WINNING SCHOLARSHIP 2018

A FIVE-YEAR VIEW
MEET UBC’S AWARD-WINNING SCHOLARS

THE UNIVERSITY OF BRITISH COLUMBIA is among the top 20 public universities in the world. Our faculty drive this level of excellence and influence — their commitment to research, teaching, innovation and leadership creates a community where knowledge advances, ideas transform and students thrive.

Our esteemed faculty members have been honoured with numerous international and national awards. In these pages, we celebrate those who have been recognized in the last five years.

For the most current list of UBC’s major award winners, please visit research.ubc.ca/winningscholarship

We acknowledge that UBC’s campuses are situated on the traditional, unceded territory of the Musqueam, Squamish and Tsleil-Waututh peoples, and on the territory of the Syilx Okanagan Nation.
OVER THE LAST CENTURY, the University of British Columbia’s entrepreneurial spirit has attracted leading international scholars who embrace innovation and challenge the status quo. Through their commitment to excellence, UBC has emerged as one of the most vibrant and inspirational places of learning and research in the world.

Today, UBC is recognized as North America’s most international university, and we are consistently ranked as one of the top research universities in the world.

It is my honour to introduce you to some of my distinguished colleagues whose accomplishments have recently been recognized with international and national awards.

I am proud to be a member of this great community of scholars who apply their passion and intellect to shape our future.

PROFESSOR SANTA J. ONO
PRESIDENT AND VICE-CHANCELLOR, UNIVERSITY OF BRITISH COLUMBIA
CANADIAN ACADEMY OF HEALTH SCIENCES, FELLOW, 2017

WHERE WE STAND IN THE MOST RECENT RANKINGS:

1ST CANADA’S MOST INTERNATIONAL UNIVERSITY, 2018 TIMES HIGHER EDUCATION (THE) WORLD UNIVERSITY RANKINGS

34TH RESEARCH UNIVERSITY IN THE WORLD, 2018 THE WORLD UNIVERSITY RANKINGS

8TH PUBLIC UNIVERSITY IN NORTH AMERICA, 2018 THE RANKINGS

27TH GLOBAL UNIVERSITY, 2018 U.S. NEWS & WORLD REPORT BEST GLOBAL UNIVERSITIES RANKINGS

31ST ACADEMIC RANKING OF WORLD UNIVERSITIES, 2017 SHANGHAI RANKING

SINCE UBC OPENED ITS DOORS IN 1915, WE HAVE BEEN HOME TO:

8 NOBEL LAUREATES

13 3M NATIONAL TEACHING FELLOWS

71 RHODES SCHOLARS

256 ROYAL SOCIETY OF CANADA FELLOWS

251 CANADA RESEARCH CHAIRS

325,000+ ALUMNI IN OVER 140 COUNTRIES
Dr. Gary Hinshaw is one of 26 scientists—including UBC physics and astronomy colleague Mark Halpern—behind the NASA satellite Wilkinson Microwave Anisotropy Probe (WMAP). The team received the Breakthrough Prize in Fundamental Physics for helping to capture a “baby picture of the universe.” The publications stemming from their work are among the most highly cited physics and astronomy papers ever published.

Hinshaw was one of five team leaders of the WMAP team, which was recognized for accurate measurements of several key cosmological parameters, including the age of the universe at 13.77 billion years; the fact that more than 95 per cent of the energy in the universe resides in the form of dark matter and dark energy; and the notion that our universe likely began with a burst of “cosmic inflation.”

**Other Recent Awards:**
• Royal Society of Canada, Fellow, 2017
Dr. Rashid Sumaila is one of the world’s most innovative researchers on the future of the oceans, integrating social and economic dimensions with ecology, law, fisheries science and traditional knowledge to build novel pathways towards sustainable fisheries. His work involves all facets of ocean health, such as overfishing, oil spills, pollution, acidification and climate change. His research has helped to demonstrate that the ocean’s supply of fish has been severely depleted by perverse incentives. This contributed to the creation of the first high seas marine protected area, the Ross Sea in Antarctica.

Other recent awards:
• Peter Benchley Ocean Award, Excellence in Science, 2017
• Hokkaido University Ambassador, 2016–2019
• Brazilian Science, ‘Science without Borders’ Fellow, 2013
• American Fisheries Society, Award for Excellence in Public Outreach, 2013

Since its inception in 1990, the Volvo Environment Prize has become one of the scientific world’s most respected environmental awards. Laureates represent all fields of environmental and sustainability studies and initiatives. Awarded annually by an independent foundation, the laureate is selected by an international prize jury of internationally renowned scientists.

“UBC is a modern university, ahead of the curve in encouraging interdisciplinarity, experimentation and innovation. Public engagement and communication by faculty and students is increasingly being woven into the fabric of life here.”

Dr. Rashid Sumaila
The Prix Galien Canada Research Award is the most prestigious award in the field of Canadian pharmaceutical research and innovation. Often referred to as “the Nobel Prize of pharmaceutical research,” it is presented to the researcher or the research team that has made the most significant contribution to pharmaceutical research in Canada.

Prix Galien Canada Research Award

2014

Brett Finlay
Professor, Microbiology and Immunology, and Biochemistry and Molecular Biology
Peter Wall Distinguished Professor

Described as one of the world’s foremost experts on the molecular understanding of the ways bacteria infect their hosts, Dr. Brett Finlay is well known for his contributions to understanding how microbes cause disease in people, and developing new tools for fighting infections. He was the leader of the successful initiative to develop a SARS vaccine in 2003 and also developed a bovine vaccine to E. coli. His current research interests focus on pathogenic E. coli and Salmonella virulence, and the role of the microbiota in infections, asthma and malnutrition. By combining cell biology with microbiology, Dr. Finlay has been at the forefront of the field called Cellular Microbiology.

Other recent awards:
• Canadian Medical Hall of Fame, 2018
• Carnegie Centenary Professor, 2015
• Canadian Institute for Advanced Research, Senior Fellow, 2014
The 3M National Teaching Fellowship, sponsored by 3M Canada and the Society for Teaching and Learning in Higher Education, is the only pan-Canadian, cross-disciplinary recognition of educational leadership and excellence in university teaching. The Fellowship recognizes demonstrated leadership in enhancing post-secondary teaching excellence locally, nationally and often internationally.

**2016**

**Maja Krzic**  
**ASSOCIATE PROFESSOR, APPLIED BIOLOGY, AND FOREST AND CONSERVATION SCIENCES**

In 2004, Dr. Maja Krzic launched the Virtual Soil Science Learning Resources Consortium. Today, it is used by 27 Canadian universities and 15 international universities across four continents. Several of the consortium’s web-based tools for distance education courses have received awards for innovation and excellence. An associate editor for Natural Sciences Education, Dr. Krzic is a role model who has had an extraordinary impact on her discipline, her students and her colleagues. She has almost single-handedly revitalized the study of soil science at UBC.

**OTHER RECENT AWARDS:**
- Natural Sciences Education, Outstanding Associate Editor, 2016
- Platinum AVA Digital Award, Information Experience (for educational project SOILx), 2015
- Platinum MarCom Award, Mobile and Web-Based technology (for SOILx), 2014
- Quarry Life Award, Third Prize, 2014
- CNIIE Award, Excellence and Innovation in the Integration of Technology in a Formal or Non-Formal Educational Program, 2014
- Association for Women Soil Scientists, Soil Science Society of America Mentoring Award, 2013
Simply an amazing instructor." That’s the comment repeated again and again by Dr. Sara Harris’s students. They are engaged by her use of interactive teaching methods to learn all they can about climate change. Dr. Harris pioneered one of UBC’s first Massive Open Online Courses on Climate Literacy, incorporating active learning methods, such as creating a student-led crowd-sourced map of climate change and climate impacts. This map is now a valuable open resource with contributions from all over the world. Dr. Harris has also played a pivotal role in leading her colleagues to switch from lecture-based teaching to using a variety of research-based instructional strategies.

"For at least the past decade, UBC has been a terrific place to focus on teaching and learning. The enthusiasm of colleagues and students, the support from all levels at the university, and the opportunities through the Carl Wieman Science Education Initiative and beyond have all helped me do my best work."

Dr. Sara Harris

3M National Teaching Fellowship

2015

Sara Harris
Professor of Teaching, Earth, Ocean and Atmospheric Sciences

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Dr. Sara Harris
**Sloan Research Fellowship**

The Sloan Research Fellowship recognizes early-career scientists and scholars in Canada and the United States whose achievements and potential identify them as rising stars in the academic community. Since 1955, Sloan Research Fellows have gone on to win 43 Nobel Prizes, 16 Fields Medals, 69 National Medals of Science, 16 John Bates Clark Medals and numerous other distinguished awards. More than 20 UBC Science researchers have been awarded the fellowship since 1984.

**RUSS ALGAR**

Assistant Professor, Chemistry

Canada Research Chair in Biochemical Sensing

Dr. Russ Algar works at the interface of bioanalytical, physical and materials chemistry developing new tools for biomedical research and new technologies for the delivery of health care. Specifically, he studies luminescent materials such as quantum dots, polymer dots and lanthanide complexes as components of novel point-of-care diagnostics, cellular probes and other forms of bioanalysis. He has expertise in fluorescence spectroscopy and imaging as well as applications of nanoparticles.

**Mark Schmidt**

Assistant Professor, Computer Science

Canada Research Chair in Large-Scale Machine Learning

Dr. Mark Schmidt is an expert in the area of machine learning and numerical optimization. He explores how to learn efficiently in new domains, such as social networks and computer vision, and how to maximally use new computing models, such as huge clusters of networked computers. By speeding up the core technologies underlying the use of larger datasets, his work has the potential to affect a wide variety of scientific and engineering disciplines that produce huge datasets, in both academia and industry.

**OTHER RECENT AWARDS:**
- Spectroscopy, Emerging Leader in Molecular Spectroscopy, 2017
- Canadian Society for Chemistry, Fred Beamish Award, 2017
- Michael Smith Foundation for Health Research Scholar, 2014
- Peter Wall Institute for Advanced Studies Early Career Scholar, 2013
The Killam Prizes are among the most prestigious research prizes in Canada. They recognize Canadian scientists whose lifetime of work has impacted Canadians and citizens around the world. Each year, one $100,000 prize is awarded in each of the fields of humanities, social sciences, natural sciences, health sciences and engineering.

2017
Julio Montaner
University Killam Professor, Medicine
UBC and St. Paul’s Hospital
Foundation Chair in AIDS Research
Director, BC Centre for Excellence in HIV/AIDS
Physician Program Director, HIV/AIDS Program, St. Paul’s Hospital, Providence Healthcare

Dr. Julio Montaner has devoted himself to improving the care and treatment of people with HIV/AIDS for more than three decades. His work on highly active antiretroviral therapy and the creation of the Treatment as Prevention® (TasP®) strategy is credited with saving millions of lives around the world. He is the architect of the United Nations 90-90-90 Target, aimed at ending HIV/AIDS as a public health threat by 2030. He is currently working to adapt his TasP® strategy to the control of viral hepatitis.

Other recent awards:
• CIHR Barer-Flood Prize in Health Services and Policy Research, 2015
• Royal Society of Canada, McLaughlin Medal, 2015
• Canadian Aboriginal AIDS Network, Award of Recognition, 2015
• Canadian Medical Hall of Fame, 2015
• Order of Canada, Officer, 2014
• Canadian Medical Association, Frederic Newton Gisborne Starr, 2013
• Rx&D Health Research Foundation, Medal of Honour, 2013
• Argentina Senate of the Nation, 2013
• Three honorary doctorates

“Since UBC opened its doors to me as a research fellow in 1981, its dynamic ecosystem has greatly facilitated our research and innovation, as well as our ability to disseminate and implement our discoveries.”

Dr. Julio Montaner

2015
Vijay Bhargava
Professor, Electrical and Computer Engineering

Dr. Vijay Bhargava has had a profound impact in the field of wireless communications. Practical applications of his research include wireless networks that support 3D multimedia, gaming, device-to-device communications, e-health and social networks. His current research interests are in the areas of fifth-generation (5G) wireless communications and cognitive spectrum access, expected to be the norm for future wireless networks.

Other recent awards:
• Humboldt Research Award, 2015
• Canadian Award for Telecommunications Research, 2015
Dr. Janet Werker is internationally recognized for her research investigating the perceptual foundations of language acquisition in both monolingual- and bilingual-learning infants. Her research focuses on understanding the roots of language acquisition by studying speech perception in infancy, the mechanisms by which native speech sound categories are acquired, and how speech perception supports early word learning. She is a founder and co-director of UBC’s innovative interdisciplinary Language Sciences Initiative, which supports both interdisciplinary research and new approaches to undergraduate teaching.

RECENT RECOGNITION:
- Order of Canada, Officer, 2017
- Pickering Award for Outstanding Contribution to Developmental Psychology in Canada, 2017
- Featured as an innovator in Ingenious, co-authored by David Johnston and Tom Jenkins, 2017
- Listed among “Great Canadian Thinkers in the Social Sciences and Humanities” Canada’s Fundamental Science Review, 2017
- American Academy of Arts and Sciences, Fellow, 2014

THE GOLD MEDAL IMPACT AWARD is the Social Sciences and Humanities Research Council of Canada’s highest research honour. It is awarded to an individual whose sustained leadership, dedication and originality of thought have inspired students and colleagues alike. The exceptional quality and impact of the recipient’s research greatly enriches Canadian society and contributes to social, cultural, economic and intellectual life in Canada and internationally.

“It is exciting and inspiring to be part of a university that keeps seeking new ways to enable researchers to ask both targeted and big questions. I attribute my success in large part to UBC’s collaborative, interdisciplinary environment, which encourages and enables researchers to take risks at every stage of their careers.”

DR. JANET WERKER
Dr. Curtis Berlinguette is committed to translating fundamental discoveries in clean energy conversion technologies into commercially viable devices. His research program is focused on advanced solar cells, and converting atmospheric CO₂ into useful fuels and chemicals using renewable electricity.

Other recent awards:
- Royal Society of Canada, Rutherford Memorial Medal in Chemistry, 2016
- Canadian Society for Chemistry, Strem Chemicals Award for Pure or Applied Inorganic Chemistry, 2016
- Canadian Institute for Advanced Research, Fellow, 2015

Dr. Kevin Leyton-Brown studies the intersection of computer science and microeconomics, addressing computational problems in economic contexts and incentive issues in multiagent systems. He also applies machine learning to the automated design and analysis of algorithms for solving hard computational problems.

Other recent awards:
- Association for the Advancement of Artificial Intelligence, Fellow, 2018
- ICON Challenge on Algorithm Selection, First Place, 2015
- Canadian Association for Computer Science, Outstanding Young Computer Science Researcher Award, 2013
- Google Faculty Research Award, 2013

“UBC attracts the best talent from around the world. The energy and creativity that these students bring to my program have enabled us to tackle the most challenging science and engineering problems facing society today.”

Dr. Curtis Berlinguette
2017

Daniel Pauly

**UNIVERSITY KILLAM PROFESSOR, INSTITUTE FOR THE OCEANS AND FISHERIES, AND ZOOLOGY**

**SIR JOHN WILLIAM DAWSON MEDAL RECIPIENT**

The award recognizes important and sustained contributions in two domains of interest or in interdisciplinary research. The medal is awarded every two years if there is a suitable candidate.

Dr. Daniel Pauly is Principal Investigator for Sea Around Us, devoted to studying, documenting and promoting policies to mitigate the impact of fisheries on the world’s marine ecosystems. A lack of accurate or comprehensive data makes efforts to stem the tide of overfishing difficult, limiting the chances of success. Sea Around Us provides one part of the solution: reconstructed catch data for fisheries across the globe.

**OTHER RECENT AWARDS:**
- Chevalier de la Légion d’Honneur, 2017
- Blue Marine Foundation and Boat International, Ocean Award (Science), 2017
- Radio Canada, Scientifique de l’année, 2016
- Institut Oceanographique, Albert 1er Fondation de Monaco, Grande Médaille (Science), 2016
- Peter Benchley Ocean Award, 2015
- American Association for the Advancement of Science, Fellow, 2015

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**RECENT ROYAL SOCIETY OF CANADA MEDAL RECIPIENTS**

2017 — **MCALGHIW MEDAL**

Julio Montaner

**PROFESSOR, MEDICINE**

The McLaughlin Medal is awarded for important research of sustained excellence in any branch of medical sciences.

2016 — **RUTHERFORD MEMORIAL MEDAL**

Curtis Berlinguette

**PROFESSOR, CHEMISTRY, AND CHEMICAL AND BIOLOGICAL ENGINEERING**

2013 — **RUTHERFORD MEMORIAL MEDAL**

Mark MacLachlan

**PROFESSOR, CHEMISTRY**

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2017

Ingrid Stairs

**PROFESSOR, PHYSICS AND ASTRONOMY**

**RUTHERFORD MEMORIAL MEDAL RECIPIENT**

The medals are awarded for outstanding research in any branch of physics and chemistry. Some preference is given to candidates under 40. The awards are offered every year if there is a suitable candidate.

Dr. Ingrid Stairs uses the world’s largest radio telescopes to study pulsars, dense neutron stars derived from the cores of massive stars that have undergone supernova explosions. Pulsars emit lighthouse-like beams of radio waves that can be detected every time the neutron star spins. Monitoring the spin rates of pulsars over months and years leads to an enormous range of astrophysical results. At one extreme is an improved understanding of the nature of matter at ultra-high densities; at the other are the most stringent tests to date of general relativity in the strong-field regime.

**OTHER RECENT AWARDS:**
- Canadian Astronomical Society, Peter G. Martin Award for Mid-Career Achievement, 2017
- Canadian Institute for Advanced Research, Senior Fellow, 2014
**Peter Ostafichuk**

**Professor of Teaching, Mechanical Engineering**

Dr. Peter Ostafichuk is a catalyst for change in engineering education. He was instrumental in transforming elements of UBC’s Mechanical Engineering program from its traditional format by introducing team-based and project-based learning features and organizing design competitions involving engineer-client simulations. He has become a role model for other professors and has worked with other institutions, supporting them as they revise their engineering programs. His teaching is about the kind of “deep learning” that is transformational for the lives of students and that strives to change the world.

**Other recent awards:**
- 3M National Teaching Fellowship, 2015

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**Roman Krems**

**Professor, Theoretical Chemistry**

Dr. Roman Krems aims to understand the dynamics of few- and many-body quantum systems. His current research focuses on dynamics of molecules in the presence of electromagnetic fields in order to understand how to exploit molecule-field interactions for controlling microscopic reactions, building new quantum devices and assembling unique quantum systems that do not naturally exist. He is also exploring applications of machine learning for solving problems in physics and chemistry.

**Other recent awards:**
- Centre de Mécanique Ondulatoire Appliquée, Promising Scientist Prize, 2016
- Royal Society College of New Scholars, Artists and Scientists, Member, 2016
- American Physical Society, Fellow, 2015
- Canadian Society for Chemistry, Keith Laidler Award, 2013

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**Kavli Fellows** are selected by members of the National Academy of Sciences to attend their premiere event for distinguished young scientists, the Kavli Frontiers of Science symposium series. Attendees are selected from among award winners for early career scientists in the United States and abroad: Sloan Fellows, Packard Fellows, MacArthur Genius Grantees, Pew Fellows, Searle Scholars and Presidential Early Career Awardees for Scientists and Engineers.

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**Wighton Fellowship**

Awarded by the National Council of Deans of Engineering and Applied Science and the Sandford Fleming Foundation, the Wighton Fellowship is a national award that recognizes excellence in the development and teaching of laboratory-based courses in Canadian undergraduate engineering programs.
Dr. Sheryl Lightfoot investigates the implications of global Indigenous rights for Indigenous peoples, states, and the international system, and seeks to clarify what the implementation of Indigenous peoples’ rights means in theory and in practice.

Her 2016 book, *Global Indigenous Politics: A Subtle Revolution*, highlights the fundamental changes involved in Indigenous rights implementation and challenges both states and Indigenous peoples to re-formulate their relationship in accordance with its principles. It is an extension of her PhD dissertation, which won the 2010 Best Dissertation Award in Race and Ethnic Politics from the American Political Science Association.

In 2017, she participated in an international expert group meeting on the implementation of the 2007 United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) and submitted a statement on best practices and challenges to its implementation in North America. UNDRIP, which was fully supported by Canada in 2016, provides international recognition of the inherent human rights of Indigenous peoples, both as individuals and as collectives, with Indigenous self-determination serving as the core element.

Dr. Lightfoot is currently engaged in two SSHRC-funded, major multi-national studies. The first, “The Politics of State Apologies to Indigenous Peoples,” is nearing completion, and the second, “Complex Sovereignties: Theories and Practices of Indigenous Self-Determination in Settler States and the International System,” received a five-year grant in May 2017. She is Anishinaabe from the Lake Superior Band of Ojibwe.

“UBC’s unwavering commitment to ensuring that Indigenous initiatives are central to its mission has helped grow and develop one of the top Indigenous Studies programs in North America and the premier centre for the study of Indigenous politics. Its ongoing support for Indigenous scholarship has significantly contributed to my research success and professional growth.”

Dr. Sheryl Lightfoot
CIHR’s suite of prizes, the CIHR Gold Leaf Prizes, are among the highest honours that can be bestowed on an individual or team for excellence in health research and its translation into benefits for Canadians. Each CIHR Gold Leaf Prize has a value of $100,000. The CIHR Gold Leaf Prize for Impact is awarded to an individual or team for health research with a proven impact on health outcomes, practices, policies, and/or on the health system.

NSeRC’s annual Synergy Awards for Innovation recognize examples of collaboration that stand as models of effective partnership between industry and colleges or universities.

Guy Dumont

Professor, Electrical and Computer Engineering

Dr. Guy Dumont partnered with LionsGate Technologies to develop the Kenek O2, a small, easy-to-use medical diagnostic tool that connects to the audio port of a mobile device. Patients clip a sensor onto their finger, and an app on the device tests for signs of easily preventable diseases such as pneumonia, sepsis and pre-eclampsia. Currently, the sensor—a pulse oximeter—measures blood oxygen saturation and heart rate, but Dumont and LionsGate Technologies have plans to improve their device to measure multiple vital signs including respiration, and—through the use of additional sensors—blood pressure and body temperature, greatly expanding the range of ailments it can diagnose.

Since 1992, the British Columbia Centre for Excellence in HIV/AIDS (BC-CfE) has been providing care and treatment for those living with HIV. Its influence stretches from the molecule to the community; from work on clinical trials of HIV drugs to educating health care professionals; to promoting evidence-based policy to help protect people from contracting the virus. In 1996, BC-CfE played the lead role in the development and implementation of HAART as the first effective treatment for HIV and AIDS. In 2006, the centre initiated its made-in-BC Treatment as Prevention® (TasP®) strategy, which expanded coverage to all HIV-infected individuals in defined jurisdictions in order to stop the HIV/AIDS pandemic. In BC alone, this has led to a nearly 90% reduction in AIDS incidence and AIDS-related mortality, with a concomitant 80% reduction in new diagnoses. The BC-CfE has started to adapt, evaluate and expand TasP® to other contagious diseases to promote better individual and public health outcomes. The next target is hepatitis C virus (HCV) infection.
Dr. Michael Hayden focuses on understanding the genetic roots of illness and using that understanding to develop better approaches to diagnosis and treatment for patients. He researches diabetes, coronary artery disease and the genetic basis for adverse drug reactions in children. Much of his career has also been dedicated to understanding the development of Huntington Disease (HD) and finding ways to predict and improve outcomes for patients and their families. His efforts resulted in the approval of a drug to treat symptoms of HD, the second drug for HD ever to be approved.

RECENT RECOGNITION:
- PharmaVOICE, One of 100 Most Inspiring People in the Pharmaceutical Industry, 2015
- University of Göttingen, Honorary Doctor of Medicine, 2014
- Personalized Medicine World Conference, Luminary, 2014
- Huntington’s Disease Society of America, Milton Wexler Research Excellence Award, 2013
- Profiled in 50 Canadians Who Changed the World, Ken McGoogan, 2013

Dr. Judith Hall has been at the international forefront of genetics and pediatrics for more than four decades. She specialized in the genetic factors that affect the lack of growth in children, including the mechanism of neural tube defects, the genetics of short stature, and the genetics of connective tissue disorders such as arthrogryposis, dwarfism and monozygotic twins. Dr. Hall helped to clarify medical understanding of how folic acid helps reduce birth defects, and identified many new syndromes and types of arthrogryposis and short stature. Data from her research is available in the Handbook of Physical Measurements, an essential resource for physicians worldwide.

OTHER RECENT AWARDS:
- Canadian College of Medical Genetics, Founders Award for Excellence in Medical Genetics, 2013
A leader in the fields of perinatal and women’s health, Dr. Dorothy Shaw is highly regarded as an advocate for women’s rights and for improving the health of women, newborns and children, internationally. As president of the Society of Obstetricians and Gynaecologists of Canada and as the first woman president of the International Federation of Gynaecologists and Obstetricians, she was instrumental in developing many reproductive health policies in Canada and throughout the world. In 2010, Dr. Shaw was appointed as Canada’s spokesperson for the G8/G20 Summits for the Partnership for Maternal, Newborn and Child Health, a global partnership working to improve the health of all women and children. The same year, she was invited to be the inaugural chair of the Canadian Network for Maternal, Newborn Child Health. Dr. Shaw also produced an award-winning documentary, The Cutting Tradition: Insights into FGM.

Other recent awards:
- Canadian Society of Physician Executives, Chris Carruthers Excellence in Medical Leadership Award, 2015
- American College of Obstetricians and Gynaecologists Distinguished Service Award, 2015
The Pierre Elliott Trudeau Foundation fellowship offers sustained support to intellectuals who are recognized for their productivity, their commitment to communicating their findings to the public and their ability to imagine innovative solutions to some of the major issues facing society.

This award will support a team co-led by Karen Bakker (UBC) and Aimée Craft (University of Ottawa) which includes Indigenous knowledge keepers, community partners, scholars and artists, as well as UBC faculty members Gordon Christie, Glen Coulthard, Michelle Daigle, Leila Harris, Sarah Hunt, Mark Johnson and Linc Kesler.

Acknowledgement of territory:
The meeting pictured below took place in the territory of Skwxwú7mesh Úxwumixw (Squamish Nation).
## Royal Society of Canada

The fellowship of the Royal Society of Canada is comprised of distinguished scholars from all branches of learning who have made remarkable contributions in the arts, the humanities and the sciences as well as in Canadian public life.

### 2016

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<thead>
<tr>
<th>Name</th>
<th>Field</th>
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<tbody>
<tr>
<td>Samuel Aparicio</td>
<td>Professor, Pathology and Laboratory Medicine</td>
<td>McGill University, Faculty of Medicine</td>
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<tr>
<td>Charlotte Froese Fischer</td>
<td>Affiliate Professor, Computer Science</td>
<td>UBC</td>
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<tr>
<td>Steven Heine</td>
<td>Professor, Psychology</td>
<td>UBC</td>
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<tr>
<td>Tina Loo</td>
<td>Professor, History</td>
<td>UBC</td>
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<tr>
<td>Bonny Norton</td>
<td>Professor, Language and Literacy Education</td>
<td>UBC</td>
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<td>Dominique Weis</td>
<td>Professor, Earth, Ocean and Atmospheric Sciences</td>
<td>UBC</td>
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### 2015

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<tr>
<td>Jörg Bohlmann</td>
<td>Professor, Forest Science and Botany</td>
<td>UBC</td>
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<tr>
<td>Robert Brunham</td>
<td>Professor, Infectious Diseases</td>
<td>UBC</td>
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<tr>
<td>Anthony Farrell</td>
<td>Professor, Zoology, and Land and Food Systems</td>
<td>UBC</td>
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<tr>
<td>Roger Francois</td>
<td>Professor, Earth, Ocean and Atmospheric Sciences</td>
<td>UBC</td>
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<tr>
<td>Joshua Mostow</td>
<td>Professor, Asian Studies</td>
<td>UBC</td>
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<td>Gail Murphy</td>
<td>Professor, Computer Science</td>
<td>UBC</td>
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<td>Pitman Potter</td>
<td>Professor, Peter A. Allard School of Law</td>
<td>UBC</td>
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<tr>
<td>John Klironomos</td>
<td>Professor, Biology</td>
<td>UBC</td>
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<tr>
<td>Mark MacLachlan</td>
<td>Professor, Chemistry</td>
<td>UBC</td>
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<tr>
<td>Harvey Richer</td>
<td>Professor, Physics and Astronomy</td>
<td>UBC</td>
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<tr>
<td>Michael Richards</td>
<td>Professor, Anthropology</td>
<td>UBC</td>
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<tr>
<td>David Wilkinson</td>
<td>Professor, Chemical and Biological Engineering</td>
<td>UBC</td>
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### 2013

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<th>Name</th>
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<tr>
<td>Timothy Brook</td>
<td>Professor, History</td>
<td>UBC</td>
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<tr>
<td>Richard Keith Humphries</td>
<td>Professor, Medicine, Terry Fox Laboratory, and BC Cancer Agency</td>
<td>UBC</td>
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<tr>
<td>Peter Lansdorp</td>
<td>Professor, Medical Genetics, Terry Fox Laboratory, and BC Cancer Agency</td>
<td>UBC</td>
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<td>Victor Leung</td>
<td>Professor, Electrical and Computer Engineering</td>
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<td>Douglas Oldenburg</td>
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<td>Jamie Peck</td>
<td>Professor, Geography</td>
<td>UBC</td>
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<tr>
<td>Evan Thompson</td>
<td>Professor, Philosophy</td>
<td>UBC</td>
</tr>
</tbody>
</table>

### UBC Faculty Members

UBC faculty members continue to be recognized by their peers, with many being honoured as fellows of national and international academic societies.
Members are elected to the National Academy of Sciences in recognition of their distinguished and continuing achievements in original research. Membership is a widely accepted mark of excellence in science and is considered one of the highest honours that a scientist can receive. The NAS membership totals approximately 2,250 members and nearly 440 foreign associates, of whom approximately 200 have received Nobel Prizes.

**American Association for the Advancement of Science**

Election as a Fellow of the American Association for the Advancement of Science is an honour bestowed upon members by their peers. Fellows are recognized for meritorious efforts to advance science or its applications. In a tradition stretching back to 1874, these individuals are recognized for their extraordinary achievements across disciplines.

- **2017**
  - Purang Abolmaesumi
    - Professor, Electrical, and Computer Engineering

- **2016**
  - Jehannine Austin
    - Associate Professor, Psychiatry, and Medical Genetics
  - Molly Elizabeth Babel
    - Associate Professor, Linguistics
  - Roman Krems
    - Professor, Theoretical Chemistry
  - Philippe Tortell
    - Professor, Earth, Ocean, and Atmospheric Sciences
  - Katherine White
    - Professor, Sauder School of Business

**Canada Council for the Arts Killam Research Fellowship**

The Killam Research Fellowships are release time awards that provide support to scholars of exceptional ability who are engaged in research projects of broad significance and widespread interest within the disciplines of the humanities, social sciences, natural sciences, health sciences, engineering, or studies linking any of these disciplines.

- **2017**
  - Dominic Lopes
    - Professor, Philosophy

- **2016**
  - Susanna Braund
    - Professor, Classical, Near Eastern, and Religious Studies

- **2015**
  - Steve Withers
    - Professor, Chemistry and Biochemistry and Molecular Biology

- **2014**
  - Laurel Schafer
    - Professor, Chemistry
  - Steve Hallam
    - Associate Professor, Microbiology and Immunology
  - John Klironomos
    - Professor, Microbiology
  - Daniel Pauly
    - Professor, Institute for the Oceans and Fisheries, and Zoology

**College of New Scholars, Artists and Scientists**

The College of New Scholars, Artists and Scientists is Canada’s first national system of multidisciplinary recognition for the emerging generation of Canadian intellectual leadership. The Members of the College are Canadians and Permanent Residents who, at an early stage in their career, have demonstrated a high level of achievement.

- **2017**
  - George Belliveau
    - Professor, Language and Literacy Education

- **2016**
  - Kai Chan
    - Professor, Institute for Resources, Environment and Sustainability

- **2015**
  - Christina Laffin
    - Associate Professor, Asian Studies
  - Joanna McGrenere
    - Professor, Computer Science
  - Christian Steidl
    - Associate Professor, Pathology and Laboratory Medicine, BC Cancer Agency
  - Zhen (Jane) Wang
    - Professor, Electrical, and Computer Engineering

**Royal Society**

**Nobel Laureates**

- **2017**
  - Richard H. Thaler
    - Economic Sciences

- **2016**
  - Purang Abolmaesumi
    - Economics

- **2013**
  - Sally Otto
    - University Killam Professor, Zoology

- **2012**
  - Dolph Schluter
    - Professor, Zoology

- **2011**
  - Philip Hieter
    - Professor, Medical Genetics, and Biochemistry and Molecular Biology

- **2010**
  - Steve Withers
    - Professor, Chemistry, and Biochemistry and Molecular Biology

- **2009**
  - Steve Hallam
    - Associate Professor, Microbiology and Immunology

- **2008**
  - John Klironomos
    - Professor, Microbiology

- **2007**
  - Daniel Pauly
    - Professor, Institute for the Oceans and Fisheries, and Zoology...
Canadian Academy of Health Sciences

Induction into the Canadian Academy of Health Sciences as a Fellow is considered one of the highest honours within Canada’s academic community. CAHS Fellows, who serve as unpaid volunteers, are nominated by their institutions and peers and selected in a competitive process based on their internationally recognized leadership, academic performance, scientific creativity and willingness to serve.

2017
Santa J. Ono
President and Vice-Chancellor

Michael Coughtrie
Professor and Dean, Pharmaceutical Sciences

Lara Boyd
Associate Professor, Physical Therapy

Jehannine Austin
Associate Professor, Psychiatry, and Medical Genetics

2016
Timothy Oberlander
Professor, Developmental Pediatrics

American Academy of Arts and Sciences

The Academy membership encompasses over 4,600 Fellows and 600 Foreign Honorary Members and reflects the full range of disciplines and professions: mathematics, the physical and biological sciences, medicine, the social sciences and humanities, business, government, public affairs and the arts. Among the Academy’s Fellows are more than 250 Nobel laureates and 60 Pulitzer Prize winners.

2016
Sally Otto
University Killam Professor, Zoology

2014
Janet Werker
Professor, Psychology

2013
Michael C. Whitlock
Professor, Zoology

2015
Dana Devine
Professor, Pathology and Laboratory Medicine

Michael MacEntee
Professor Emeritus, Prosthodontics

Jean Shoveller
Professor, School of Population and Public Health

Colleen Varcoe
Professor, Nursing

Roger Wong
Clinical Professor, Geriatric Medicine

2014
Steven J. M. Jones
Professor, Medical Genetics

Adeera Levin
Professor, Nephrology

Victor Ling
Professor, Pathology and Laboratory Medicine

Kirk Raymond Schultz
Professor, Hematology and Oncology, and Pediatrics

Garth Loren Warnock
C.N. Woodward Professor, Surgery

2013
Carolyn Gotay
Professor, School of Population and Public Health

Kendall Ho
Professor, Emergency Medicine

Elizabeth Saewyc
Professor, Nursing

Canadian Academy of Engineering

Election to the Canadian Academy of Engineering is one of the highest professional honours accorded an engineer. Fellows have distinguished themselves in different sectors including business, academia and government, and in different roles such as business management, executive management, technical and university faculty.

2017
Choon (Jim) Lim
Professor, Chemical and Biological Engineering

2016
Xiaotao (Tony) Bi
Professor, Chemical and Biological Engineering

Dharma Wijewickreme
Professor, Civil Engineering

Panos Nasiopoulos
Professor, Electrical and Computer Engineering

Tarek Sayed
Professor, Civil Engineering

James Olson
Professor, Mechanical Engineering

Marc Parlane
Professor, Civil Engineering

Perry Adeb
Professor, Civil Engineering

2015
Xiaotao (Tony) Bi
Professor, Chemical and Biological Engineering

2014
Dharma Wijewickreme
Professor, Civil Engineering

Panos Nasiopoulos
Professor, Electrical and Computer Engineering

Tarek Sayed
Professor, Civil Engineering

James Olson
Professor, Mechanical Engineering

Marc Parlane
Professor, Civil Engineering

National Academy of Engineering

Election to the National Academy of Engineering is among the highest professional distinctions accorded to an engineer. Elected by their peers, members have distinguished themselves in business and academic management, in technical positions, as university faculty and as leaders in government and private engineering organizations.

2017
Marc Parlane
Professor, Civil Engineering

John Simon Guggenheim Memorial Foundation

Guggenheim Fellowships are intended for individuals who have demonstrated exceptional capacity for productive scholarship or exceptional creative ability in the arts. The Foundation receives approximately 3,000 applications each year: approximately 175 Fellowships are awarded.

2017
Bryan Gick
Professor, Linguistics

2015
Michael Doebeli
Professor, Zoology and Mathematics

Dominic Lopes
Professor, Philosophy

2014
Xiaotao (Tony) Bi
Professor, Chemical and Biological Engineering

2013
Dharma Wijewickreme
Professor, Civil Engineering

Panos Nasiopoulos
Professor, Electrical and Computer Engineering

Tarek Sayed
Professor, Civil Engineering

James Olson
Professor, Mechanical Engineering

Marc Parlane
Professor, Civil Engineering

Perry Adeb
Professor, Civil Engineering
Glenda Laws Award
The Glenda Laws Award recognizes early to mid-career scholars for outstanding contributions to geographic research on social issues. Administered by the American Association of Geographers and endorsed by members of the Institute of Australian Geographers, the Canadian Association of Geographers and the Institute of British Geographers, the annual award is named in memory of Glenda Laws—a geographer who brought energy and enthusiasm to her work on issues of social justice and social policy.

2017
Sarah Hunt
ASSISTANT PROFESSOR, FIRST NATIONS AND INDIGENOUS STUDIES, AND GEOGRAPHY

2014
Juanita Sundberg
ASSOCIATE PROFESSOR, GEOGRAPHY

National Academy of Inventors
Election to National Academy of Inventors Fellow status is the highest professional distinction accorded solely to academic inventors who have demonstrated a prolific spirit of innovation in creating or facilitating outstanding inventions that have made a tangible impact on quality of life, economic development and the welfare of society. There are 912 Fellows worldwide representing more than 250 prestigious universities and governmental and non-profit research institutes. Collectively, the Fellows hold more than 32,000 issued U.S. patents, which have generated over 9,400 licensed technologies and companies, created more than 1.3 million jobs and generated over $137 billion in revenue.

2017
Pieter Cullis
PROFESSOR, BIOCHEMISTRY AND MOLECULAR BIOLOGY

2016
Terrance Snutch
PROFESSOR, PSYCHIATRY, AND ZOOLOGY

2015
Edith McGeer
PROFESSOR EMERITUS, PSYCHIATRY

Patrick McGeer
PROFESSOR EMERITUS, PSYCHIATRY

2013
Santa J. Ono
PRESIDENT AND VICE-CHANCELLOR

The Royal Society
The Royal Society is a self-governing Fellowship comprised of the most eminent scientists, engineers and technologists from the UK and the Commonwealth. Fellows and Foreign Members are elected for life through a peer review process on the basis of excellence in science.

2017
Gordon Slade
PROFESSOR, MATHEMATICS

2015
Natalie Strynadka
PROFESSOR, BIOCHEMISTRY AND MOLECULAR BIOLOGY

For the most current list of major award winners, please visit: RESEARCH.UBC.CA/WINNINGSCHOLARSHIP

Unless otherwise noted, all photography by Paul Joseph on location at The Djavad Mowafaghian Centre for Brain Health, and Orchard Commons, UBC Vancouver campus.
RESEARCH.UBC.CA/WINNINGSCHOLARSHIP