



Convocation  
Ceremony Program

ONE HUNDRED AND TWENTY-SEVENTH CONVOCATION

# CONVOCATION

FRIDAY  
**OCT  
20  
2023**

Morning Ceremony  
**FACULTY OF MATHEMATICS**

Afternoon Ceremony  
**FACULTY OF HEALTH  
FACULTY OF SCIENCE**

# CONVOCATION

*On this day, as the University of Waterloo awards degrees and celebrates the achievements of a new generation of graduates, the members of the University and its guests share in a 900-year-old ritual called convocation.*

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FRIDAY, OCTOBER 20, 2023

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# Message from the Chancellor

As Chancellor of the University of Waterloo, it is my honour to preside over today's ceremony. Today, we welcome representatives from our community including faculty, staff and alumni to share in and celebrate the achievements of our graduates.

The University of Waterloo was established in extraordinary times, and as a result it continues to be a place that nourishes the values and character that make up extraordinary leaders. This is particularly relevant as today, we are living in extraordinary times – in the midst of a climate and energy transition, significant geopolitical change, and profound technological change – this is Waterloo's time.

I believe that the University of Waterloo is a special institution encompassing a community of faculty, students and graduates who are more prepared for change and a shifting future than many others in the world.

Convocation is a significant milestone in life. It also marks our graduates' transition to becoming our newest alumni members, extending the University of Waterloo community's reach globally. Since the institution's inception in 1957, we have conferred more than 244,000 degrees and certificates. Our alumni community extends to over 150 countries and are a committed and supportive network.

When I look across our campuses and beyond, I see impactful innovations coming to fruition. Examples include using quantum to improve MRI capabilities in health care, finding new methods to combat the spread of misinformation, and integrating AI more seamlessly into a variety of critical applications such as resource usage, manufacturing, research development and knowledge development.

We are a community of innovative leaders who seek out ways to solve the big problems of our time. From best-selling poets to NASA researchers and venture capitalists, Olympians to CEOs of multi-national corporations and leading environmentalists, we are providing the world with more Waterloo, and it is making the world a better place.

I believe that the world needs Waterloo graduates to harness all their experiences to lead and shape the future. The exceptional knowledge and creativity they have honed at the University of Waterloo has prepared them to be the leaders the world needs.

As our graduates cross the stage, they will bear the privilege and responsibility of bringing the spirit and values of this distinguished institution with them, wherever their lives may lead. They now also have an opportunity to shape a better, more equitable world through their careers and community involvement.

*Congratulations to all of our graduates and thank you for continuing the Waterloo tradition of excellence.*



**DOMINIC BARTON**  
*Chancellor*

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**“FROM BEST-SELLING POETS TO NASA RESEARCHERS AND VENTURE CAPITALISTS, OLYMPIANS TO CEOs OF MULTI-NATIONAL CORPORATIONS AND LEADING ENVIRONMENTALISTS, WE ARE PROVIDING THE WORLD WITH MORE WATERLOO, AND IT IS MAKING THE WORLD A BETTER PLACE.”**

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# Message from the President and Vice-Chancellor

*On behalf of the staff and faculty at the University of Waterloo, I am thrilled to welcome our graduates and their family, friends and supporters to convocation.*

To our graduates, my heartfelt congratulations. Today's ceremony recognizes your hard work and perseverance during your time at the University of Waterloo. You cross the stage today having gained more than the lessons learned in the classroom, library or lab. You have built relationships and forged networks with peers and instructors. Those connections are the basis of a vibrant and expansive community at the heart of our institution's rich history and its success to date. As you transition from student to alumni, I hope you each will continue to stay connected to the Waterloo community.

To the family, friends and supporters of our graduates, thank you. Thank you for supporting our students and encouraging them along their academic journey. And thank you for being here today – this ceremony is more meaningful as a result of everyone's participation.

In the 1950s, the founders of the University of Waterloo sought to establish a university that was different. An institution that embraced community and an unconventional way of identifying and solving big, complex challenges facing the world. That same spirit exists across our campuses today. It also continues through the work of our global network of alumni. The graduates leaving our campuses today have the opportunity to lead

and be change-makers who can help address the challenges of tomorrow and build a better future for humanity and our planet.

Waterloo graduates are known for integrating knowledge and problem-solving across disciplines. They are known for their courage and resiliency. Above all, they are known for approaching challenges in unique ways and uncovering innovative solutions. I look forward to hearing about the innovations and impact today's graduates will have on their communities in the future.

Convocation is a wonderful reminder that we all have an opportunity, and a responsibility, to positively impact those around us. Let's all work together to help shape the world for the better.

*On behalf of the University of Waterloo, I wish our graduates the best of luck in the journey ahead.*



**VIVEK GOEL**

CM

*President and Vice-Chancellor*

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**“AS YOU BEGIN THE NEXT CHAPTER OF YOUR JOURNEY,  
I ENCOURAGE YOU TO THINK UNCONVENTIONALLY.”**

# Message from the Alumni Council Chair

*Congratulations Class of 2023!*

On behalf of the University of Waterloo's Alumni Council and your fellow alumni, congratulations on the successful completion of your degree. You demonstrated hard work, dedication and resilience. We are proud of you and delighted to welcome you as the newest members of our community.

Graduation is a significant milestone for you both personally and professionally. I encourage you to celebrate your achievement and take time to appreciate the people in your life that helped you along the way – your family, friends, classmates and teachers.

As you look ahead to the next phase of your life, I'm confident that your time at Waterloo has prepared you well. You have the expertise, creativity and resourcefulness to tackle whatever problem you choose. Although this is an especially uncertain time to graduate, it is also a very exciting one. Longstanding practices are changing and there is opportunity for new ideas to break through.

*Welcome to a network of more than 244,000 alumni, connected by their experiences at Waterloo.*

Throughout your career, I encourage you to stay connected to your alumni community. There are more than 244,000 of us and we are here to support you as you work towards your goals. You can contact Waterloo alumni from anywhere in the world – through our Global Ambassadors, Alumni Chapters and online groups.

I also hope you will join me in sharing your time, knowledge and passion with the University. It is rewarding to volunteer with other talented alumni and your unique perspective can benefit future graduates more than you know.

Congratulations once again on your graduation. You have much to be proud of and a very bright future ahead of you!

*I wish you all the best.*



A handwritten signature in black ink that reads "Diana Vangelisti".

**DIANA VANGELISTI**

BES '84 MA '89

*Chair, University of Waterloo Alumni Council*

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**“THERE ARE MORE THAN 244,000 OF US AND WE ARE HERE  
TO SUPPORT YOU AS YOU WORK TOWARDS YOUR GOALS.”**

# Our tradition of convocation

*The ritual of convocation is a tradition that honours the roots of the University, and is, at the same time, a beginning for students who now enter a new stage in their lives.*

*We welcome guests on this celebratory occasion and thank you for being present to share in it.*

Both the symbols and the ceremony of convocation look back far beyond the beginning of the University of Waterloo, back to the centuries of university life in Western civilization which Waterloo joined six decades ago. The founders of this University were eager from the beginning to make it part of that long tradition, although they proudly asserted that they were building a new and innovative university, with close ties to industry and an emphasis on practical knowledge for building the future.

On this day, as ancient customs mix with the use of up-to-date technology and exuberance of a new generation, convocation connects a forward-looking university with the traditions that universities have observed as long as they have existed.

The University of Waterloo grew out of an older institution, Waterloo College. A still older one, the University of St. Jerome's College, soon became federated with it, and the college of Optometry of Ontario joined the family in 1967. Although all these institutions were newcomers compared with Oxford and Harvard and the Jagiellonian, the connection to the traditional role and style of a university remains clear.

Tradition underlies the proceedings of today's convocation, the continuity of this University with centuries of academic experience. Passion brings the proceedings to life, along with the enthusiasm with which the University recognizes new achievements and new ideas.



1960s  
CONVOCATION  
AT WATERLOO

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## A CALLING TOGETHER

Students graduate at the end of a program of study, leading to a degree with a traditional name: Bachelor, Master, or Doctor. On this day, their families and friends celebrate their success and their transition from one status in life to another. Convocation has been, for the past nine hundred years, a meeting of the whole university community at which symbols are displayed, participants wear special attire to emphasize their official roles, and speakers share their wisdom and the values that the university seeks to teach. Convocation (the name comes from Latin, which was once the chief language of higher education) is a calling together of new graduates to receive the symbols of their accomplishments, and a calling together of the older members of the university to witness and join in the celebration.

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## CONNECTING WITH TRADITION

At Waterloo's first convocation in June 1960, the guest speaker was James J. Talman of the University of Western Ontario, who told the audience a little about the history of Waterloo County and its industry.

"The greatest resource we still have is the minds of the people" Talman said, "And this resource still remains to be developed to its full potential. The people of the Grand Valley clearly appreciate this fact. As we see the success with which they developed the physical resources in the past we can only conclude that they will be just as successful in developing the intellectual resources of the future. The University of Waterloo can look forward to a brilliant and successful future."

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## THE PROCESSION

The most impressive part of the ceremony may be the procession that begins it. The graduating students will come in first, and as they fill up the main body of the hall, they will give the impression that today's ceremony really is, as convocation used to be, a ceremonial meeting of the whole university community.

After the graduating students have come in, the academic procession will begin. First to enter is the ceremonial Eagle Staff, a symbolic representation of the continuous presence of Indigenous peoples of these lands, carried in by an Eagle Staff carrier. Next, a selected faculty member will carry the mace, a traditional symbol of the University's authority. Then faculty members enter, walking two by two, dressed in their academic finery.

The final party to arrive is the Chancellor's party. The Chancellor is the ceremonial head of the University of Waterloo. The Chancellor presides over convocation ceremonies every June and October and awards all degrees, diplomas and certificates, including honorary degrees. The Chancellor offers an inspirational message for the graduands at these ceremonies.

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## THE MACE

The solid silver and ebony wand was given to the University in 1965 by the family of the late Stanley F. Leavine and was designed by Toronto artist Eric Aldwinckle and crafted by silversmith Harold Stacey to symbolize the University as it was at that time. It displays lions, chevrons, and the shield of the province of Ontario, from which the University holds its charter to grant degrees.

The symbolic theme of the mace is unity amid diversity, and tension in the creative intellectual process that strive to bring forth a new individual. The design of the mace interprets this theme in the idiom of the life process: from the seeds at the base of the staff the mace grows in unity and strength until it differentiates by a four-fold separation into diverse elements.







The four-fold diversity is significant because of the four faculties existing at the time the mace was presented to the University and as well of the four church-related colleges federated and affiliated with the University. These diverse elements together form a crown, and the point of the crown, while tending toward a union, do not quite touch. They remain as individuals suspended in tension and yet engaged in deep harmony. This creative process is focused not on the traditional spherical orb of static perfection but rather on an elliptical silver ovum – the egg-shaped symbol of creativity – the marvelous potential of a new individual life.

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## THE COAT OF ARMS AND MOTTO

The lions and chevrons also appear on the shield that is the University's coat of arms and that is imprinted on the graduates' diplomas. Derived from traditional heraldry, it has been used since 1961 and was registered with the Court of the Lord Lyon in 1987. The shield uses the official colours of gold, black and white, and its symbols refer to the University's base in the cities of Kitchener and Waterloo. The unusual double chevrons were borrowed from the coat of arms of Lord Kitchener of Khartoum, and the red lions are like those on the coat of arms of the Duke of Wellington, victor at the 1815 Battle of Waterloo. The lions also reflect the tough and innovative spirit of the University's founders and builders, and the black and white in the chevron are the colours of Prussia, reflecting the Germanic background of many Waterloo County settlers. Beneath the shield appears the University's motto, *Concordia cum veritate*, "In harmony with truth."

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## DEGREES AND HONORARY DEGREES

Presentations of earned and honorary degrees, and the speeches associated with them, take up most of the time at convocation. Undergraduate and graduate degrees are awarded in each of our six faculties: the faculties of Arts, Engineering, Environment, Health, Mathematics and Science. Also included are students who attended our colleges, Conrad Grebel University College, Renison University College, St. Jerome's University and United College.

In addition to "earned" degrees awarded to students who have met the requirements through years of effort, the University of Waterloo confers "honorary" degrees to individuals who have been designated by the Senate, the University's academic governing body, as deserving special honour. They, too, receive hoods, lined with the colour of the faculty that nominated them or with specially designated colours for other kinds of achievement.

By tradition, public service is recognized with a Doctor of Laws degree even in a university that does not regularly teach law. The individuals receiving honorary degrees are introduced during the ceremony, and a brief citation is read to explain their various accomplishments deserving of recognition by a university. One of the honorands will address convocation after the degree has been given.

# A new tradition

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## EAGLE STAFF

On September 22, 2022, the University of Waterloo held a Commitment Ceremony pledging action towards decolonization, indigenization and reconciliation. Weaving in the knowledge, ways of knowing, and understandings of First Nation, Métis and Inuit peoples equips the Waterloo community, especially Waterloo graduates, with the tools and knowledge they need to create a better future for all. The commitment was formalized through a Pipe Ceremony, after which President and Vice-Chancellor, Vivek Goel, was given the name “Ogiima” (meaning leader) and presented with gifts of an eagle feather and two Wampum belts. Our recommitment is formally acknowledged in a special ceremony each fall.

Building on the desire and responsibility to incorporate Indigenous perspectives, the University of Waterloo community came together for a ceremony on March 27, 2023, to welcome an Eagle Staff to the University.

An Eagle Staff is an important element of the Indigenous relationship to Earth and those that have protected it. It reflects the wisdom, strength and honour of those that carry it in representing different nations across Turtle Island. By welcoming the Eagle Staff, the University acknowledges the responsibility to recognize, accept and incorporate Indigenous perspectives in the ways we teach, govern and behave as an institution. The Eagle Staff will be present at future Waterloo ceremonies and celebrations and will have a prominent place in convocation ceremonies.

The Eagle Staff honours the University’s First Nations, Métis and Inuit community members, as well as their traditions, cultures and strengths. It is a sacred item that holds a spirit within itself that is cared for by the Indigenous campus community, and that care is reciprocated by the Eagle Staff.

Waterloo region is situated on territory traditionally shared by Anishinaabeg, Neutral (or Attawandaron), and Haudenosaunee Nations. Though many nations, including the Anishinaabeg, involve an Eagle Staff in their traditions and practices, we respectfully acknowledge that this is not the practice of all nations. With gratitude, we honour and celebrate the unique traditions of all First Nations, Métis and Inuit peoples, and look forward to reflecting this diversity in spirit and custom as we move forward on this path of decolonization, indigenization, and reconciliation.



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**“THE STAFF WILL SERVE AS AN IMPORTANT SYMBOL AND REMINDER OF THE  
COMMITMENT WE MADE TO RECONCILIATION AND SERVE AS INSPIRATION  
FOR OUR UNIVERSITY COMMUNITY TODAY AND FOR FUTURE GENERATIONS.”**

**VIVEK GOEL**

*President and Vice-Chancellor*

# Honorary Doctorates

An honorary degree (*honoris causa*) is the highest honour conferred by the University. Through the conferring of honorary degrees, the University of Waterloo seeks to recognize outstanding achievement, whether academic or through service to society.



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## DAVID JOHN HAND

MA, MSc, PhD

Doctor of Mathematics, *honoris causa*

FRIDAY, OCTOBER 20 / MORNING CEREMONY

Dr. David Hand (OBE) is Senior Research Investigator and Emeritus Professor of Mathematics at Imperial College, London, as well as Chief Scientific Advisor to Winton Capital Management. Hand is a Fellow of the British Academy, an Honorary Fellow of the Institute of Actuaries, and, in 2013, was made an Officer of the Most Excellent Order of the British Empire for his services to research and innovation. He has authored or co-authored more than 300 scientific papers and 20 books, and his research has garnered him numerous awards including a Research Merit Award from the British Royal Society.



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## ALISON PHIPPS

OBE, PhD

Doctor of Letters, *honoris causa*

SATURDAY, OCTOBER 21 / MORNING CEREMONY

Dr. Alison Phipps (OBE) is professor of Languages and Intercultural Studies at the University of Glasgow and UNESCO Chair in Refugee Integration through Languages and the Arts. Author of eight books and over 60 articles, her research and teaching focus on refugee studies, social justice, and intercultural education. She is an active supporter of refugee rights, having served on the board of Right to Remain and as co-founder of the Glasgow Refugee, Asylum and Migration Network. Phipps is a Fellow of the Royal Society of Arts, the Academy of Social Sciences, and a recipient of the Royal Philosophical Society's Minerva Medal.



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## WEIYA XU

PhD

Doctor of Engineering, *honoris causa*

SATURDAY, OCTOBER 21 / AFTERNOON CEREMONY

Dr. Weiya Xu is the former vice-president at Hohai University, and is a highly acclaimed researcher in engineering rock mechanics. Through fundamental, theoretical, computational, and experimental research, Xu developed an innovative and realistic system of theory and associated methods and made several seminal contributions to theory and practice. His pioneering contributions include the study of coupled thermal, hydraulic, mechanical, and chemical processes.

# Honorary Members of the University

*The Honorary Member of the University designation is the highest honour a staff member can obtain at the University of Waterloo and is granted upon retirement. It recognizes the individual for outstanding service to the University as a whole, not limited to one department or faculty. For faculty members, it recognizes distinctive administrative service to the University.*



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## **SCOTT WILLIAM DAVIS**

BES, MA

Co-operative and Experiential Education

FRIDAY, OCTOBER 20 / MORNING CEREMONY

Scott Davis has had an outstanding career, spanning over 35 years within co-operative education. His work as a program coordinator supported thousands of students in their learning, and as faculty relations manager he collaborated with associate deans on program reviews, new program development, and problem-solving student cases. Davis joined the Risk Management, Economic and Actuarial Science Development in Indonesia project which resulted in the Indonesian government adopting co-operative education as a recognized model of education. Outside of the University, he served on the board of Experiential & Work Learning Ontario (EWO) as chair, was active with Co-operative Education and Work Integrated Learning Canada (CEWIL CANADA), and was chair of the Accreditation Council.



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## **KAREN TREVORS**

BSc, MSc

Faculty of Science

FRIDAY, OCTOBER 20 / AFTERNOON CEREMONY

Karen Trevors received a Bachelor of Science Honours degree in Biology from Acadia University in 1979 and a Master of Science degree in Biology from the University of Waterloo in 1981. Trevors was hired as an instructor in the Department of Biology at the University of Waterloo in 1985 and worked in that capacity until 2000 when she was hired as executive officer in the Faculty of Science. She remained in that role for the rest of her career at Waterloo. Trevors also served on many University committees, including staff relations, staff dispute resolution, joint health and safety, staff grievances, and honorary degree. Trevors retired from the University in 2023.

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**WILLIAM CHESNEY**

*BFA*

Faculty of Arts

SATURDAY, OCTOBER 21 / MORNING CEREMONY



William Chesney joined the Department of Communication Arts (formerly the Department of Drama and Speech Communication) in 1993 and served as associate dean of undergraduate studies from 2007 to 2019. An innovative researcher and practitioner of stagecraft, he produced over 80 set and costuming designs at the University as well as for countless productions across Canada. Chesney is highly regarded for his teaching and mentorship, especially in helping students realize their artistic vision. He led the Faculty of Arts in transforming its curriculum to better meet student needs. Chesney is a tireless advocate for the fine and performing arts, and effectively championed their societal contributions at the university and beyond.

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**DENNIS HUBER**

*BBA, CPA*

Administration and Finance

SATURDAY, OCTOBER 21 / AFTERNOON CEREMONY



As the longest serving vice-president in the University of Waterloo's history, Dennis Huber played an integral role in supporting the evolution of Waterloo into the world-class institution of higher learning we know today. Arriving at Waterloo in 1986 as a plant operations manager, he rose to become director of Business Services, then associate provost, general services and finance and finally, in 2001, vice-president, administration and finance. Thanks to his tireless efforts, Waterloo acquired an additional 50 acres of lands and buildings, its facilities more than doubled in size and it opened four satellite campuses. His leadership was instrumental in the development of the David Johnston Research + Technology Park on the University's north campus, as well as the interconnection of most buildings within the ring road. In every aspect of his work, Huber promoted responsible and sustainable stewardship of the University's financial and physical assets. Retiring last fall after 36 years of outstanding service, he left a lasting mark on Waterloo.

# Guest Speaker



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## **MARGARET MUTUMBA**

*BSc, MPH, PhD '21*

School of Public Health Sciences

FRIDAY, OCTOBER 20 / AFTERNOON CEREMONY

Dr. Margaret Mutumba is a global health innovator focused on access to affordable healthcare in low resource settings. She has over 10 years of health sector management experience in Sub-Saharan Africa. She also has research experience in maternal, reproductive, fertility and health systems. Mutumba has proven success in health innovation and entrepreneurship. She possesses a strong ethos of equity, evident in actions that support diversity, inclusion, and anti-racism. Mutumba earned an Honours Bachelor of Science, Pharmacology, Kings College London; a Master of Public Health, Imperial College London, and a Doctorate in Public Health Sciences, University of Waterloo. She is program director at Frugal Medical Innovations at Western University.



# MORNING CEREMONY

Degrees and diplomas from:  
**UNIVERSITY OF WATERLOO**  
**FACULTY OF MATHEMATICS**

# Graduate Degrees

## FACULTY OF MATHEMATICS

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### DOCTOR OF PHILOSOPHY

**Campbell, Jacob** (Pure Mathematics)  
“Finitary Approximations of Free Probability, Involving Combinatorial Representation Theory”

**da Silva Portugal, Ivens** (Computer Science)  
“Graph-Based Spatial-Temporal Cluster Evolution: Representation, Analysis, and Implementation”

**Daly, Padraig Conor** (Pure Mathematics)  
“Quantum Superchannels on the Space of Quantum Channels”

**Dockhorn, Tim Uli** (Computer Science)  
“Accelerating and Privatizing Diffusion Models”

**Hou-Liu, Jason** (Statistics)  
“Structured Mixture Models”

**Jain, Aditya** (Applied Mathematics - Quantum Information)  
“Improved Diagnostics & Performance for Quantum Error Correction”

**Jiang, Ruihong** (Actuarial Science)  
“Several Mathematical Problems in Investment Management”

**Jiang, Zhiying** (Computer Science)  
“Less is More: Restricted Representations for Better Interpretability and Generalizability”

**Kacsmar, Bailey** (Computer Science)  
“Perceptions and Practicalities for Private Machine Learning”

**Levit, Maxwell** (Combinatorics and Optimization)  
“Graph Coverings With Few Eigenvalues or No Short Cycle”

**Liang, Zhanlue** (Applied Mathematics)  
“Formation Control of Multi-Agent Systems via Impulsive Strategy”

**MacLean, Luke Raymond** (Pure Mathematics)  
“Notions of Complexity Within Computable Structure Theory”

**Masson, Damien Paul Andre** (Computer Science)  
“Transforming the Reading Experience of Scientific Documents with Polymorphism”

**Meaney, Cameron Francis** (Applied Mathematics)  
“Applications of Deep Learning to Differential Equation Models in Oncology”

**Mohammadrezaei, Dorsa** (Applied Mathematics)  
“Integrating Experimental and Computational Approaches to Optimize 3D Bioprinting of Cancer Cells”

**Nian, Ke** (Computer Science)  
“Data-Driven Models: An Alternative Discrete Hedging Strategy”

**Paul-Paddock, Connor James** (Combinatorics and Optimization - Quantum Information)  
“Near-Optimal Quantum Strategies for Nonlocal Games, Approximate Representations, and BCS Algebras”

**Pirnia, Shahab** (Statistics)  
“Enhanced Backward Multiple Change-Point Detection”

**Radke, David Thomas** (Computer Science)  
“The Impact of Teams in Multiagent Systems”

**Redlin Hume, Shayla Annalise** (Combinatorics and Optimization)  
“Enumerating Matroid Extensions”

**Sawatzky, John Michael** (Pure Mathematics)  
“Mind the GAP: Amenability Constants and Arens Regularity of Fourier Algebras”

**Sharma, Charupriya** (Computer Science)  
“Improved Scalability and Accuracy of Bayesian Network Structure Learning in the Score-and-Search Paradigm”

**Sharp, Alexander Byron** (Statistics)  
“Functional Finite Mixture Modelling and Estimation”

**Sheshbolouki, Aida** (Computer Science)  
“Mining Butterflies in Streaming Graphs”

**St-Pierre, Catherine** (Computer Science)  
“Algorithms in Intersection Theory in the Plane”

**Tian, Yongqiang** (Computer Science)  
“Assessing the Reliability of Deep Learning Applications”

**Tsimiklis, Panagiotis** (Applied Mathematics)  
“Higher Gauge Theory and Discrete Geometry”

**Vukovic, Andrej** (Pure Mathematics)  
“Divisibility of Discriminants of Homogeneous Polynomials”

**Wang, Qiuqi** (Actuarial Science)  
“Characterizing, Optimizing and Backtesting Metrics of Risk”

**Wu, Kaiyu** (Computer Science)  
“Succinct and Compact Data Structures for Intersection Graphs”

**Xie, Yuqing** (Computer Science)  
“Information Access Using Neural Networks for Diverse Domains and Sources”

**Yeh, Chi-Kuang** (Statistics)  
“Methods in Functional Data Analysis: Forecast Evaluation, Robust Serial Dependence Measures and Spatial Factor Copula Models”

**Yeh, Yen-Ting** (Computer Science)  
“Investigating New Forms of Single-Handed Physical Phone Interaction With Finger Dexterity”

**Yin, Mingren** (Actuarial Science)  
“Risk Measures of Stop-Loss and Limited Loss Random Variables Under Model Uncertainty With Applications in Insurance”

**Zhu, Wenhan** (Computer Science)  
“Using Crowd-Based Software Repositories to Better Understand Developer-User Interactions”

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### MASTER OF ACTUARIAL SCIENCE

Banjo, Rilwan Olayemi  
Bhatia, Sanchita  
Cai, Shiyu  
Chen, Zimo  
Claudia, Stefanie  
Ghosh, Siddhartha  
Hu, Xiaoxuan  
Kao, Eugene  
Khurana, Yashita  
Shu, Yuou  
Wang, Xiaohan  
Yu, Jie  
Yuan, Tingyue  
Yuen, Cheuk Hei

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### MASTER OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Isilak, Alaattin  
Ren, Qingze (Co-operative Program)



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## MASTER OF MATHEMATICS

**Anis Kamel, Haya Sherif Mohamed**  
(Actuarial Science)

**Arora, Divyang** (Computer Science)

**Arumugam, Krishna Kanth**  
(Computer Science)

**Asare, Owura** (Computer Science)

**Bader, Laura** (Statistics)

**Baselizadeh, Soroosh** (Computer Science)

**Bhowmik, Rohan** (Computer Science – Co-operative Program)

**Boldt, Vincent** (Pure Mathematics)

**Boos, Tanner James** (Pure Mathematics)

**Burmester, Daniel James**  
(Biostatistics – Co-operative Program)

**Burnett, Landon Codie** (Pure Mathematics)

**Cai, Xiyu** (Computer Science)

**Campbell, Adam** (Computer Science)

**Chambers, Owen Clark** (Computer Science)

**Chen, Jing Xuan** (Pure Mathematics)

**Chen, Qianyu** (Actuarial Science)

**Chen, Sijie** (Statistics)

**Chen, Xiang** (Computer Science)

**Chen, Yushan** (Statistics)

**Chen, Zheyu** (Actuarial Science)

**Clark, Daniel Samuel Zeldin** (Pure Mathematics)

**Cookson, Samuel Robert** (Pure Mathematics)

**Crane, Matthew James** (Actuarial Science)

**Dai, Dongshu** (Pure Mathematics)

**Diaz Robles, Martin Fernando**  
(Applied Mathematics)

**Duan, Xiaohu** (Computer Science)

**Ebrahimiaghazani, Faezeh**  
(Computer Science)

**Ebtehaj, Mohammad Hossein**  
(Computer Science)

**El Yassini, Ismael** (Pure Mathematics)

**ElSaid, Ali** (Statistics)

**Ghasemitaheri, Shadi** (Computer Science)

**Gold, Jonathan Seth** (Combinatorics and Optimization)

**Gong, Rui** (Combinatorics and Optimization)

**Guo, Qing** (Computer Science – Co-operative Program)

**Hafizi, Arman** (Computer Science)

**Haithcock, Evan Moore**  
(Combinatorics and Optimization)

**Hakimi, Shervin** (Applied Mathematics)

**Han, Young In** (Pure Mathematics)

**Hao, Wenhao** (Actuarial Science)

**Hasan, Mohsin** (Computer Science)

**Hildred, Joshua Thomas** (Computer Science)

**Hough, Matthew James**  
(Combinatorics and Optimization)

**Hu, Wei Qi** (Computer Science)

**Huang, Huiqing** (Data Science)

**Hui, Ying Kit** (Computational Mathematics – Co-operative Program)

**Jiang, Kaiwen** (Applied Mathematics – Co-operative Program)

**Jin, Ende** (Computer Science)

**Karras, Michael Emad** (Computer Science – Co-operative Program)

**Kashi, Tejasvi Girish** (Computer Science)

**Ke, Xinyi** (Statistics)

**Kong, Xiangshan** (Statistics)

**Kumar, Prasanna** (Computer Science)

**Kunze, Amelia Grace** (Applied Mathematics)

**Lakerdas-Gayle, Joey Angelo** (Pure Mathematics)

**Lawrence, Paul Eli** (Combinatorics and Optimization)

**Lawrence, Steven** (Computer Science)

**Lee, Dongha** (Actuarial Science)

**Li, Zhengyu** (Computational Mathematics)

**Liu, Hanming** (Pure Mathematics)

**Lu, Jing Ya** (Actuarial Science)

**Lyu, Yue** (Computer Science)

**McIntyre, Stephanie Renee**  
(Computer Science)

**McQuay, Proticcho Liam** (Pure Mathematics)

**Mehra, Kanav** (Computer Science)

**Mudaliar, Ravi** (Pure Mathematics)

**Olaiya, Funmilayo Elizabeth**  
(Computer Science)

**Penaloza, Emiliano** (Statistics)

**Piatkowski, Steven Daniel** (Pure Mathematics)

**Pyott, Nolan Robert** (Pure Mathematics)

**Qunaibi, Sara M.** (Computer Science)

**Racine, Vincent** (Computational Mathematics)

**Raisolsadat, Seyed Amir Ali**  
(Computational Mathematics)

**Rambidis, Andrew** (Data Science)

**Regehr, Matthew Troy** (Computer Science)

**Rowe, Luke Oliver** (Computer Science)

**Salm, Veronica Catherine** (Computer Science)

**San Juan, Justin David Quitlig**  
(Computer Science)

**Sanjaya, Gian Cordana** (Pure Mathematics)

**Sarangian, Varnan** (Statistics)

**Sayutina, Alisa** (Combinatorics and Optimization)

**Sharma, Pravek** (Combinatorics and Optimization)

**Steckel, Camryn Anna**  
(Combinatorics and Optimization)

**Sun, Linyin** (Statistics)

**Takigawa, Akihiro** (Applied Mathematics)

**Van Wyk, Jacques Gideon** (Pure Mathematics)

**Waheed, Asim** (Computer Science)

**Wong, Gerrik Yin Kit** (Pure Mathematics)

**Xu, Jenny** (Pure Mathematics)

**You, Yuzhe** (Computer Science)

**Yu, Xueyao** (Computer Science)

**Zeng, Zhili** (Computer Science)

**Zhang, Kewei** (Actuarial Science)

**Zhang, Shuyang** (Computer Science)

**Zhang, Yueheng** (Computer Science)

**Zhao, Gaosen** (Computer Science)

**Zhao, Yaoyu** (Computer Science)

**Zila, Owen Thomas** (Computer Science)

**Zou, Shengbo** (Computational Mathematics)

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## MASTER OF MATHEMATICS FOR TEACHERS

Barrie, Jessica Christine  
Brandt, Charlene Sandra  
Brunswick-Werner, Rebecca  
Carter, Anthony  
Deal, Marilu Irene  
Eakin, Robert  
Ellis, David Raymond  
Elser, Andrea Melissa  
Fontaine, Laurent Gerard  
Frost, Alec James  
Gooden, Fleur Nyree  
Hamm, Allison Renae  
Head, Micheal  
Hideg, Valentina

Ibrahim, Jawad Abdusebur Yusuf  
Krawchuk, Dawn  
LeBlanc, Robin Bernard  
Lee, Jieun  
Lewis, Jeremy Donald  
Lilliman, Anna  
Marbbn, Christe  
McCowan, Daniel Alexander  
McCulloch, Amanda Lee  
Nielsen, Emily Caroline  
Poirier, Ellen Frances  
Power, Sheila Rebecca  
Qin, Yanqiu  
Rice, David Harlow  
Rose, Stephanie Lynn  
Rutt, David  
Scott, Jake Victor  
Spector-Sprague, Julie  
Tayel, Eman Mohamed  
Vakharia, Jadon  
Whitters, Kathleen Elizabeth  
Winter, Amanda Leanne  
Zhang, Xin

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## **GRADUATE CERTIFICATE**

**Ganjidoost, Ehsan** (University  
Teaching)

**Hagar, Luke Montana** (University  
Teaching)

# Undergraduate Degrees

## FACULTY OF MATHEMATICS

### BACHELOR OF COMPUTER SCIENCE

#### HONOURS PROGRAM

**Arezina, Marko** \*

**Bains, Jashandeep** Justin

**Birsan, Andre** \*

**Budathoki, Nikhil**

**Chan, Jaclyn** \*

**Chaudhry, Muhammad Fayk**  
(Business Administration and  
Computer Science) †

**Chen, Xiaoyang** †

**Cheng, Xinru** †

**Chopra, Padam** †

**Cui, Zhifeng** (Statistics Minor)

**D'Costa Ullicki, Clarisse Rani**  
(Business Administration and  
Computer Science – Combinatorics  
and Optimization Minor)

**Fenton, Oliver Blair** \*

**Froggatt, Matthew John** (Business  
Administration and Computer  
Science) \*

**Gu, Lingwei** \*

**Hogan, Luke Sondhi** (Business  
Administration and Computer  
Science)

**Hu, Wenyi** (Human-Computer  
Interaction Specialization) †

**Huang, Yipeng** (Business  
Specialization)

**Jin, Daniel Qi** †

**Khajuria, Krishna** (Business  
Administration and Computer Science)

**Kim, Sujin**

**Kundu, Sailik** \*

**Lee, Taegeon**

**Li, David** (Business Administration  
and Computer Science) \*

**Lu, Allen** †

**Luu, Kelvin** (Business Option)

**Lyu, Yanlong** \*

**Mahmoudian Bidgoli, Arash**  
(Combinatorics and Optimization  
Minor) †

**Makkar, Aviral** (Business  
Administration and Computer  
Science) †

**Mark, Lindsay Gardiner** (Business  
Administration and Computer  
Science) \*

**McGale, Christopher William**  
(Business Administration and  
Computer Science) \*

**Mithani, Sanjani** (Business  
Administration and Computer  
Science) \*

**Mohamed, Youssef Ahmed Badawi**  
(Business Administration and  
Computer Science) \*

**Ning, Youming**

**Phan, Thanh Duy** \*

**Ren, Jiatong** (Business  
Administration and Computer  
Science)

**Sandhu, Jaspreet Singh** (Business  
Administration and Computer  
Science – Software Engineering  
Specialization) \*

**Sootha, Ishani** (Business  
Administration and Computer  
Science)

**Tamber, Manveer Singh** †

**Wang, Haifan** †

**Wei, Alan Yichen** (Business  
Administration and Computer  
Science)

**Xu, Minqi** \*

**Xu, Yanqi**

**Yang, Jinhan** \*

**Zakinthinos, Hannah Elizabeth**  
(Business Administration and  
Computer Science/Human-  
Computer Interaction Option) \*

**Zangoulos, Timotheos** (Business  
Administration and Computer  
Science)

**Zdane, Ivan**

**Zhu, Xiaoyu** (Pure Mathematics  
Minor) †

#### HONOURS CO-OPERATIVE PROGRAM

**Abbatangelo, Antonio** (Business  
Administration and Computer  
Science)

**Amrithraj, Bharath** †

**Bean, Madison Michele** (Psychology  
Minor) \*

**Beech, Micah Samuel Lebold** \*

**Bhagat, Kush Ashish** †

**Bhopalsingh, Marc Ravandra**

**Bordioug, Anna** (Business  
Administration and Computer  
Science) \*

**Buratynski, Quinn Jeffrey**

**Chen, Lucas Xia** \*

**Chen, Luo Jia** (Business  
Administration and Computer  
Science) \*

**Chi, Kai Yuan** (Combinatorics and  
Optimization Minor, Computational  
Mathematics Minor) \*

**Choi, Sanghyun** \*

**Cui, Kenneth**

**Dawda, Harsh Bharat** (Business  
Administration and Computer  
Science) †

**Dhaliwal, Jusdeep Singh**

**Dimri, Tanavya** \*

**Dobreanu, Bogdan Alexandru**  
(Business Administration and  
Computer Science) \*

**Feng, David** \*

**Ge, Xinhao** †

**Gotovsky, Katherine Shaina**  
(Business Administration and  
Computer Science) \*

**Guo, Amanda** (Human-Computer  
Interaction Specialization) †

**Hadfield, Cameron Mackenzie  
Lammert**

**Hu, Pan**

**Jhanji, Abhishek**

**Jiang, Li** †

**Johnson, Gillian Leigh** (Business  
Administration and Computer  
Science) \*

**Jung, Jun Young**

**Kedia, Vedant Manoj** \*

**Khair, Snehit Parag**

**Khomasurya, Egan** (Human-  
Computer Interaction Specialization)

**Kollins, Trevor Dylan** \*

**Kothari, Arihant**

**Laakso, Troy Kelly** \*

**Lam, Matthew** (Human-Computer  
Interaction Specialization) †

\* – Distinction

† – Dean's Honours

**Lao, Darren** \*

**Lawson, Luke Isaac Campbell** †

**Lee, Hak Joon** \*

**Li, Benjamin Beiming**

**Li, Leon** \*

**Li, Yuan Rui**

**Li, Yuchen** \*

**Liang, Skylar Samson**

**Liu, Jack Yimin** †

**Liu, Yi Nuo** (Business Administration and Computer Science) \*

**Lu, Yi** (Software Engineering Specialization) †

**Manji, Jenna**

**Marin, Claudia** (Business Administration and Computer Science) †

**Meng, Yanchen** †

**Meng, Yutong** (Business Option) †

**Minhas, Haskeerat Constien** (Joint Computer Science & Joint Honours Pure Mathematics & Joint Honours Biology & Joint Honours Legal Studies) \*

**Mohebbi, Mohammad Hossein** (Human-Computer Interaction Option) †

**Nie, Haojia** (Economics Minor) †

**Ou, Kevin**

**Parikh, Dev Mehul** (Artificial Intelligence Specialization) †

**Peet, David Alexander** †

**Qiu, Kai Ming** \*

**Ramnarine, Cyanne Chalisa** \*

**Ruken, Yunis**

**Sabo, Naomy Nancy** (Business Administration and Computer Science) †

**Salman, Muhammad Sajjad**

**Sanctis, Keegan Marsh** (Economics Minor)

**Sawhney, Vardan** (Entrepreneurship Minor)

**Sebastiampillai, Johan Priyanth** \*

**Sen Majumder, Emon** (Business Administration and Computer Science) \*

**Shan, Maggie** (Business Administration and Computer Science)

**Shapiro, Oren Denis** \*

**Sharma, Ajay Kush** \*

**Tahmid, Sheikh Abrar** \*

**Tan, Jerry Xiangrui** †

**Wahyudi, Benedict Tobias Henokh** (Combinatorics and Optimization Minor) \*

**Wang, Cheng Yu** \*

**Wang, Jingcheng** (Data Science) †

**Wang, Steven Ling-Yu**

**Wong, Angie Pui Yung** (Actuarial Science Minor) †

**Yang, Yifan** (Economics Minor) †

**Yi, Frank Zhengshao** †

**Yip, Ashley Kevina** (Business Administration and Computer Science) \*

**Yu, Xin Ran** †

**Yu, Yue** (Psychology Minor) \*

**Zhang, Gan Lu** †

**Zhang, Yueran** \*

**Zhao, Yunlong** (Business Administration and Computer Science)

**Zhong, Yang** †

**Zou, Michael Y**

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## BACHELOR OF MATHEMATICS

### GENERAL PROGRAM – THREE YEAR

Agarwal, Vinayak  
Cheng, Ming  
Daley, Alicia Lottina  
Hao, Ge  
Jeong, Min Kyu  
Klotz, Jeremy  
Lu, Ruixi  
Raza, Syed Hussain  
Wang, Tong  
Wang, Zhongtian  
Xu, Yuanyuan  
Yang, Yuxin

### GENERAL CO-OPERATIVE PROGRAM – THREE YEAR

Babar, Muhammad Haseeb  
Blackman, Nekeisa Kizzie

### HONOURS PROGRAM

**Ahuja, Kanav** (Business Administration and Mathematics – Computing Minor)

**Angeline, Veronika Christina** (Business Administration and Mathematics) \*

**Boccalon, David Adam** (Mathematical Studies) \*

**Buganan Soares, Chloe** (Business Administration and Mathematics – Computing Minor) \*

**Chang, Yixin** (Computer Science – Statistics Minor) \*

**Chanprasit, Napassorn** (Business Administration and Mathematics – Combinatorics and Optimization Minor, Statistics Minor) \*

**Chen, Yuxuan** (Mathematics/Business Administration)

**Deng, Xi** (Statistics – Computational Mathematics Minor)

**Di, Yixuan** (Statistics & Joint Honours Psychology)

**Diana, Clarissa** (Actuarial Science – Predictive Analytics Specialization & Honours Statistics)

**Doshi, Dipal** (Business Administration and Mathematics)

**Evelyne, Chelsea** (Combinatorics and Optimization – Statistics Minor) †

**Fajar, Fasiha** (Computational Mathematics – Computing Minor)

**Fu, Xingyu** (Statistics – Actuarial Science Minor)

**Ge, Zihao** (Applied Mathematics – Computing Minor)

**Guo, Rui Cheng** (Mathematics/Financial Analysis & Risk Management –Chartered Financial Analyst Specialization)

**Han, Yihua** (Statistics)

**Hofer, Daniel Max** (Business Administration and Mathematics & Honours Statistics) †

**Howell, James Robert Anthony** (Pure Mathematics – Physics Minor) \*

**Huang, Shaoyi** (Statistics – Computational Mathematics Minor)

**Huang, Zhe** (Actuarial Science & Honours Statistics) †

**Ivanovic, Ognjen** (Mathematical Studies)

**Ji, Tianjiao** (Actuarial Science & Honours Statistics) \*

**Jia, Jingyi** (Statistics – Applied Mathematics Minor)

**Jiang, Qi** (Actuarial Science & Honours Statistics)

**Kennery, Kyle William** (Business Administration and Mathematics & Honours Actuarial Science) \*

**Kowalski Kutz, Pablo** (Statistics) \*

**Le, Quynh Anh** (Business Administration and Mathematics & Honours Actuarial Science) †

**Li, Yichen** (Applied Mathematics – Economics Specialization & Honours Combinatorics and Optimization & Honours Computational Mathematics)

**Li, Zhenrong** (Mathematics/Business Administration)

**Lin, Jiali** (Statistics – Economics Minor) \*

**Lin, Mingxin** (Business Administration and Mathematics & Honours Statistics)

\* – Distinction

† – Dean's Honours

**Lin, Zheng** (Applied Mathematics – Pure Mathematics Minor)

**Lin, Ziye** (Statistics) †

**Liu, Dylan Tet Chiang** (Actuarial Science – Finance Specialization & Honours Statistics)

**Liu, Leon Yi** (Computer Science & Honours Combinatorics and Optimization) †

**Liu, Yonghui** (Mathematical Studies – Statistics Minor) \*

**Lomas Pozo, Marcos David** (Joint Pure Mathematics & Joint Honours Combinatorics and Optimization)

**Lu, Shiming** (Mathematical Economics – Statistics Minor)

**March, Omari** (Mathematical Studies – Computational Mathematics Minor)

**McIlwraith, Benjamin Christopher** (Business Administration and Mathematics – Actuarial Science Minor) \*

**Mehta, Janaki Arjun** (Statistics – Computing Minor)

**Milne, Andrew** (Actuarial Science & Honours Statistics) \*

**Nagpal, Pranay** (Mathematical Studies)

**Nguyen, Nicole** (Business Administration and Mathematics) \*

**Ni, Yunong** (Applied Mathematics – Computational Mathematics Minor)

**Nini, Matthew David** (Mathematics/Business Administration)

**O’Neil, James Owen** (Mathematics/Business Administration) \*

**Ortega, Leonardo Antonio** (Pure Mathematics)

**Paeng, Kihwan** (Statistics)

**Paray, Saveeta Devikaa** (Statistics – Actuarial Science Minor)

**Park, Chan** (Statistics – Computing Minor)

**Peng, Chong** (Mathematics/Financial Analysis & Risk Management –Chartered Financial Analyst Specialization) \*

**Petolescu, Julia Diana** (Business Administration and Mathematics – Statistics Minor, Computing Minor)

**Poetker, Sawyer Jacob** (Statistics – Computing Minor) \*

**Qin, Ziqi** (Mathematical Studies – Statistics Minor)

**Rankin, Connor Frank** (Mathematical Studies)

**Seshaprasad, Sripad** (Mathematical Studies – Business Specialization)

**Shi, Bowen** (Business Administration and Mathematics & Honours Statistics)

**Sritharan, Saran** (Mathematical Studies – Statistics Minor)

**Steward, Winston Apollo** (Business Administration and Mathematics) \*

**Su, Zhengjie** (Mathematical Studies – Computing Minor, Statistics Minor)

**Subramoniam, Narayan** (Business Administration and Mathematics – Combinatorics and Optimization Minor) †

**Sun, Jiayi** (Mathematical Studies – International Trade Minor)

**Sung, Isaac Man Hon** (Statistics) \*

**Tang, Bradley Tianyou** (Statistics & Honours Combinatorics and Optimization) †

**Tatsu, Madeline Kimiko** (Mathematical Studies – Psychology Minor)

**Tong, Huici** (Actuarial Science & Honours Statistics)

**Wang, Herui** (Mathematical Studies – Computational Mathematics Minor, Statistics Minor) \*

**Wang, Jialong** (Statistics) \*

**Wang, Jinghui** (Statistics)

**Wang, Siyu** (Mathematics/Financial Analysis & Risk Management – Chartered Financial Analyst Specialization)

**Wang, Xu** (Combinatorics and Optimization)

**Wang, Yangfan** (Statistics & Honours Computational Mathematics) \*

**Wang, Zekun** (Computer Science) \*

**Wen, Wen** (Mathematical Studies – Economic Theory Minor, Computing Minor)

**Wu, Ruimin** (Business Administration and Mathematics & Honours Statistics)

**Wu, Sonny Zhengran** (Computational Mathematics)

**Xu, Xiwei** (Combinatorics and Optimization & Joint Honours Pure Mathematics) †

**Yang, Like** (Applied Mathematics – Statistics Minor)

**Yang, Yingyin** (Mathematics/Business Administration) \*

**Yao, Muzi** (Actuarial Science & Honours Statistics) \*

**Yeh, George Yichen** (Combinatorics and Optimization – Computing Minor)

**Zakharov, Gleb** (Business Administration and Mathematics)

**Zeng, Zixiao** (Applied Mathematics with Scientific Computing)

**Zhai, Minghao** (Mathematical Finance & Honours Statistics – Pure Mathematics Minor) \*

**Zhang, Ruixin** (Actuarial Science & Honours Statistics) \*

**Zhang, Yuchen** (Statistics) \*

**Zhang, Yuquan** (Statistics)

**Zhao, Haoyuan** (Applied Mathematics) \*

**Zhao, Xing** (Statistics)

**Zhou, Rongtao** (Statistics)

**Zhou, Xiao Tian** (Mathematical Finance) †

**Zhu, Qiansheng** (Actuarial Science & Honours Statistics)

**Zhu, Yanyu** (Statistics)

**Zou, Manshu** (Statistics)

## HONOURS CO-OPERATIVE PROGRAM

**Abdullah, Fatima Tuzzehra** (Computational Mathematics – Computing Minor)

**Bajaj, Sidharth** (Computer Science & Honours Statistics) \*

**Bhandal, Harleen Kaur** (Actuarial Science – Predictive Analytics Specialization & Honours Statistics – Political Science Minor) \*

**Biju, Abhiraam** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization – Economics Minor) \*

**Bishop, Matthew Luke** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization & Honours Actuarial Science) \*

**Carreon, Jude Angelo Crisostomo** (Statistics – Computing Minor)

**Chan, Ethan** (Business Administration and Mathematics) \*

**Chan, Yan Yeung Justin** (Actuarial Science & Honours Statistics – Economics Minor)

**Chandiramani, Komal** (Statistics – Computing Minor) \*

**Chay Chor Cheong, Andrew** (Statistics – Psychology Minor, Actuarial Science Minor, Computing Minor) \*

**CHEN, Jiaqi** (Actuarial Science & Honours Statistics) †

**Chen, Ruoru** (Mathematical Finance – Statistics Minor) †

**Cheng, Gong** (Statistics)

\* – Distinction

† – Dean’s Honours

- CHOUDHARY, AASHI** (Statistics – Actuarial Science Minor)
- Dai, Yining** (Statistics)
- Deng, Haoyun** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization) \*
- DeVrieze, Cassidy Grace** (Statistics)
- Dhanasekharan, Aditya** (Business Administration and Mathematics – Statistics Minor, Computing Minor) \*
- Douangprachanh, Branden** (Business Administration and Mathematics)
- Du, Yipeng** (Computational Mathematics & Honours Statistics)
- Esipova, Maria** (Pure Mathematics & Honours Combinatorics and Optimization) †
- Fan, Sijia** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization) \*
- Farrand, Colleen Grant Langley** (Computational Mathematics)
- George, Arpita Anna** (Mathematical Economics – Statistics Minor)
- Ghafouri Varzaneh, Sara** (Business Administration and Mathematics)
- Ghotra, Harkaran Singh** (Actuarial Science)
- Gookool, Lauralee Elizabeth** (Computational Mathematics & Honours Statistics – Computing Minor) \*
- He, Jingxuan** (Mathematics/Financial Analysis & Risk Management-Professional Risk Management Specialization – Statistics Minor) †
- He, Rona** (Business Administration and Mathematics – Statistics Minor) †
- He, Yitian** (Business Administration and Mathematics & Honours Statistics) \*
- Hill, Emily Victoria** (Mathematics/Teaching) \*
- Holowchuk, Troy Stephen** (Actuarial Science & Honours Statistics) \*
- Hong, Cindy Jinhwa** (Business Administration and Mathematics & Honours Statistics) \*
- Hong, Shi Ze** (Pure Mathematics & Honours Combinatorics and Optimization) \*
- Hossain, M Towseef** (Combinatorics and Optimization – Computing Minor)
- Hu, Jennifer Xiaoshan** (Actuarial Science & Honours Statistics – Computing Minor) †
- Hua, Chenyan** (Actuarial Science & Honours Statistics) \*
- Huang, Alick** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization – Statistics Minor) \*
- Huang, Jamie** (Statistics)
- Huang, WenKai** (Mathematics/Financial Analysis & Risk Management-Professional Risk Management Specialization – Statistics Minor)
- Hussain, Armaan Arafat** (Applied Mathematics with Scientific Computing – Statistics Minor) \*
- Huston, Sophia Mary Lorana** (Mathematical Studies – History Minor)
- Hwong, Manfred Chow** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization)
- Ibrahim, Muhammad** (Business Administration and Mathematics)
- Ishwanthlal, Thushar** (Mathematical Economics)
- Jeetun, Sidarshinee** (Mathematics/Business Administration)
- Kuan, Mercedes Teresa** (Mathematics/Financial Analysis & Risk Management-Professional Risk Management Specialization & Joint Honours Applied Mathematics – Computing Minor)
- Kundi, Ravneetkaran Singh** (Business Administration and Mathematics)
- Lam, Darius Tzar-yan** (Business Administration and Mathematics – Statistics Minor)
- Law, Allissa Hui Yi** (Business Administration and Mathematics & Honours Actuarial Science & Joint Honours Statistics) †
- Li, Jiayi** (Actuarial Science & Honours Statistics) †
- Li, Miranda** (Statistics)
- Li, Mitchell Tze-Hei** (Mathematics/Business Administration – Computing Minor) \*
- Liao, Wei** (Actuarial Science & Honours Statistics) \*
- Lim, Wei Soong** (Actuarial Science – Predictive Analytics Specialization & Honours Statistics)
- Lin, Xinyu** (Mathematical Studies – Business Specialization)
- Liu, Jiang Wei** (Statistics – Computational Mathematics Minor)
- Lohan, Sufie** (Business Administration and Mathematics)
- Lu, Chen Pei** (Business Administration and Mathematics – Computing Minor, Statistics Minor) \*
- Ma, Haoyu** (Statistics)
- Ma, Zhen Yang** (Business Administration and Mathematics & Honours Statistics) \*
- Mao, Liting** (Business Administration and Mathematics & Honours Statistics) †
- Marr, Beau Steele** (Business Administration and Mathematics & Honours Statistics) \*
- McIntosh, Adam John** (Business Administration and Mathematics & Honours Actuarial Science & Honours Statistics) †
- Miler, Boris Marko** (Computational Mathematics – Statistics Minor) \*
- Murugesan, Ramana** (Mathematical Finance) †
- Nguyen, Khang Hoang** (Statistics)
- O’Farrell, Ethan** (Data Science) †
- Ong, Albert** (Statistics – Combinatorics and Optimization Minor) \*
- Passi, Siddhant** (Statistics – Computing Minor)
- Patel, Nichollesh** (Business Administration and Mathematics)
- Patel, Rikin Dhirenkumar** (Mathematical Studies – Pure Mathematics Minor, Computing Minor)
- Pozzebon, Hunter Alexandra Ruby** (Biostatistics/Health Informatics Option) \*
- Qin, Wei Wen** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization)
- Rolston, Duncan John** (Mathematics/Teaching)
- Roy, Nigel Thomas** (Computational Mathematics – Combinatorics and Optimization Minor)
- Ryan, Ahnaf Tahmid** (Statistics & Honours Computational Mathematics) \*
- Saha, Priyonto** (Biostatistics & Honours Computational Mathematics & Honours Combinatorics and Optimization) \*
- Scholefield, Mitchell Ryan** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization)
- Singh, Harsaroop** (Computational Mathematics – Statistics Minor, Computing Minor) \*

\* – Distinction  
† – Dean’s Honours

**Tan, Willson Kwei Wah** (Mathematics/Business Administration)

**Terpstra, Daria Hannah** (Business Administration and Mathematics) \*

**Thiessen, Trevor Brendon** (Actuarial Science & Joint Honours Statistics)

**Tian, Yichen** (Statistics)

**Vandewetering, Josiah Joshua** (Mathematical Physics)

**Walcarius, Brayden Edgar** (Business Administration and Mathematics & Honours Actuarial Science & Honours Statistics) †

**Wang, Run Peng** (Actuarial Science & Honours Statistics) †

**Wang, Siqin** (Mathematical Studies – Combinatorics and Optimization Minor, Cognitive Science Minor)

**Wang, Yang Min** (Mathematics-Chartered Professional Accountancy – Computing Minor) \*

**Wang, Yinan** (Actuarial Science & Honours Statistics)

**Watchorn, Logan Wyatt** (Mathematical Studies)

**Wong, Natalie Laura** (Business Administration and Mathematics – Computing Minor) \*

**Wu, Chenyue** (Business Administration and Mathematics & Honours Statistics – Actuarial Science Minor) †

**Xu, Yihao** (Computer Science – Artificial Intelligence Specialization – Computational Mathematics Minor, Combinatorics and Optimization Minor) †

**Yang, Ke Chen** (Computer Science & Honours Combinatorics and Optimization) †

**Yang, Zhou** (Computational Mathematics – Statistics Minor) \*

**Yao, Xiaolin** (Statistics)

**Yuchi, Lichuan** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization)

**Zhang, Boyu** (Business Administration and Mathematics & Honours Statistics – Combinatorics and Optimization Minor) \*

**Zhang, Dingchen** (Combinatorics and Optimization & Joint Honours Pure Mathematics)

**Zhang, Xiaoya** (Business Administration and Mathematics & Honours Actuarial Science – Statistics Minor) \*

**Zhang, You** (Actuarial Science & Honours Statistics) \*

**Zhang, Zhiqi** (Mathematics/Chartered Professional Accountancy – Finance Option – French Minor)

**Zhao, Wei** (Mathematics/Financial Analysis & Risk Management-Professional Risk Management Specialization & Honours Statistics)

**Zhao, Xin Yue** (Mathematics/Financial Analysis & Risk Management-Chartered Financial Analyst Specialization – Statistics Minor) \*

**Zhao, Yu Yang** (Computer Science & Honours Statistics)

**Zheng, Shutao** (Computational Mathematics – Combinatorics and Optimization Minor, Computing Minor)

**Zhou, Haoze** (Data Science) \*

**Zhu, Lingxi** (Business Administration and Mathematics & Honours Statistics) †

---

## BACHELOR OF SOFTWARE ENGINEERING

### HONOURS CO-OPERATIVE PROGRAM

Chai, Chen \*

He, Zi Ming \*

Hosseini, Sara \*

McGregor, Benn Allen \*

Wen, William Yihan \*†

---

## DIPLOMA IN CHINESE LANGUAGE II

Chen, Lucas Xia

---

## DIPLOMA IN ENGLISH FOR MULTILINGUAL SPEAKERS

Lomas Pozo, Marcos David

---

## DIPLOMA IN FRENCH LANGUAGE I

Beech, Micah Samuel Lebold

Zhao, Xing

---

## DIPLOMA IN GERMAN LANGUAGE

Bordioug, Anna

---

## DIPLOMA IN JAPANESE LANGUAGE I

Sun, Jiayi

---

## CERTIFICATE IN EXPERIENTIAL EDUCATION

Fajar, Fasiha

Lin, Jiali

\* – Distinction

† – Dean's Honours

# *Outstanding Achievements*

FACULTY OF MATHEMATICS

---

## **MEDALS AND AWARDS**

### **K.D. FRYER GOLD MEDAL**

**Academic excellence and  
good citizenship**

David Khazzam

### **FINALIST FOR THE UNIVERSITY OF WATERLOO ALUMNI GOLD MEDAL**

**Doctoral**

Cameron Francis Meaney

**Master's**

Mahbod Majid (Spring 2023)





# AFTERNOON CEREMONY

Degrees and diplomas from:  
**UNIVERSITY OF WATERLOO**  
**FACULTY OF HEALTH**  
**FACULTY OF SCIENCE**

# Graduate Degrees

## FACULTY OF HEALTH

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### DOCTOR OF PHILOSOPHY

**Chowdhury, Diya** (Public Health Sciences – Aging, Health and Well-Being)

“Healthcare Experiences of South Asian Older Adults in Canada: Aging Well, Engagement and Access”

**Davari Dowlatabadi, Saeideh** (Health Studies and Gerontology)

“Does Psychosocial Stress Experienced at Different Points Across the Rat Lifespan Cause Sex-Specific Changes in Spatial Learning and Memory and Plasticity-Related Proteins?”

**Fu, Ying** (Recreation and Leisure Studies)

“Communal Orientation and Employee Well-Being: Examining the Mediating Roles of Positive Relational Communication and Perceptions of Customer Interactions”

**Koechl, Jill Marie** (Kinesiology – Aging, Health and Well-Being)  
“Exploring End-Of-Life Nutrition Care for Residents of Long-Term Care: A Retrospective Chart View”

**Mangan, Gary** (Kinesiology)  
“Individuality in Balance Control: Using Conventional Analysis and Machine Learning Approaches to Reveal Person-Specific Difference in Standing Balance Control”

**Packull-McCormick, Sara Rachel** (Public Health Sciences)  
“Fish Consumption and Mercury Exposures Among Sub-Populations in Canada Through Targeted Biomonitoring: Results From Dene/ Métis Communities of the Northwest Territories and a Maternal-Infant Cohort Study”

**Velmovitsky, Pedro Elkind** (Public Health Sciences)

“Use of Smart Technology Tools for Supporting Public Health Surveillance: From Development of a Mobile Health Platform to Application in Stress Prediction”

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### MASTER OF ARTS

**Cheeseman, Emma Margaret** (Recreation and Leisure Studies)

**Cho, Trisha Sydney Chips** (Recreation and Leisure Studies)

**Coutts, Natalie Beth** (Recreation and Leisure Studies)

**Daly, Kathryn Elizabeth** (Recreation and Leisure Studies)

**Gibeau, Alexx Katherine** (Recreation and Leisure Studies)

**Gurbuz, Ayse Nur** (Recreation and Leisure Studies)

**Harris, Brooklyn** (Recreation and Leisure Studies)

**Llewellyn, Joshua John** (Recreation and Leisure Studies)

**Lynch, Isabel Lauren** (Recreation and Leisure Studies)

**Morton, Mackenzie Anne** (Recreation and Leisure Studies)

**Nelson, Christian** (Recreation and Leisure Studies)

**Norris, Meryl Anne** (Recreation and Leisure Studies)

**Sinamenye, Mamadou** (Recreation and Leisure Studies)

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### MASTER OF HEALTH EVALUATION

Burke-Murphy, Emerald  
Colter, Lorretta Margaret  
Jari, Shora  
Van Bommel, Mia Christiane  
Voll, Jessica

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### MASTER OF HEALTH INFORMATICS

Park, Ben Joonyeon  
Suarez Angel, Yadira

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### MASTER OF KINESIOLOGY

Ellerker-Rigonan, Jaxson Alexander  
Khalil  
Li, Yuanhe

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### MASTER OF PUBLIC HEALTH

Abdalla, Nora S.  
Adefidipe, Olubukola Grace  
Almasri, Sarah  
Ananthamurugan, Abinaya  
Anderson, Callie  
Arora, Ravia  
Bilimoria, Dwarti Ashvin  
Bolumbe Nangamu, Benedicte  
Boubaker, Anis  
Boulton-Chaykowski, Leah

Busby, Terrena  
Chandraraj, Arthana  
Chittle, Andrea Diane  
Eales, Erin  
Fan, Shenbei  
Feore, Anna Patricia  
Ferrante, Christina  
Ford, David  
Galloway, Heather Diane  
Hamidi, Malalai Wardak  
Hurst, Denia N'Keyah  
Jessup, Kelsey Jeannie-Louise  
Kebebu, Meron Erdachew  
Klawunn, Jessica  
Lee, Petra Wai Cee  
Lucier, Allaina Suzanne  
Mascarenhas, Samara Liane  
Maultsaid, Claire  
Nahwegahbow, Amy  
Nasuti, Gabriella  
Nithiyanantham, Nithusa  
Norman, Selena Nikita  
Obaseki, Izevbokun Lisa  
Odimegwu, Brenda Nkolichukwu  
Pant, Shweta  
Ripley, Amber Joan Lillian  
Sabra, Iman  
Safronava, Olga  
Sarker, Saadia Islam  
Schaff, Ashley Ann Nicole  
Scott, Emma Jayne  
Senthilnathan, Dayapari  
Siddiqi, Aneesah  
Silva, Dinuka Sanduni  
Singh, Hardeesh  
St Pierre, Samantha  
Williams, Chelsea Brianna  
Xu, Xiaomeng  
Yang, LU TING  
Yao, Anlan Lan  
Yoo, Kevin Kunwoo  
Zaidi, Rida

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### MASTER OF SCIENCE

**Athaide, Chloe Eve** (Kinesiology)

**Bae, Junhan** (Kinesiology)

**Bhullar, Sukirat Kaur** (Kinesiology)

**Billawala, Alkarim** (Public Health Sciences)

**Bonifacio, Charithe Joanne** (Public Health Sciences)

**Chaston, Andrew William** (Kinesiology)

**Cole, Brooklyn Hope** (Kinesiology)

**Dhuga, Gurkiran Kaur** (Public Health Sciences)

**Gevaert, Victoria Lynn Rita** (Public Health Sciences)  
**Gosse, Lauren Claire** (Public Health Sciences)  
**Ho, Daphne Chiching** (Kinesiology)  
**Hutchuk, Nicole** (Public Health Sciences)  
**Ilic, Antonela** (Public Health Sciences)  
**Jiang, Evelyn Yiqing** (Kinesiology)  
**Lam, Fergus Tsun Hin** (Kinesiology)  
**Lester, Laura Elizabeth** (Kinesiology)  
**Levi, Leila Bernardino** (Kinesiology)  
**Lewis, Diedron** (Public Health Sciences)  
**Madjedi, Cyrus** (Kinesiology)  
**Malone, Alexander Lawrence** (Kinesiology)  
**McDonald, Benjamin Selwyn** (Kinesiology)  
**Pavlinich, David Michael** (Kinesiology)  
**Pourbabadi, Daniel** (Kinesiology)  
**Sanghavi, Nidhi** (Kinesiology)  
**Sharp, Meghan Elizabeth** (Kinesiology)  
**Thompson, Aaron James** (Kinesiology)  
**Tondat, Alyssa Marie** (Kinesiology)  
**Ugaya Mazza, Larissa** (Public Health Sciences)  
**Zafar, Abdullah** (Kinesiology)

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## MASTER OF SOCIAL WORK

Barker-Pencil, Swayne  
Beeler, Nathalie Manuela  
Burnell, Leah Carol Almoza  
Challoner, Abby Jean  
Chan, Pui Ting  
Cooke, Lisa Marie  
Cooper, Jennifer Christine  
Crocker, Julisa Nicole Steinson  
Doan Nguyen, Lisa Kim  
Duckett, Meaghan Lee Beryl  
Eedens, Paige Victoria  
Engel, Nicole  
Enserink, Katrina Maria  
Esselink, Emma Jane  
Farnsworth, Deborah Sarah  
Francis, Alicia Katherine  
Galambos, Jillian  
Gilmour, Sarah Audrey  
Hartwig, Hillary  
Havenga, Jeff A.  
Henderson, Christopher William Patrick  
House, Erica Anne  
Hunt, Lavern Ann-Marie  
Hutchison, Jodie Renee  
Jaipersaud, Caitlyn  
James, Brianne Elizabeth  
James, Rahul  
Johnson, Kanisha Suzanna

Jones, Catherine Anne  
Kapteyn, Kelsey Marie  
Kelly, Erin Marie  
Kinna, Julia Michelle  
Kumbah, Atehawung Ophilia  
Kurtz, Nicole Christina  
Kutney, Janice Monica  
Kuwahara, Midori  
Lafortune, Ashley Nicole  
Lane, Amanda  
Lara, Odaly  
LeBlanc, Richelle  
Ledda, Emily  
Lu, Linda  
Lymburner, Cloey Patricia  
MacIntyre, Glory  
MacKinnon, Sarah-Kate Kathleen  
Maguire, Eugena  
Masood, Adam  
McCarrel, Sarah Rose  
McGowan, Laura  
McInnis, Alana  
McIntosh, Kenneth P.  
McKenzie, Paige  
McShane, Valerie  
Meagher, Christine M.  
Midence, Karina Maria  
Mirigello, Martina Marie  
Molloy Butt, Cindy Anne  
Mui, Irving Younglan  
Nkansah-Okoree, Brenda Ofosuah  
Noddin, Allyson  
Norman, Melanie Pamela  
Ogunrewo, Feyisola Oluwaseun  
Okabe, Sydney Oleena Sears  
O'Shea, Allan Arthur Michael  
Otio, Oluwatoyin  
Pabia, Mica Richelle  
Paradela, Nicolette Miller  
Patton, Kayla Catherine  
Pearson, Bethany  
Philbert, Tyheriah  
Piera, Samuel Hau  
Pirnie, Alexandra Sue Ellen  
Read, Samantha Elsie Linda  
Regnier, Michelle Celeste  
Reid, Nicole Julia  
Reid, Richelle Allene  
Ross, Heather-Anne Lynn  
Satheesan, Soumya  
Sceppacerqua, Branda Marie  
Shepperd, Anita Marie  
Silva, Shannon Kathleen  
Slack, Alisha Marie  
Smith, Kaleigh Josee  
Spurrell, Megan Elizabeth  
Stevenson, Robyn Marie  
Swanson, Janessa Marie  
Syed, Summaya Neelam  
Taylor, Mardi Frances  
Terpstra, Kate Elizabeth  
Tetrault, Chelsea Megan  
Thakidiyil, Thara Roselin  
Thornton, Claire Elizabeth  
Toombs, Mara A.  
Tresidder, Courtney Marie  
Urquhart, Brianna Wendy  
Voore, Lauren Sharon  
Waddleton, Alisha Nicole  
Wagstaff, Alyshia

Walsh, Maria  
Watkins, Andre Christopher  
Williams, Janelle Catherine  
WONG, KA WAI  
Wood, Megan Elizabeth  
Zinn-Schadenberg, Jennifer Nicole

# Undergraduate Degrees

## FACULTY OF HEALTH

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### BACHELOR OF ARTS

#### GENERAL PROGRAM – FOUR YEAR

**Iluya, Muyang Kacik Arum**  
(Recreation and Leisure Studies)

#### HONOURS PROGRAM

**Bernoski, Victoria Diane** (Recreation and Leisure Studies – Social Development Studies Minor) †

**Bondy, Kaitlin Paige Mildred**  
(Therapeutic Recreation)

**Brady, Sarah Kathleen** (Therapeutic Recreation)

**Brintnell, Liam** (Recreation and Sport Business) \*

**Budimir, Anita** (Recreation and Sport Business) †

**Chan, Jenny See-Yan** (Therapeutic Recreation) †

**Chung, Matthew Shing Hei**  
(Recreation and Leisure Studies) †

**Crawley, Katelyn Ashley**  
(Therapeutic Recreation)

**Cromack, Courtney Rose-Mary**  
(Therapeutic Recreation)

**DiGiambattista, Isabella Regina**  
(Recreation and Leisure Studies) \*

**English, Jacob William** (Recreation and Sport Business)

**Freeman-Braganca, Naomi Gabrielle**  
(Therapeutic Recreation) †

**Gamit, Marc** (Therapeutic Recreation)

**Gunaseelan, Abishake Rick**  
(Therapeutic Recreation)

**Hare, Nathan Gary** (Recreation and Sport Business – Event Management Minor)

**James, Garrett Peter Gordon**  
(Recreation and Sport Business)

**Lim, Valen Lok Him** (Recreation and Sport Business – Event Management Minor)

**Martino, Andrea Maureen**  
(Therapeutic Recreation) \*

**Mastronardi, Ashlin Brooke**  
(Therapeutic Recreation/Aging Studies Option)

**Mohamed, Steve Shivaun**  
(Recreation and Sport Business) †

**Palmer, Sean Robert** (Recreation and Sport Business) \*

**Quibell, Story Grace** (Therapeutic Recreation – Psychology Minor) \*

**Scheffler, Leah Ruby** (Therapeutic Recreation – Psychology Minor) \*

**Sima, Robert** (Recreation and Sport Business)

**Smith, Lyndyl Abdon** (Therapeutic Recreation – Social Development Studies Minor) \*

**Tucci, Jenna Marie** (Therapeutic Recreation – Human Resources Management Minor) †

**Vandenneuvel, William Henry**  
(Recreation and Leisure Studies) \*

**Wang, Yaxin** (Tourism Development – Co-operative Program) †

**Weber, Hannah Ann** (Therapeutic Recreation/Aging Studies Option) †

**Williams, Leah Mae** (Therapeutic Recreation) †

**Zorbas, Perry Christopher**  
(Recreation and Sport Business)

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### BACHELOR OF PUBLIC HEALTH

#### HONOURS PROGRAM

**Cooper, Malayka Rose** (Co-operative Program) †

**Das, Hridita** (Addictions, Mental Health and Policy Minor – Co-operative Program) \*

**Dhamrait, Sukhmani Kaur** \*

**Huh, Jieun** (Psychology Minor) †

**Shaikh, Aleeza Hussain** †

**Sisodiya, Karmrajsinh Harendrasinh**  
(Addictions, Mental Health and Policy Minor)

**Tam, Tia Mei Shan**

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### BACHELOR OF SCIENCE

#### GENERAL PROGRAM – FOUR YEAR

**Huang, Selena** (General Kinesiology)

**Mesgari, Ghazal** (General Kinesiology)

**Xing, Wen Hao** (General Kinesiology)

### HONOURS PROGRAM

**Badri, Umar** (Kinesiology)

**Benipal, Gurtej Singh** (Kinesiology – Rehabilitation Sciences Specialization – Co-operative Program) \*

**Buragina, Mirela Alysse** (Kinesiology – Co-operative Program) \*

**Cabral, Pearl Grace** (Kinesiology – Co-operative Program) \*

**Castano Aristizabal, Andrea**  
(Health Studies – Human Resources Management Minor)

**Chartier, Hannah Gillian**  
(Kinesiology – Co-operative Program)

**Chodoriwsky, Matthew Roman John**  
(Kinesiology) \*

**Chou, Yu-Hsuan** (Health Studies)

**Dinh, Christopher** (Health Sciences) †

**Do, Kevin Trong** (Kinesiology – Medical Physiology Minor – Co-operative Program)

**Elasfar, Salma** (Kinesiology – Medical Physiology Minor – Co-operative Program) †

**Gies, Lauren** (Kinesiology – Rehabilitation Sciences Specialization – Co-operative Program)

**Goodman, Brywn Meredith Guo Min**  
(Kinesiology)

**Hall, Rowan Kearney** (Kinesiology) \*

**Herman, Devin Grogan** (Kinesiology) †

**Jayaseelan, Virosh** (Kinesiology)

**Kamra, Hersh Luv** (Kinesiology – Co-operative Program)

**Kaspari, Patrick Alexander**  
(Kinesiology)

**Kirupakaran, Mithuna** (Health Sciences – Human Resources Management Minor)

**Kovacs, Attila** (Health Studies – Co-operative Program) †

**Kumar, Anmol** (Kinesiology)

**Lam, Mitchell Aaron** (Health Studies – Co-operative Program) †

**Liu, Lam Fung** (Health Studies – Management Studies Minor) \*

**Majid, Raiyan** (Health Studies)

\* – Distinction

† – Dean's Honours

**Malhotra, Natasha Lynn Henhoeffer**

(Kinesiology – Psychology Minor –  
Co-operative Program) \*

**Marin, Ana Paola** (Kinesiology –  
Rehabilitation Sciences  
Specialization)

**Martens, Sydney Anne** (Kinesiology) \*

**Milton, Lauren Taylor Elizabeth**

(Health Studies – Co-operative  
Program) †

**Nayee, Pranav Yogesh** (Kinesiology)

**Overeem, Kaitlyn** (Kinesiology –  
Co-operative Program)

**Parent, Michael Adam** (Kinesiology –  
Rehabilitation Sciences  
Specialization) \*

**Parmar, Gurvir Singh** (Kinesiology)

**Persad, Brittney Caroline** (Health  
Sciences – Gerontology Minor –  
Co-operative Program)

**Riel-Walker, Miles Barrington**

(Health Studies) †

**Shah, Tej Ankur** (Health Studies/  
Aging Studies Option) \*

**Small, Alexandra Mariah**  
(Kinesiology – Co-operative  
Program)

**Swerhun, Chris Arvi** (Health Studies)

**Taylor, Jude Lachlan** (Kinesiology)

**Therrien, Alexandre Vital Nelson**

(Kinesiology – Rehabilitation  
Sciences Specialization) \*

**Wu, Robin** (Kinesiology)

**Ying, Tsz Yui** (Kinesiology –  
Ergonomics and Injury Prevention  
Minor)

**Zhao, Kelsey Ying-xiao** (Health  
Sciences – Co-operative Program) †

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**DIPLOMA IN GERONTOLOGY**

Chung, Matthew Shing Hei  
Martino, Andrea Maureen

\* – Distinction

† – Dean's Honours

# Graduate Degrees

## FACULTY OF SCIENCE

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### DOCTOR OF PHILOSOPHY

**Amoura, Yuba** (Physics)

“Cosmology with Cluster Structural Properties”

**Barnett, Jacob** (Physics)

“Locality and Exceptional Points in Pseudo-Hermitian Physics”

**Bramman, Brendan** (Physics -

Quantum Information)

“Ablation Loading and Qudit Measurements with Barium Ions”

**Chen, Hong Zhe** (Physics)

“The Black Hole Information Paradox in a Brane World”

**Corman, Maxence Lorraine Pierre**

(Physics)

“Black Holes in Cosmological Spacetimes and Alternative Theories of Gravity”

**Davis, Jack Guy** (Physics - Quantum

Information)

“Wigner Negativity on the Sphere”

**Gallock Yoshimura, Kensuke**

(Physics)

“Correlation Harvesting in the Presence of Unruh and Hawking Effects”

**Georgiev, Boris** (Physics)

“Using Black Hole Environments as Laboratories for Testing Accretion and Gravity”

**Hampton, Tyler Barbee** (Earth

Sciences - Water)

“Forested Watersheds and Water Supply: Exploring Effects of Wildfires, Silviculture, and Climate Change on Downstream Waters”

**Hibat Allah, Mohamed** (Physics)

“Exploring Many-Body Physics with Recurrent Neural Networks”

**Ieritano, Christian** (Chemistry)

“Towards Understanding Differential Ion Mobility and its Applications in Analytical and Medicinal Chemistry”

**Jia, Ding** (Physics)

“Toward a Theory of Everything”

**Jin, Yutong** (Vision Science)

“The Phenotype of Tear Neutrophils and Their Role in Ocular Homeostasis and Inflammation”

**Kulp, Justin Gordon James** (Physics)

“Topological Manipulations of Quantum Field Theories”

**La, Volition** (Chemistry)

“Selection and Characterization of an Aptamer to a Thiazole Orange Derivative for Use in a Fluorescence-Based Biosensor”

**Lall, Gurmeet Kaur** (Pharmacy)

“Design and Characterization of Various Lipid, Polymer, and Gemini-Surfactant - Based Vectors and DNA as Non-Viral Delivery Systems for Gene Therapy Applications”

**Lin, Junan** (Physics - Quantum

Information)

“Representation, Characterization, and Mitigation of Noise in Quantum Processors”

**Liu, Yutong** (Chemistry)

“Defect Investigation on Hematite Photoanodes”

**Low, Pei Jiang** (Physics)

“Control and Readout of High-Dimensional Trapped Ion Qudits”

**Luo, Ning** (Earth Sciences)

“Hydraulic Tomography Analyses of Different Datasets for Subsurface Heterogeneity Characterization at Various Scales”

**Ma, Ruochen** (Physics)

“Symmetry and Topology in Disordered Systems”

**Medvedeva, Kseniia** (Chemistry)

“Electroorganic CO<sub>2</sub> Fixation Via Paired Electrolysis and Nanoscale Electrocatalysis”

**Radosavljevic, Jovana** (Earth

Sciences - Water)

“Land Use Changes and Salinization: Impacts on Lake Phosphorus Cycling and Water Quality”

**Ramirez, Daniel** (Chemistry)

“Solid Solution Tetrelides and Pnictides for Thermoelectric Applications”

**Reeves, Andrew Matthew McGregor**

(Physics)

“Star Formation and Quenching in Galaxies: Groups, Clusters, and Mergers”

**Saraswat, Krishan** (Physics)

“Quantum Aspects of Black Holes: From Microstates to Echoes and Somewhere In-Between”

**Siemonsen, Nils Peter** (Physics)

“Bosonic Fields in Strong-Field Gravity”

**Straker, Geburah Chokmah** (Biology)

“Investigating the Involvement of FHA Domain Lateral Surfaces in DNA Damage and Cell Cycle Checkpoint Responses in *Saccharomyces Cerevisiae*”

**Tannous, Ramy Nicolas** (Physics -

Quantum Information)

“Advancing the Robustness of Polarization and Time Bin Quantum Key Distribution for Free-Space Channels”

**Tjoa, Erickson** (Physics - Quantum

Information)

“The Roles of Causal Propagator in Relativistic Quantum Information”

**Webb, Kristi Anne** (Physics)

“Tracing Galaxy Evolution Through the Reconstruction of Their Star Formation Histories”

**Woodfinden, Alexander James**

(Physics)

“Precision Cosmology Using Voids”

**Yang, Lei** (Physics)

“Interactions, Entanglement, and Anomalies in Topological Semimetals”

**Ye, Weicheng** (Physics)

“Aspects of Anomaly in Condensed Matter Physics”

**Yu, Matthew** (Physics)

“(Non)-Invertible Topology in Quantum Field Theory”

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### MASTER OF SCIENCE

**Abed, Hadeel** (Biology - Water)

**Abu Baker, Dina Yousef Tawfiq**

(Chemistry)

**Ahmed, Shahnewaz** (Physics)

**Anand, Amit** (Physics - Quantum Information)

**Belayneh, Dawit Mesfin** (Physics)

**Bell, Natasha Celine** (Earth Sciences)

**Biggart, Kaylee Teneal** (Physics)

**Caklec, Jaycelyn Cori** (Biology)

**Calvert, Adam Charles** (Earth

Sciences)

**Caminiti, Jacqueline Olivia** (Physics)

**Chan, Albie** (Physics - Quantum Information)

**Coughlin, Cole Austin** (Physics)

**Eaton, Dean Frederick** (Physics)

**Epstein, Collin Joseph Cunningham** (Physics - Quantum Information)

**Etezad Razavi, Saba** (Physics)

**Evans, Natasha Marie Kang** (Chemistry)

**Friedman-Shaw, Batia** (Physics)

**Ghosal, Sukanya** (Physics)

**Giannakoudi, Ifigeneia** (Physics)

**Gong, Ruozhen** (Physics)

**Gonzalez Garcia, Sofia** (Physics)

**Gu, Aosheng** (Physics)

**He, Fuhai** (Physics)

**Hrytseniak, Oleksandra** (Physics)

**Hunjan, Manjot Singh** (Biology)

**Husnugil, Sercan** (Physics)

**Ippolito, Isabella** (Biology)

**Izquierdo Garcia, Raquel** (Physics)

**Knorr, Anna Charlotte** (Physics)

**Lee, Dongjin** (Physics)

**Letey, Mary Imelda** (Physics)

**Motamedi, Arsalan** (Physics - Quantum Information)

**Munday, James Elgin** (Physics)

**Naik, Tejas Ajit** (Physics)

**Oberfrank, Robin** (Physics)

**Orfi, Alev Katherine Bridget** (Physics - Quantum Information)

**Prakash, Rohini** (Biology)

**Punch, Rhiannon Mae** (Biology)

**Salehi, Kiana** (Physics)

**Sharif, Ilyas** (Physics)

**Shaw, Nicolette Adrienne** (Chemistry)

**Silverans, Hanne** (Physics)

**Slattery, Katherine Rose** (Physics)

**St Pierre, Zachery Hastings** (Physics)

**Tabor, Elisabeth Marie** (Physics)

**Tasnim, Humayra** (Pharmacy)

**Telali, Eirini** (Physics)

**Toma, Lilian** (Pharmacy)

**Vaibhav, Vatsalya** (Physics)

**Veitas, Rokas Paul** (Physics)

**Vucenovic, Allison Noelle** (Earth Sciences)

**Wang, Shirley** (Pharmacy)

**Wang, Zhiren** (Physics)

**Warren, Adrianna Marie** (Vision Science)

**Wu, Wilson Fan** (Physics - Quantum Information)

**Yang, Xiao** (Physics)

**Yeh, Yuan-Chen** (Physics)

**Yin, Haoyu** (Earth Sciences - Water)

**Zheng, YiDan** (Physics)

**Zhu, Cheng** (Physics - Quantum Information)

# Undergraduate Degrees

## FACULTY OF SCIENCE

### BACHELOR OF SCIENCE

#### GENERAL SCIENCE – THREE YEAR

Arcas, Courtney Jade (Biology Minor)

Awad, Jessica \*

Bains, Uday Singh (Economics Minor)

Benrubi-Morris, Joshua Glen Ariel

Bilopavlovic, Matthew Ljubomir  
(Computing Minor)

Chan, Evan Rodney †

Chen, Bo Han

Cheung, Thomas

Choi, Jason Lap-Fai

Desai, Bhavi Gaurang

Dhillon, Sumit Singh

Farquharson, James Lashley

Forrester, Seth Patrick

Geisbacher, Nicolas

Hassan, Suhaib

Kalányos, Xanthé (Earth Sciences  
Minor)

Ma, Brian Riley \*

Mi, Yifei

Morrison, Devon Nicholas

Moua, Drake Pao

Mubalamata, Jordan (Biology Minor)

Muhl, Chloe Anabela (Astrophysics  
Minor)

Nguyen, Bui Y Nhi (Biology Minor) \*

Nguyen, Roslyn †

Patel, Anshi Ketan

Potluri, Rohit Kumar

Shanta, Nicole Lauren †

Sundaramoorthy, Kohilan Michael

Vyas, Ravi Ghanshyambhai †

Werezak, Jennifer Anne (Biology Minor)

Wu, Chao Peng

Zhang, Runlin

Zheng, Rui (Biology Minor)

#### HONOURS PROGRAM

Abeyratne, Tharindya Santhejani  
(Biology – Molecular Genetics  
Specialization – Co-operative  
Program)

Abidalla, Mustafa (Science –  
Psychology Minor, Biology Minor)

Ageyi, Emmanuella Afia-Abrefi  
(Biomedical Sciences) \*

Al Badri, Ayat Ghazi (Science)

Ali, Namira (Science)

Allahmoradi, Katherine Lily (Science  
and Business – Co-operative  
Program) \*

Almarez, Dan Russel Liba (Science  
and Aviation – Earth Sciences Minor) †

Anacleto, Alexandra Pascoal  
(Psychology) \*

Andraws, Mary Nashat (Science)

Anstett, Lauren Nicole (Science)

Arizpe Cantu, Ricardo Brannen  
(Chemistry) \*

Arshad, Hiba (Biology – Computing  
Minor)

Arulanathan, Preetha (Biology –  
Co-operative Program)

Atwal, Janroop Kaur (Science –  
Biology Minor)

Baig, Mirza Muhammad Asad  
(Science – Biology Minor) \*

Baik, Selina Soyoon (Science)

Bains, Angad Singh (Science)

Bakowski, Nicole Maria (Science)

Balakrishnan, Thipashini (Science  
and Business – Co-operative  
Program)

Bansal, Misha (Science and Business)

Birk, Jasmin (Science)

Bonato, Laura Christina (Science)

Branje, Jesse (Biology – Plant  
Biology Specialization/Bioinformatics  
Option – Co-operative Program)

Brar, Jasmer Singh (Science)

Buitenhuis, Madison Leigh  
(Mathematical Physics –  
Co-operative Program)

Chalmers, Darby Chantal (Science)

Chauhan, Nikhil Kieran Hemant  
(Psychology) \*

Choi, Kun Hyuk (Science)

Choudhury, Joieta (Science and  
Business/Chemistry – Co-operative  
Program) \*

Chowdhury, Sahmat Ahmed  
(Science and Aviation – Earth  
Sciences Minor)

Chung, Emily Belita (Science)

Cort, Patrick (Biomedical Sciences)

Ćubelić, Nikola Ivan (Science)

Dang, Kim Dinh Hoang (Science)

Daniel, Jyasi Reuben (Science  
and Business – Biology Minor –  
Co-operative Program)

Del Young, Ronaldo Lawrence Jr  
(Science – Physics Minor)

Delima, Kaitlin Chelsea Masangya  
(Biomedical Sciences – Music Minor) \*

Dhaliwal, Akom Singh (Biomedical  
Sciences)

Dhanoa, Amandeep Singh  
(Biomedical Sciences) \*

Dhillon, Gurleen Kaur (Science –  
Biology Minor)

Diab, Joshua Elie (Science and  
Aviation) †

Diep, Matthew (Science)

Dodwell, Isaac (Biochemistry/  
Bioinformatics Option – Co-operative  
Program)

Downie, Megan Lee Renee (Science)

D'Souza, Lynn (Science)

Edalatkhah, Mahsa (Psychology –  
Biology Minor) †

Elliott, Joseph Edward (Science)

Ersin, Mina (Biochemistry/  
Biotechnology Specialization –  
Co-operative Program) \*

Etchells, Kenneth Graham (Physics  
and Astronomy – Computing Minor)

Fairgrieve, William Peter (Physics  
and Astronomy)

Fan, Shirley (Science)

Farrukh, Hamza (Science and  
Business/Biology – Co-operative  
Program)

Fatt, Jennifer Claire (Science –  
Biology Minor, Geography and  
Environmental Management Minor)

Feng, Guanhua (Physics) \*

Ferguson, Julie Veronica (Science)

Flammia, Jackie Louise (Science)

\* – Distinction

† – Dean's Honours



**Gandham, Gurshan** (Chemistry – Co-operative Program)

**Garas, Mary Luka Helmy** (Science)

**Glover, Elyse Audrey Kay** (Biomedical Sciences) \*

**Gong, Yuying** (Science and Business – Co-operative Program)

**Grant, Emily Alison** (Biomedical Sciences) \*

**Guo, Rui Ying Rui** (Biomedical Sciences)

**Habib, Sara** (Science)

**Hasson, Husien** (Chemistry – Co-operative Program)

**He, Chunyu** (Science – Chemistry Minor)

**He, Hailan** (Science – Biology Minor)

**Ho, Justin Chun-Hin** (Science – Earth Sciences Minor)

**Hoang, Lisa Nguyen** (Biology – Biotechnology Specialization/ Bioinformatics Option – Co-operative Program) \*

**Hong, Ruize** (Physics – Astrophysics Minor) \*

**Hu, Steven Hao** (Science and Business – Economics Minor – Co-operative Program) \*

**Huang, Ming Zhao** (Science)

**Huo, Camille Zi Xi** (Science)

**Ilagan, Allyssa Janine** (Biology)

**Jacobs, Ryan Edward** (Science and Aviation – Physics Specialization)

**Jaggi, Gursimar Singh** (Biomedical Sciences)

**James, Demetri Diallo** (Science and Aviation – Earth Sciences Minor)

**Jarvis, Kyra Rose** (Science and Aviation) \*

**Jia, Chenkai** (Earth Sciences/ Geophysics Specialization – Mathematics Minor)

**Jin, Nuo** (Science and Business)

**Jose, Joycey Tresa** (Science)

**Joshi, Suyog** (Mathematical Physics – Co-operative Program)

**Kannuthurai, E-Han** (Science – Computing Minor)

**Kapoor, Anikate Singh** (Biochemistry/Biotechnology Specialization)

**Khan, Muhammad** (Science and Business – Co-operative Program)

**Khan, Samra** (Science and Business – Co-operative Program)

**Kong, Derek** (Physics – Astrophysics Minor, Mathematics Minor – Co-operative Program)

**Krajisnik, Milana** (Science)

**Kuruppu, Thisarani Kalhara** (Physics – Entrepreneurship Minor)

**Kwon, Taewoo** (Science/ Bioinformatics Option – Biology Minor)

**Laevens, Lily Mary Rain** (Biochemistry & Joint Honours Psychology – Research Intensive Specialization – Co-operative Program) \*

**Lagachu, Raina** (Biomedical Sciences)

**Lagno, Andrew** (Materials and Nanosciences)

**Lama, Sonam Tashi** (Biomedical Sciences) \*

**Lange, Samantha Andrea** (Physics – Co-operative Program)

**Laslavic, Melissa Temira** (Science – Biology Minor, Sociology Minor)

**Lau, Alice Pui Lam** (Science)

**Lau, MacKenzie** (Materials and Nanosciences – Co-operative Program) \*

**Law, Shari** (Biomedical Sciences – Psychology Minor)

**Le, Rosa** (Biomedical Sciences)

**Lee, Jason Seungsoo** (Science and Business – Co-operative Program)

**Lee, Michelle Eunseo** (Science)

**Lee, Yunsu** (Science – Biophysics Minor)

**Leung, Lucas Lok Kan** (Science)

**Li, Jia Yi** (Science)

**Li, Yan Yi** (Biochemistry/ Bioinformatics Option – Co-operative Program)

**Li, Yi Fei** (Science)

**Liu, Chang** (Environmental Sciences/ Geoscience Specialization) \*

**Lo, Sophia** (Biomedical Sciences/ Bioinformatics Option – Psychology Minor) †

**Loo, Jordan Danial** (Science – Biology Minor)

**Luto, Rea** (Science – Biochemistry Minor)

**Ly, Nick** (Biomedical Sciences – Chemistry Minor, East Asian Studies Minor)

**Ly, Randy** (Materials and Nanosciences – Co-operative Program)

**Majeed, Ali Asif** (Earth Sciences/ Geology Specialization)

**Mander, Harleen Kaur** (Biomedical Sciences & Joint Honours Psychology – Medical Physiology Minor) \*

**Mao, Casey Jiahui** (Science)

**Marquardt, John Albert** (Science)

**Mazhar, Mahnoor** (Science)

**McBride, Laurel Elizabeth** (Biology – Co-operative Program) †

**McRitchie, Cathleen Dianne** (Science)

**Meelu, Ashley** (Biomedical Sciences – Legal Studies Minor)

**Mendoza, Mark Christopher** (Science)

**Messina, Lucas Salvatore** (Science – Earth Sciences Minor)

**Meyer, Allison Lynne** (Science)

**Minnes, Madeline Blair Hakes** (Science and Business – Economics Minor – Co-operative Program) \*

**Moore, Andrew Ryan** (Science and Business/Chemistry – Co-operative Program)

**Narewal, Simran** (Science)

**Negi, Aarushi** (Science and Aviation – Earth Sciences Minor)

**Nisyif, Ali Saeed** (Biochemistry)

**Noufal, Cathrina** (Science – Biology Minor)

**Pabla, Mopreet Kaur** (Psychology – Philosophy Minor, Biology Minor) \*

**Pan, Shayna** (Science)

**Park, Catherin Woo** (Biology) \*

**Patel, Shivani** (Biology)

**Paz Escudero, Diego Javier** (Science)

**Pereira, Numbo Da Rocha** (Chemistry – Co-operative Program)

**Peterman, David Elliott** (Science)

**Pham, Hanh Thi Phuong** (Biology – Environmental Biology Specialization)

**Pir Zad Moghaddam, Farhad** (Earth Sciences/Geology Specialization) \*

**Prajapati, Dhruv Pareshkumar** (Life Physics – Medical Physics Specialization – Biology Minor – Co-operative Program)

**Putros, Maryanne** (Science – Medical Physiology Minor, Psychology Minor, Biology Minor)

**Randhay, Tavleen Kaur** (Science – Biology Minor)

**Rais, Abeera Fatima** (Science and Business/Biology)

**Rejinald, Reuven Mathew** (Science and Aviation – Earth Sciences Minor)

**Ren, Yi Nuan** (Physics – Co-operative Program)

**Repato, Rafael Pastorin** (Science and Aviation) †

**Robin, Marina** (Science)

\* – Distinction

† – Dean's Honours

**Roupra, Harpreet Kaur** (Science – Biology Minor, Anthropology Minor)

**Salad, Hibaq** (Science – Biology Minor)

**Sallam, Rola Mostafa** (Science – Biology Minor) \*

**Sami, Areeba** (Science)

**Scott, Isabella Livia** (Science – Biology Minor)

**Sembakutti, Prarthana** (Psychology – Biology Minor)

**Shah, Dhruvi** (Science and Business – Biology Minor – Co-operative Program)

**Shaker, Thomas Ramzy** (Science)

**Sharma, Nikita** (Science)

**Shongwe, Jabulina Sydney** (Environmental Sciences/Water Science Specialization – Co-operative Program)

**Sidhu, Ravnaaz Kaur** (Science and Aviation – Earth Sciences Minor)

**Sills Schvarcz, Cameron Johann** (Science and Aviation – Earth Sciences Minor) \*

**Simpson, Garen Aaron Akeen** (Materials and Nanosciences – Biophysics Minor – Co-operative Program)

**Singh, Japnaman** (Science and Aviation – Earth Sciences Minor)

**Siu, Kalinda Yan-Tong** (Science)

**Skrobonja, Anja** (Biochemistry – Co-operative Program) \*

**Soja, Nicole Elizbieta** (Biology)

**Spasik, Leona** (Science)

**Stanger, Emily** (Science)

**Stepanek, Michelle Brianna** (Chemical Physics – Co-operative Program)

**Stuckless, Daniel Robert** (Science)

**Stute, Megan Marie** (Science)

**Su, Margaret** (Science)

**Suhail, Juwairiya** (Science – Biology Minor)

**Summers, Colin Robert** (Science)

**Syed, Wasam Ashraf** (Psychology – Biology Minor)

**Tahmid, Syed Mohammad Saqif** (Science/Bioinformatics Option)

**Thomare, Natasha Narendra** (Science & Joint Honours Psychology – Research Intensive Specialization/Bioinformatics Option)

**Tlustos, Dakota Christina** (Science – Biology Minor) \*

**Trinh, Vy Dong** (Science)

**Van, Jonathan Hao** (Science and Aviation)

**Van Loon, MacKenzie Marie** (Science)

**Villar, Genevre Mae Crescini** (Biochemistry – Co-operative Program)

**Vo, Nguyen Tu Minh** (Science)

**von Stackelberg, Carter Jacob** (Earth Sciences/Geology Specialization)

**Wang, Selina Xinyue** (Science)

**Webb, Mikenna Marie** (Science – Biology Minor, Psychology Minor) †

**Wild, Caitlin Anne** (Science)

**Wu, Evan** (Science)

**Xie, Jing** (Science & Joint Honours Psychology – Biology Minor, Chemistry Minor) \*

**Xie, Zixiang** (Biology)

**Xu, Guanru** (Materials and Nanosciences)

**Xue, Bowen** (Biology/Bioinformatics Option)

**Yusufali, Faisal** (Science and Business – Economics Minor, Biology Minor)

**Zahra, Syeda Irda** (Biology – Co-operative Program)

**Zhang, Elsie** (Biology/Bioinformatics Option – Legal Studies Minor – Co-operative Program)

**Zhao, Rebecca** (Earth Sciences/Geophysics Specialization) \*

**Zhu, Zeqing** (Materials and Nanosciences)

Choi, Kun Hyuk \*

Chung, Emily Belita \*

Ćubelić, Nikola Ivan †

Dang, Kim Dinh Hoang

Dang, Manvir †

Dao, Thao Phuong \*

Davies, Asher Spencer †

Davis, Alicia Sara †

Di Stefano, Rose †

Diab, Emile \*

Diep, Matthew

Downie, Megan Lee Renee \*

D'Souza, Lynn †

Duggan, Kaitlin May

Estavillo, Danica Mae Christine Aala \*

Fallis, Sarah Jennifer †

Fan, Shirley †

Feng, Sandy †

Ferguson, Julie Veronica

Flammia, Jackie Louise \*

Garas, Mary Luka Helmy †

Ghaly, Mira

Granholm, Richard \*

Greenlees, Claire Rynn †

Habib, Sara \*

Harrypersad, Sharala Padminy \*

Helka, Amanda Nicole \*

Ho, Benson Phillip \*

Huo, Camille Zi Xi \*

Hutchings, Lauren Katherine †

Huynh, Kevin \*

Huynh, Kevin \*

Huynh, Steven \*

Huzevka, Madison Marie \*

Ingratta, Amanda Katelyn \*

Jibrini, Maher †

Jose, Joycey Tresa

Kanagasundaram, Pruntha †

Krajisnik, Milana \*

Lac, Julie \*

Lam, Jerry Chi-Yue †

Langstaff, Christian Gordon \*

Lau, Alice Pui Lam †

Lee, Michelle Eunseo \*

Leung, Lucas Lok Kan †

Li, Jia Yi \*

Li, Yi Fei †

Long, Trisha †

Maliekal, Sahil John

Mao, Casey Jiahui †

Marinaccio, Rocco Benito †

Massaro, Kaitlyn Elaine †

Mazhar, Mahnoor \*

McRitchie, Cathleen Dianne \*

Meyer, Allison Lynne †

Musa, Lina \*

Narewal, Simran †

Nganinka, Ann-Samantha

Palermo, Amanda \*

Pan, Shayna \*

Patel, Ketuben \*

Paz Escudero, Diego Javier \*

Peterman, David Elliott †

Rehmanji, Taher †

Reis, Megan Joyce †

Rivard, Madeleine Nicole \*

Robin, Marina †

Sami, Areeba †

## DOCTOR OF PHARMACY

### CO-OPERATIVE PROGRAM

Agtarap, Kyla †

Al Abdul Wahed, Arwa Hashim \*

Al Badri, Ayat Ghazi \*

Alie, Jennifer †

Andraws, Mary Nashat †

Anstett, Lauren Nicole \*

Arends, D'Arcy Marie †

Asselin, Michelle Marie †

Baik, Selina Soyoon \*

Bains, Angad Singh †

Bakowski, Nicole Maria †

Bell, Sydney Jude †

Bonato, Laura Christina †

Bonti-Ankomah, Jocelyn \*

Boyle, Gavin Allen †

Brar, Jasmer Singh

Bratkov, Tal \*

Bui, Linh \*

Chalmers, Darby Chantal \*

Choi, KiChang Brent

\* – Distinction

† – Dean's Honours

Sekhon, Jasman Kaur \*  
Shaker, Thomas Ramzy \*  
Sharma, Nikita \*  
Shiha, Collin Michael \*  
Sicard, Chelsey Elizabeth †  
Siu, Kalinda Yan-Tong †  
Spasik, Leona †  
Springs, Hayley Jaclyn \*  
Stanger, Emily †  
Stuckless, Daniel Robert †  
Stute, Megan Marie \*  
Su, Margaret \*  
Summers, Colin Robert  
Tailor, Mayur A. †  
Tremblay, Valérie Andrée Kristen †  
Trinh, Vy Dong \*  
Ulusow, Asha \*  
Urslak, Randilynne Zenovia †  
Van, Katherine \*  
Van Loon, MacKenzie Marie \*  
Vanderzee, Shelly Taylor †  
Vij, Sumani \*  
Vo, Nguyen Tu Minh \*  
Wang, Selina Xinyue \*  
Waseem, Rita †  
Welch, Michael Thomas †  
Wild, Caitlin Anne †  
Wu, Evan †  
Xiao, Alice \*  
Yang, Zhen  
Zhyrnova, Iryna

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### **DIPLOMA IN FRENCH LANGUAGE I**

Lama, Sonam Tashi  
Noufal, Cathrina

---

### **DIPLOMA IN GERONTOLOGY**

Mander, Harleen Kaur

---

### **DIPLOMA IN SPANISH LANGUAGE I**

Anacleto, Alexandra Pascoal

---

### **CERTIFICATE IN CO-OPERATIVE EDUCATION IN RESEARCH**

Branje, Jesse

---

### **CERTIFICATE IN EXPERIENTIAL EDUCATION**

Randhay, Tavleen Kaur

\* – Distinction

† – Dean's Honours

# Outstanding Achievements

## FACULTY OF HEALTH

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### **MEDALS AND AWARDS**

#### **FINALIST FOR THE UNIVERSITY OF WATERLOO ALUMNI GOLD MEDAL**

##### **Doctoral**

Jackie Doreen Zehr (Spring 2023)

##### **Master's**

Kendra Elizabeth Fortin (Spring 2023)

## FACULTY OF SCIENCE

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### **MEDALS AND AWARDS**

#### **THE UNIVERSITY OF WATERLOO ALUMNI GOLD MEDAL**

##### **Outstanding academic performance in a Doctoral program**

Ryan Moreira (Spring 2023)

# Waterloo brings home the gold

*Alumni Gold Medal recipients share in the pursuit of discovery, so we created a lasting symbol to honour their achievements.*

Since 1970, Alumni Gold Medals have graced the convocation gowns of our top undergraduate and graduate students. The Royal Canadian Mint produced these medals in the past – but in the true spirit of Waterloo, we’ve decided to make them ourselves.

Carefully crafted on campus in state-of-the-art labs, each medal is created out of nickel superalloy using a 3D printer. The surface is finished by hand to produce a brilliant shine. Through the process of electroplating, the medal is then coated in 24-carat gold. The result is a tribute to Waterloo’s most accomplished graduates, made for each proud recipient by members of the University community.



GO INSIDE THE LAB AT  
[uwaterloo.ca/alumni/events-and-awards/awards-and-medals/alumni-gold-medals](https://uwaterloo.ca/alumni/events-and-awards/awards-and-medals/alumni-gold-medals)

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**CONGRATULATIONS TO THIS YEAR’S ALUMNI GOLD MEDAL RECIPIENTS.  
YOU HAVE MUCH TO CELEBRATE, AND EVEN MORE TO ANTICIPATE  
IN YOUR FUTURE AS UNIVERSITY OF WATERLOO ALUMNI.**

# *Our tradition of regalia*

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## **THE GOWN**

At the University of Waterloo, as at most universities, academic robes are worn only on these special occasions. In the Middle Ages, robes were everyday clothing, and some students were so poor they had nothing else to wear. The black wrapper now called a “gown” served them as jacket, coat and sometimes bedclothes. Stone college buildings of the Middle Ages were unheated and the colourful “hood” could be pulled up to help keep out the cold wind. Today, the officers of the University, faculty members and graduating students all wear garments that are symbolic, not functional.

The scholars and students in long-ago universities were generally monks and other members of church orders. Over time, their vestments came to identify their universities. There are many variations, and the exact hood, gown or hat worn by an individual are determined by the university where they qualified. The array of colours and styles demonstrates the worldwide range of universities from which Waterloo’s faculty have come.

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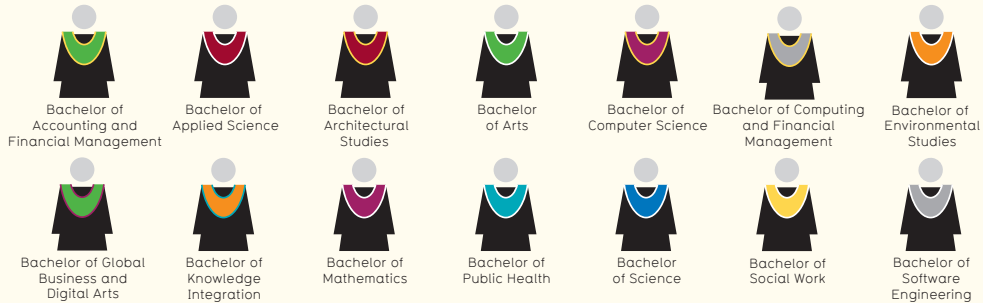
## **THE HOOD**

Hoods are unique in design and colour to each degree and each university. The academic dress chosen for Waterloo is patterned after that of Oxford, the world’s oldest English-speaking university. The chief officers on the convocation platform – the Chancellor (the ceremonial head of the University) and the President (who is also Vice-Chancellor) – wear gowns of the Oxford cut and trim, each with its own distinctive colour. The gowns worn by recipients of honorary degrees have the same design, as do the black gowns worn by candidates for regular degrees, and the red-and-green gowns which are Waterloo’s regalia for Doctor of Philosophy degrees.

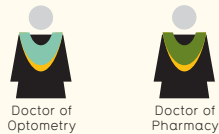
The ritual at convocation reflects the old custom that anyone in a university could wear a gown, but a hood was the symbol for a degree.

# Academic Dress

## BACHELOR'S



## PROFESSIONAL DOCTORATE



## MASTER'S



## DOCTORAL



## HONORARY DOCTORATE

# CONVOGATION



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