg ................................................................. Actuarial & Financial Math
• Matthew Steven Bianca ................................................................. Biology & Pharmacology
• Colin George Bijaoui ................................................................. Mathematics & Statistics
• Emma Anne Jackson Blackburn ................................................................. Life & Environmental Sciences
Tiffany Chien ................................................................. Life Sciences
(Minor in Psychology)
Barlow Ming Tat Chong ................................................................. Life Sciences
(Minor in Biology)
• Emma Marie Czernusza ................................................................. Biology
(Minor in Psychology)
Tanya Celine Abulencia Daniel ................................................................. Integrated Science (Biology)
Samantha Briesz De Sousa ................................................................. Biology
(Minor in Anthropology)
Dareen El-Sayed ................................................................. Life Sciences
(Minor in History)
• Mina Botros Eskander ................................................................. Life Sciences
Yingwei Fan ................................................................. Mathematics & Computer Science
Stefan Feret ................................................................. Biology
Domenic Pasquale Galamini ................................................................. Mathematics & Statistics
• Sandeep Ghotra ................................................................. Life Sciences
• Justin Todd Griffith ................................................................. Actuarial & Financial Math
• Hannah Hart ................................................................. Life Sciences
Zainab Muzaffar Hussain ................................................................. Life Sciences
• Kimia Javadifar ................................................................. Life Sciences
• Janis Jeyarajah ................................................................. Life Sciences
Arujini Kamalanathan ................................................................. Actuarial & Financial Math
Natasha Khalid ................................................................. Life Sciences
(Minor in Psychology)
Gowtham Kilaru ................................................................. Life Sciences
Paulina Kowalczyk ................................................................. Medical Physics
(Minor in Mathematics)
Madeleine Lepard ................................................................. Biology & Pharmacology

* with distinction (achievement of a minimum Grade Point Average of 9.5/12)
Nicholas Leung ................................................................. Biology
Gabriella Garsin Li ....................................................... Life Sciences
(Minor in Linguistics)
Zan Li ........................................................................ Mathematics & Statistics
Ubaid Mohammad ............................................................ Life Sciences
★ Daniel Duy Nguyen ....................................................... Biochemistry
Adriana Evelina Noce ........................................................... Life Sciences
(Minor in Psychology)
★ William Thomas Joseph Olds .................... Geography & Environmental Sciences
(Minor in Sustainability)
Shivam Patel ............................................................... Medical Physics
Jessop Luke Perazzo ..................................................... Earth & Environmental Sciences
(Minor in Geographic Information Systems)
★ Daniel Michael Presta ............................................. Mathematics & Statistics
(Minor in Economics)
Jovana Radakovic ....................................................... Psychology, Neuroscience & Behaviour
(Minor in Mental Health, Addiction and Society)
Maria Mujeeb Ur Rahman ............................................. Psychology, Neuroscience & Behaviour
Sona Puneet Rai ............................................................. Life Sciences
★ Wajiha Sabrani ............................................................. Life Sciences
(Minor in Sustainability)
Salome Mary Samuel ................................................... Biology
Mithula Selvagnanam .................................................... Mathematics & Statistics
★ Maalik Shabtaab ............................................................ Life Sciences
(Minor in Psychology)
★ Swar Shah ................................................................. Life Sciences
Oshin Sharma ............................................................... Biology
Yakun Shen ................................................................. Life Sciences
Kevin Shanpei Shi ........................................................... Physics
Sangwoo Shin ............................................................... Life Sciences
(Minor in Psychology)
Agnes Emily Silva ...................................................... Mathematics & Statistics
Sunny Jun-Jian Siu ........................................................... Medical Physics
★ Parker Bee Smale ....................................................... Biology & Psychology
★ Samantha Swayne ...................................................... Psychology, Neuroscience & Behaviour
Ann Jessica Szczepanski ................................................... Life Sciences
Ghishiyani Satheeskumar Thangavel ................................... Life Sciences
Michael Lloyd Thivierge ................................................. Geography & Environmental Sciences
Claudia Carina Tugulan ................................................... Biophysics
Adam David Tweedle .................................................... Integrated Science (Biolog)
Brinda Venkataramani .................................................. Mathematics & Statistics
(Minor in Physics)
Mustafaas Abdul Wahab ................................................... Life Sciences
Annie Zhirou Wang ........................................................... Life Sciences
(Yi jia Wang ................................................................. Mathematics & Statistics
Olivia Watkin-McClurg ................................................... Mathematics & Statistics
Shanthoshkanna Yohalingam .............................................. Life Sciences
(Minor in Biology)
Yasmin Yusuf ................................................................. Life Sciences
Xinyi Zhao ................................................................. Chemistry

BACHELOR OF SCIENCE KINESIOLOGY

HONOURS

★ Megan Jean Janis Black
Sarah Elizabeth Cowan
Seyedeh Leili Najafi
Rebekah Evelyn Rose Reimer
(Minor in Health, Aging & Society)
Emma Sanford

BACHELOR OF SCIENCE KINESIOLOGY

★ Tegveer Singh Kamra

* with distinction (achievement of a minimum Grade Point Average of 9.5/12)
BACHELOR OF SCIENCE

★ Nadin Abbas ................................................................. Life Sciences
Brennan Andrew Bawks ................................................... Chemical & Physical Sciences
Lucas Sichon Chan .............................................................. Mathematical Science
Amrit Cheema ................................................................. Mathematical Science
Shannon Kristen D’Souza .................................................... Life Sciences
Zheng Fu ................................................................. Mathematical Science
Aditya Gaur ................................................................. Chemical & Physical Sciences
Daniela Guarna ............................................................... Life Sciences
Jacob Joseph Gustin .......................................................... Chemical & Physical Sciences
★ Kristine Jeganathan ........................................................ Life Sciences
★ Thomas Kurian ............................................................. Mathematical Science
★ Vanessa Lin ................................................................. Life Sciences

Zinan Lin ................................................................. Life Sciences
Rohan Lohana ................................................................. Life Sciences
Zheng Fu ................................................................. Mathematical Science
Aditya Gaur ................................................................. Chemical & Physical Sciences
Daniela Guarna ............................................................... Life Sciences
Jacob Joseph Gustin .......................................................... Chemical & Physical Sciences
★ Kristine Jeganathan ........................................................ Life Sciences
★ Thomas Kurian ............................................................. Mathematical Science
★ Vanessa Lin ................................................................. Life Sciences

BACHELOR OF MEDICAL RADIATION SCIENCES

Alycia Hunt  ★ Subin Rho

BACHELOR OF ENGINEERING AND MANAGEMENT

Joseph Patrick Crozier .............................................................. Software
Andrew Stephen Cook ........................................................... Mechatronics

BACHELOR OF ENGINEERING AND SOCIETY

Luke Joseph Clark Pritchard ....................................................... Computer
Michael Tibay ................................................................. Mechanical
(Minor in Economics)

BACHELOR OF ENGINEERING

Mohammad Akhtar ................................................................. Chemical
Salman Akhtar ................................................................. Electrical
Sara Amjad ................................................................. Chemical
Alexandru Daniel Budure ....................................................... Chemical
Henrique Persson Custodio ....................................................... Electrical
(Minor in Economics)
Amanda Christine Dailey .......................................................... Chemical
Arie Joshua Dieleman ............................................................. Mechatronics
Ridwan-Al Fahim ................................................................. Computer
Puru Jetly ................................................................. Software
Yuanlong Jin ................................................................. Materials
★ Jiahao Li ................................................................. Software
Amandeep Singh Panesar ...................................................... Software
Pavithran Pathmarajah ......................................................... Software
Kyle John Charlie Pearce ....................................................... Chemical
Muhammad Yasob Siddiqui ..................................................... Electrical
Rajieve Ragunath ................................................................. Electrical

BACHELOR OF APPLIED SCIENCE

Minsik Kim  Martin Kyorkis

★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)
BACHELOR OF TECHNOLOGY

Alex Giovanny Bernal Combariza ............... Manufacturing Engineering Technology
★ Jordan Luis Candido ......................... Civil Engineering Infrastructure Technology
Joseph Daku .............................................. Civil Engineering Infrastructure Technology
Basant Elkady ............................................. Civil Engineering Infrastructure Technology
Paul Fedoryshin ....................................... Civil Engineering Infrastructure Technology
★ Michael Bryan Good ................................. Civil Engineering Infrastructure Technology
Michael Hamilton ....................................... Civil Engineering Infrastructure Technology
Anthony Lagrotteria ..................................... Civil Engineering Infrastructure Technology
Kristofer Francis Lajambe ................................ Civil Engineering Infrastructure Technology
Stefan McKenzie ........................................... Civil Engineering Infrastructure Technology
Carlo Odisho ............................................. Power & Energy Engineering Technology
Himal Patel ........................................... Civil Engineering Infrastructure Technology
★ Uzair Shamim .............................................. Software Engineering Technology
★ Diqingsh Shen ............................................ Software Engineering Technology
Vladimir Stepanenko .................................... Manufacturing Engineering Technology
★ Rajvir Singh Sumal ................................... Power & Energy Engineering Technology
Hong Jie Wang ........................................ Civil Engineering Infrastructure Technology
★ Junxi Xu .............................................. Civil Engineering Infrastructure Technology
★ Yifan Xu .............................................. Software Engineering Technology

Names of graduands listed in this program are those recommended to Senate as of November 13, 2019.

We regret that late additions to the graduation lists could not be included in this program. Some names of graduands may not be included in this program at the request of those individuals.

★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)
HONORARY DEGREE RECIPIENTS

Eva Egron-Polak, Doctor of Laws

Eva Egron-Polak served as the secretary general of the International Association of Universities (IAU) from 2002 to 2017. Created under the auspices of UNESCO (United Nations Educational, Scientific and Cultural Organization) in 1950, the IAU serves the global higher education community. Under her leadership, the organization became more active and influential in issues related to higher education policy, research, equitable access, sustainable development and institutional ethics. She also directed the IAU’s plans to launch regular global surveys, create the Leading Globally Engaged Universities professional development program and develop the Internationalization Strategies Advisory Service to help institutions internationalize their programs.

Prior to joining the IAU, Egron-Polak served in various senior positions at Universities Canada (formerly the Association of Universities and Colleges of Canada) for two decades, culminating in the position of vice-president, international programs.

In addition to remaining involved with the IAU as a senior fellow, Egron-Polak is a member of the executive board of GAPS (Global Access to Post-Secondary Education), a member of the executive advisory board of the International Higher Education Teaching & Learning Association and serves on the advisory board for StudyPortals. She has been a member of the governing council of the Magna Charta Observatory since 2012. She also co-authored the 2015 Internationalisation of Higher Education study for the European Parliament’s Committee on Culture and Education.

Mary Law, Doctor of Science

A McMaster M.Sc. graduate in Clinical Epidemiology and Biostatistics, Mary Law worked as an occupational therapist and research clinician before serving as director of research for Chedoke-McMaster Hospitals. She held progressively more senior academic appointments at McMaster University beginning in 1987, becoming a professor in the School of Occupational Therapy & Physiotherapy and the Department of Clinical Epidemiology and Biostatistics. She served a decade as associate dean of Health Sciences (Rehabilitation) and director of the School of Rehabilitation Science. In 2001, she became the inaugural John and Margaret Lillie Chair in Childhood Disability Research. She retired as a professor emerita in 2014.

Law coordinated the team that developed the Canadian Occupational Performance Measure and she co-founded the CanChild Centre for Childhood Disability Research. Her unique concept that occupational therapists could change disabling environments to allow children with disabilities to participate in daily activities influenced the World Health Organization’s International Classification of Functioning, Disability and Health.

An elected member of the American Occupational Therapy Foundation Academy of Research and a fellow of both the Canadian Academy of Health Sciences and the Canadian Association of Occupational Therapists, Law’s extensive list of honours also includes lifetime membership in the Canadian Association of Occupational Therapists. She is a member of the McMaster Faculty of Health Sciences Community of Distinction and an officer of the Order of Canada.
DISTINGUISHED ALUMNI

The Distinguished Alumni Award recognizes McMaster University graduates who have attained a high level of distinction and achievement through scholarship, research, teaching, creative contributions to the arts or sciences and/or service to society. This Award is intended to honour alumni whose accomplishments and contributions are of national and/or international significance, and/or have had a seminal or transformative impact on their field of endeavour.

Bruce Miyashita

Bruce Miyashita runs the organizational performance consulting firm Miyashita Advisory while also managing the Tom and Nancy Miyashita Foundation which he founded in honour of his late parents.

A graduate of McMaster’s Arts & Science Program, Miyashita began his career as an analyst with IBM Canada before he completed his MBA at the Ivey School of Business. After working with McKinsey & Company, he joined Bombardier Inc. as director of strategic initiatives and then became vice-president of Six Sigma with Maple Leaf Foods Inc. He also guided the development of BMO Financial Group’s Process Centre of Excellence.

An active philanthropist and volunteer, Miyashita founded the Tom and Nancy Miyashita Arts & Science Program Enrichment Fund at McMaster, as well as the New World of Work Forum. He has been instrumental in connecting Arts & Science students to the culture of Fogo Island, Newfoundland where he is an honorary member of the Fogo Island Arts Advisory Board. He also serves on the board of directors of Academics Without Borders and was inducted into the Princess Margaret Cancer Centre Hall of Fame for his fundraising efforts.

Alba DiCenso

A graduate of McMaster’s School of Nursing who also earned her M.Sc. from McMaster, Alba DiCenso joined the School of Nursing in 1978 as a lecturer, later becoming a professor with a joint appointment in the Department of Clinical Epidemiology and Biostatistics. She held the Canadian Health Services Research Foundation / Canadian Institutes of Health Research Chair in Advanced Practice Nursing for a decade, working to increase the number of nurse researchers in Canada. She also served as director of the CHSrF/CIHR Ontario Training Centre in Health Services and Policy Research. DiCenso retired from McMaster as a professor emerita in 2013.

DiCenso co-founded the Canadian Centre for Evidence-Based Nursing, founded and became lead editor of the Evidence-Based Nursing Journal and was the first author of the textbook Evidence-Based Nursing: A Guide to Clinical Practice.

A fellow of the Canadian Academy of Health Sciences and an honorary member of the Nurse Practitioners’ Association of Ontario, DiCenso received the Canadian Nurses Association’s Centennial Award and was inducted into the Faculty of Health Sciences Community of Distinction. She is a member of the Order of Canada.
GOVERNOR GENERAL’S ACADEMIC MEDAL

The Governor General’s Academic Medal is one of the most prestigious awards a student in Canada can receive. Established in 1873, this honour recognizes exceptional academic achievement at the high-school, collegiate, undergraduate and graduate levels.

Each year, McMaster awards just two Governor General’s Gold Medals to the students at the university who have achieved the highest academic standing at the graduate level. Earning this accolade not only places this year’s recipients among the top students to graduate from McMaster; it places them among the top students in all of Canada.

Faculties of Business, Humanities, Social Sciences and the Arts & Science Program (Thursday Morning Ceremony)

Shane Neilson

Shane Neilson graduates with a PhD in English and Cultural Studies. Shane conducted research as a Vanier Scholar under the supervision of Dr. Lorraine York within the field of Canadian literature, with a focus on the representations of chronic pain. Shane’s many adaptations of methodologies from the Humanities to Medicine have been widely disseminated in a variety of formats, from keynote speaker to TEDx talk to many peer-reviewed publications to books. A licensed physician working out of Guelph and teaching at McMaster’s Waterloo campus, Shane devotes himself to supporting the writing of others and conducts a public literary life in order to practise medicine by other means and change medical culture from within, for the benefit of patients and physicians both. Shane is finishing up the terms of his SSHRC-awarded talent grant and hopes to begin a postdoctoral position at the University of Ottawa next year, where he will research the history of socialized medicine using Canadian literature as his archive. Shane wishes to thank in particular his wife, Janet Sunohara-Neilson.

Faculties of Engineering and Science (Friday Morning Ceremony)

Andrew Chang

Andrew Chang is graduating with a PhD in Psychology, with the support from Vanier Canada Graduate Scholarship, Ontario Graduate Scholarship, and the NSERC-CREATE scholarship. He performed cognitive neuroscience research under the supervision of Dr. Laurel J. Trainor in the Auditory Development Lab and the LIVELab. His research is on the perceptual and neural mechanisms of human processing dynamic auditory information and their reactions, and the findings have been published in five papers. He grew up in Taiwan and received his B.S. in Psychology from National Taiwan University. He plays the violin with the Burlington Symphony Orchestra. Andrew will be a postdoctoral researcher at New York University, with support from the Kirschstein Postdoctoral National Research Service Award. Andrew would like to thank Dr. Trainor for being an amazing mentor, his colleagues, friends, and family for their unconditional support, and his wife Wei Vivian Tsou for being his perfect companion.

VALEDICTORIANS

Faculty of Health Sciences (Thursday Afternoon Ceremony)

Ahmad Firas Khalid

Faculties of Engineering and Science (Friday Morning Ceremony)

Maryam Badv
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