Professor Victoria M Kaspi
Professor, Lorne Trottier Chair, Canada Research Chair,
Director, McGill Space Institute
McGill University
Canada

Martha Crago, PhD, C.M.

Vice-Principal (Research + Innovation)
McGill University
James Administration Building
845 Sherbrooke Street West, room 419
Montreal, Quebec H3A 0G4 Canada

Vice-principale (recherche + innovation)
Université McGill
Pavillon James de l'administration
845, rue Sherbrooke Ouest, bureau 419
Montréal (Québec) H3A 0G4 Canada

Tel./tél. : (514) 398-2995
Fax/téléc. : (514) 398-8257
E-mail/courriel : martha.crago@mcgill.ca

December 11, 2019

Selection Committee
Albert Einstein World Award of Science
World Scientific Council
Case Postale 8, 1630 Bulle 1
Switzerland

Dear Members of the Selection Committee,

It is a genuine pleasure to nominate Professor Victoria M. Kaspi, Lorne Trottier Chair in Astrophysics and Cosmology and Canada Research Chair in Observational Astrophysics, Tier 1, for the Albert Einstein World Award of Science. Professor Kaspi is a world leader in one of the most exciting areas of modern science: astrophysics. Her research focuses on neutron stars: dense, degenerate stellar remnants of the gravitational collapse of massive stars. Neutron stars embody physics at the extremes of density, of gravity and of magnetic field.

In the context of the Albert Einstein World Award of Science, we put forward Professor Kaspi's candidacy based on her seminal and groundbreaking work involving dense stellar objects. Her research has had a significant impact on nearly every aspect of neutron star astrophysics, resulting in no fewer than 27 papers published in Nature or Science, with 13 since 2010, as well as over 24,000 citations to her 306 refereed papers to date!

Professor Kaspi's numerous scientific achievements are well summarized in the attached resume. In particular, Professor Kaspi has made landmark discoveries regarding "magnetars," neutron stars having the highest magnetic fields known in the Universe. Using a novel technique in X-ray astronomy, she proved that Anomalous X-ray Pulsars, a mysterious class of stellar objects, are actually magnetars. She and her students have demonstrated that these objects have internal and external structures different from conventional neutron stars. Her determined pursuit of the high magnetic field radio pulsars as transition objects between the conventional neutron star population and the magnetars has resulted in a tremendous success. More recently she has devoted her efforts to the study of a new phenomenon, the Fast Radio Burst (FRB). Here too her leadership has shown up. She found the first repeating FRB. She also became the leader in adapting the Canadian CHIME telescope to study FRB. As shown in her two recent Nature papers, this facility has rapidly carved out world leadership in the study of FRB.

Professor Kaspi and her team have carried out several extraordinary research projects, as outlined below. (1) Groundbreaking work on binary and millisecond pulsars – the fastest

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rotating stars known. In fact, she led the team that found the most rapidly rotating neutron star ever discovered, which spins with a frequency of 716 Hz. (2) Her group used the famed double pulsar to test Einstein's Theory of General Relativity – the results garnered significant press attention. (3) Her group discovered a key transition object between millisecond pulsars and X-ray binaries. In fact, Professor Kaspi was the first to discover spin-orbit coupling in a binary pulsar. (4) Her team also discovered the first eccentric millisecond pulsar binary in the galactic disk. (5) Her team found the first repeating Fast Radio Burst. (6) Her team on the CHIME/FRB radio telescope found up to now 8 additional repeaters. Many of these discoveries were enabled by her longstanding leadership in major collaborative efforts to search for pulsars.

Professor Kaspi's stature in the international scientific community has not gone unnoticed. She has been the recipient of: the NSERC Gerhard Herzberg Gold Medal for Science and Engineering (2016),the NASA Group Achievement Award, NuSTAR Project Team (2015), the Canadian Association of Astronomy's Peter G. Martin Award (2013), the Natural Sciences and Engineering Research Council of Canada (NSERC) John C. Polanyi Award (2011), the Prix du Québec Marie-Victorin (2009; awarded by the Province of Quebec, this is the highest honour that can be bestowed on a scientist), the Association Francophone pour l'Avancement du Savoir (ACFAS) Urgel Archambault Award for Outstanding Contributions to the Physical Sciences, Mathematics, or Engineering (2007), and the E.W.R. Steacie Memorial Fund's coveted and prestigious Steacie Prize in the Natural Sciences (2006).

Professor Kaspi is a Fellow of the Royal Society (London) (2010), the United States Academy of Sciences (2010) and the Royal Society of Canada (2008). In 2017 she became Companion to the Order of Canada and in 2018 she was made Doctor of Science, honoris causa, University of British Columbia Okanagan. She was elected to the American Academy of Arts & Sciences (2015) and a Fellow of American Physical Society (2014). She also has been honoured with numerous named appointments; more recently the Columbia University Bishop Lectureship (2017), the Princeton University Sackler Lectureship (2017), and the Massachusetts Institute of Technology Pappalardo Lecturer (2013). Her work has also attracted the attention and interest of a discerning philanthropist as she holds McGill University's Lorne Trottier Chair in Astrophysics and Cosmology.

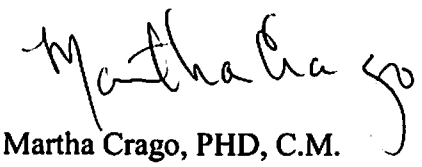
Professor Kaspi runs a large and impressive group of students and postdoctoral fellows, typically with 9-10 graduate students and 3 postdoctoral scholars. She has graduated over 25 MSc and PhD students, the vast majority of whom have gone on to astrophysical research positions at institutions worldwide. She is actively preparing the next generations of astrophysics researchers. Some of her former trainees are now themselves research leaders at major institutions, including the United States National Radio Astronomy Observatory, University of Hong Kong, University of Sydney, Shanghai Observatory, Astronomical Institute Anton Pannekoek, Amsterdam, University of Southampton, Lawrence Livermore National Laboratories, Purdue University and Franklin & Marshall College.

Professor Kaspi is notable for her ability to convey her work clearly and without pretense to students of all levels and to the public. She has delivered prestigious named lectures at institutions around the world. She is often quoted in the popular press and she is a frequent guest on Canadian radio shows. She has participated in television and video work, for example,

appearing as an expert panelist on NASA's "Space Science Update" and in a Canadian Space Agency video promoting space science for high school students across Canada. She is a recognized ambassador of science and a valued role model.

Professor Kaspi has remained at the forefront of rapid developments in science and is a world leader in the study of neutron stars. Her highly lauded work is at the cutting edge of current research in physics and indeed, of all science. Professor Kaspi's record of accomplishments is simply outstanding by any quantitative measure. She is a very deserving candidate for the Albert Einstein World Award of Science, and I enthusiastically put her name forward for consideration.

Sincerely,



Martha Crago, PHD, C.M.

c.c.: Prof. R. Bruce Lennox, Dean, Faculty of Science
Prof. Sangyong Jeon, Chair, Department of Physics

HARVARD UNIVERSITY

60 Garden Street, MS 51, Cambridge, MA 02138
Phone: (617) 496-6808 Fax: (617) 495-7093
Email: aloeb@cfa.harvard.edu Website: http://www.cfa.harvard.edu/~aloeb

Professor Abraham Loeb
Frank B. Baird, Jr. Professor of Science
Chair, Department of Astronomy
Director, Institute for Theory & Computation (ITC)

December 6, 2019

Selection Committee
Albert Einstein World Award of Science
World Cultural Council
Case Postale 8
1630 Bulle 1
Switzerland

Dear Members of the Selection Committee,

It gives me great pleasure to support the nomination of Dr. Victoria (Vicky) Kaspi to the World Cultural Council Albert Einstein World Award of Science. I first met Dr. Kaspi when she was appointed as an assistant professor at MIT a decade ago.

Let me start by stating that if you had asked me who is the leading astrophysicist in Canada under the age of 50, I would have definitely referred you to Dr. Kaspi. She is without a doubt a world leader in studies of neutron stars and her research is marked with unparalleled originality and exceptional leadership. Dr. Kaspi's research group at McGill university produces many of the most exciting results in this field and puts Canada at the cutting-edge of high-energy astrophysics. I know for a fact that major US universities such as Princeton, Harvard, or MIT, would have been eager to bring Dr. Kaspi to their faculty if only she had not preferred to reside in her home country.

One of Vicky's recent discoveries involved observational evidence that two sets of astrophysical sources (soft gamma-ray repeaters and anomalous X-ray pulsars) are the same, originating from *magnetars* – namely neutron stars with the strongest magnetic field known anywhere of up to $\sim 10^{15-16}$ gauss. This discovery opens the door for future studies of novel effects that cannot not be realized in less extreme magnetic and gravitational fields. Five years ago Vicky's group discovered the fastest rotating pulsar, which offers new constraints on the structure of neutron stars and their volnerability to the r-mode instability.

Dr. Kaspi's research is marked with originality. She is a pioneer in her discipline and a dedicated leader of a sizeable research group of students and postdocs. Dr. Kaspi's achievemnets and dedication to science are particularly impressive given the fact that she gave birth and raised three children while making important new discoveries. Her integrity and dedication to values are evident from her interactions with people on the personal and professional levels.

I have no doubt that Dr. Kapsi's work deserves to be recognized by the World Cultural Council Albert Einstein World Award of Science. She is certainly on the track of becoming one of the leading observers of her generation in the world.

With kind regards,

Abraham Loeb
Frank B. Baird, Jr. Professor of Science
Chair, Department of Astronomy
Director, *Institute for Theory & Computation*
Harvard University

COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK

DEPARTMENT OF PHYSICS

November 24, 2019

Dear Nominating Committee:

This letter is written in strong endorsement of the nomination of Professor Victoria (Vicky) Kaspi for the Albert Einstein World Award of Science of the World Cultural Council.

I am writing in my capacity as a theoretical astrophysicist whose research touches closely upon those many areas to which Dr. Kaspi's has made fundamental contributions. For context on my qualifications, I am a tenured professor at Columbia University and a recent recipient of the New Horizons Breakthrough Prize in Fundamental Physics and the Bruno Rossi Prize of the American Astronomical Society. Although I have conversed with Dr. Kaspi on multiple occasions, we have not directly collaborated; I therefore feel both qualified and independent to provide an fair assessment of her accomplishments and outstanding stature in the field of high energy astrophysics.

Neutron stars, the incredibly dense cores left over following the explosion of massive stars, provide unparalleled laboratories for studying the fundamental physics of gravity and the behavior of matter at supranuclear densities. However, not all neutron stars are the same – much like people, they come in different types and gradations, depending on their intrinsic properties at birth and the external environments they are immersed in.

Dr. Kaspi has contributed in foundational ways to our understanding of the most extreme types of neutron stars ever discovered – the "magnetars". Due to their immensely strong magnetic fields, which can exceed 10^{14} Gauss, the behavior and appearance of magnetars are completely novel. While the majority of neutron stars derive their power from their rapid rate of rotation, magnetars are fundamentally powered by the energy stored in their magnetic fields. Due to the dynamical manner by which this energy is released (often sporadically) from their surfaces, magnetars show fascinatingly complex (and still poorly understood) temporal behavior, including the most powerful flares in our Galaxy (a magnetar giant flare in 2004 was so powerful that it altered the ionization balance in the upper atmosphere of the Earth). Young magnetars in distant galaxies have been implicated as the "central engines" responsible for powering a variety of transient phenomenon at the forefront of time-domain and multi-messenger astrophysics: gamma-ray bursts, neutron star mergers, and fast radio bursts (more on those below).

Although we now appreciate the basic properties of magnetars, and are increasingly applying this knowledge to many areas of astrophysics, their observational identification as such was not always so clear. For many years after the class of "Anamalous X-ray Pulsars" (AXPs) were first discovered, many attributed these objects to neutron stars accreting matter from a binary star companion, rather than one whose X-ray emission was an intrinsic property of the neutron star itself. However, in the early 2000s, Dr.

Pupin, Room 909 538 West 120th Street, New York, NY 10027 212-854-9702

Kaspi employed a novel observational technique—phase-coherent X-ray timing—to show that AXPs do not experience changes in their rotational period, as would be expected if they were accreting gas from a companion star. Then, in discovering X-ray bursts from AXPs (e.g. Kaspi et al. 2003), Kaspi provided a compelling connection to the soft gamma-ray repeaters, outbursting neutron stars previously shown to best be explained as magnetars.

In the decade since these discoveries, arguably no individual researcher has contributed more to our understanding of how magnetars fit into the general "zoo" of neutron stars than Dr. Kaspi. Her work connecting their X-ray outbursting behavior (how magnetic energy is being released) to their timing properties of magnetars (how the magnetosphere and its resulting torques on the star are changing) has been fundamental to our understanding of the cause of the flares and the key differences in the structure and evolution of the magnetospheres of magnetars compared to those ordinary (less strongly magnetized) neutron stars.

I am personally in debt to Dr. Kaspi, as her work arrived to me as a graduate student in the mid-2000s at an opportune time, helping to feed my own theoretical efforts to connect the birth of magnetars to gamma-ray bursts and neutron star mergers. More broadly, none of the speculative work on magnetar birth, which as a result of LIGO's discovery of a neutron star merger now resides on forefront topics in multi-messenger astrophysics, would be possible without the ground-laying work done characterizing the Galactic magnetar population by Dr. Kaspi and collaborators.

Though Kaspi continues her work on magnetars and pulsars today, she is once again leading a revolution, in an entirely new field: "Fast Radio Bursts" (FRB). As their name suggests, FRBs are luminous, millisecond-duration radio pulses, which are believed to originate from cosmological distances. Despite being first discovered over 10 years ago, the astrophysical origin of FRBs remains mysterious, in large part because the current sample of bursts is insufficiently large to ascertain their statistical properties, or to connect them to each other (e.g. "Do FRBs repeat?") and their environments (e.g. host galaxies, counterparts at other electromagnetic wavelengths).

Under Dr. Kaspi's leadership, the Canadian CHIME Telescope—exclusively conceived as cosmology experiment—has been transformed into an FRB discovery machine. As of this writing, it is likely that CHIME has already discovered more FRBs than all other radio telescopes combined. Furthermore, they have discovered that at least nine FRB sources repeat, providing compelling evidence that a large fraction of FRBs do not arise from catastrophic events. I am excited about the new discoveries in store for the FRB field over the next few years, many of which CHIME will uniquely enable.

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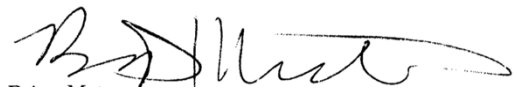
DEPARTMENT OF PHYSICS

My personally favorite model postulates that FRBs arise from young flaring magnetars at particularly "hyper-active" stages in their early lives. Ironically, then, Dr. Kaspi may once again play a key role in revealing the properties of magnetars, this time of the "wild days of their youth".

In summary, Dr. Kaspi has made—and continues to make—fundamental contributions to our understanding of the most extreme form of stars known in our universe. She has accomplished this by applying creative observational techniques and by demonstrating the strong leadership qualities necessary to direct large and diverse research teams towards a common goal. Her discoveries regarding the existence and behavior of Galactic magnetars have provided essential motivation for researchers such as myself to apply similar physical considerations in the more extreme extragalactic environments (for which the quality of observations is much poorer) at the forefront of high energy and multi-messenger astrophysics.

For all of these reasons, Professor Victoria Kaspi is eminently worthy of the "Albert Einstein World Award" and her nomination has my full and enthusiastic support.

Sincerely Yours,



Brian D. Metzger

Pupin, Room 909 538 West 120th Street, New York, NY 10027 212-854-9702

Victoria M. Kaspi, CC, FRS, FRSC Resume of Achievements

Victoria Kaspi is an observational astrophysicist, a Professor of Physics, mentor to dozens of students, and Director of the McGill Space Institute. Her award-winning research uses the world's most powerful telescopes, both ground- and space-based, to answer fundamental questions about our Universe and its contents. More specifically, Kaspi's research has focused on the study of neutron stars and their utility for constraining basic physics. More recently, Kaspi has turned her attention to the mystery of Fast Radio Bursts and has led collaborations that have made fundamental discoveries in this burgeoning field of astrophysics.

Kaspi's early work as a graduate student focused on radio pulsars, rapidly rotating highly magnetized neutron stars. Using the largest telescopes on the planet, Kaspi's PhD work layed the foundation for using pulsars to detect gravitational waves, ripples in space-time predicted by Einstein. This work formed the basis for major world-wide efforts today in this field by dozens of astrophysicists. Kaspi also did important work in studying the rotation of neutron stars, and made important contributions in the study of gamma-ray emission from radio pulsars. As a young postdoctoral fellow, Kaspi also demonstrated, again using a radio pulsar, that supernovae – the cataclysmic explosions of massive stars that produce neutron stars – can be asymmetric, a fact that is a key constraint in supercomputer simulations of the demise of stars.

As a young postdoctoral fellow, Kaspi chose to venture into new territory – X-ray astronomy and made seminal contributions on a variety of topics. In one case she demonstrated that an apparently older neutron star was in fact very young, calling into question the ages of many such objects. Kaspi then made a truly landmark discovery, demonstrating the existence of ultra-highly magnetized neutron stars, the so-called "magnetars." Specifically Kaspi solved a decade-old puzzle regarding a class of neutron stars identified as "anomalous," and showed that they were magnetars, a discovery that in large part led to the acceptance of the existence of these objects by the broad astrophysical community. Today, thanks in large part to Kaspi's work, magnetars are invoked broadly to explain a wide variety of dramatic and energetic cosmic events, ranging from gamma-ray bursts to ultra-luminous supernovae, to Fast Radio Bursts, and have now been written into undergraduate textbooks.

While doing her seminal work on magnetars, Kaspi also continued radio work on neutron stars and along the way, her research group discovered what remains today the fastest rotating star known. This neutron star rotates 716 times per second, and provides an interesting constraint on the nature of ultra-dense matter. Her group also discovered a record 21 radio pulsars in one star cluster, as well as a crucial "missing link" in our understanding of the interaction of binary star systems containing neutron stars.

Her continued work at the forefront of X-ray and radio observations of neutron stars enabled Kaspi to recognize common features in properties of radio pulsars and magnetars, and to make sense out of what appeared to the community to be a bewildering diversity which she coined "The Neutron Star Zoo." Kaspi and her trainees were then able to discovery key "Rosetta Stone" objects that illucidated the connnections among previous disparate populations of neutron stars, and achieve as she termed it a "Grand Unification" of the neutron star population.

Most recently Kaspi has again shifted research focus to a fresh astrophysical puzzle, that of Fast Radio Bursts. Lasting only a few thousandths of a second and coming from

far outside our Milky Way galaxy, the origin of FRBs is presently unknown. Kaspi has emerged as one of the world's leaders in this field, leading various research collaborations aimed at understanding this mysterious yet ubiquitous cosmic phenomenon.

Specifically, Kaspi is the leader of two major research collaborations. One is doing the most sensitive sky survey ever done for radio pulsars, the PALFA survey using the Arecibo Observatory in Puerto Rico. This survey also searches for FRBs and found the first repeating FRB, which enabled the first FRB localization and host-galaxy identification, a feat that confirmed the cosmological distance scale of these sources. Kaspi is also leader of the Canadian Hydrogen Intensity Mapping Experiment (CHIME) Fast Radio Burst Project, an initiative to use the newly commissioned CHIME radio telescope to study the mystery of Fast Radio Bursts. Her team on the CHIME/FRB project published 4 papers in 2019 announcing first results, including 2 in Nature which were featured on the cover of the magazine. One of these two reported just the second repeating FRB, and her team later published 8 additional repeaters, thus identifying a new population of sources which the world community is now studying. The FRB phenomenon has garnered significant press attention, and in 2019 Kaspi was identified by Nature Magazine as one of "Nature's Top 10 People Who Mattered."

Kaspi has published over 300 papers in refereed journals and has a Hirsh citation index of 83, in the elite of astrophysical researchers worldwide. In 2018-2019, Kaspi was listed as a "Highly Cited Researcher" by the Web of Science, defined as being in the top 1% for citations in her field.

Kaspi's work involves students at every stage of their higher education. She has launched the careers of dozens of scientists and highly skilled industry workers by involving them first-hand in forefront research. Kaspi's research history shows a routine pattern of identifying key scientific questions and methods of answering them, then handing this information off to a trainee to study and eventually lead.

Kaspi also devotes herself to maintaining a world-class research centre, the McGill Space Institute, that has a highly stimulating atmosphere encourating of interaction and collaboration, while at the same time a friendly, warm environment that nurtures and encourages students and faculty alike.

CURRICULUM VITAE

Name: VICTORIA MICHELLE KASPI, CC, FRS, FRSC

Biography: Born in Austin, Texas; June 30, 1967
Married, three children (aged 19 yr, 17 yr, 15 yr)

Address: Physics Department
McGill University, Rutherford Physics Building
3600 University Street, Montreal, QC H3A 2T8
Phone: 514-398-6412 **Fax:** 514-398-3733
Email: vkaspi@physics.mcgill.ca
WWW: http://www.physics.mcgill.ca/∼vkaspi/

Professional Affiliations:
American Astronomical Society, High Energy Astrophysics Division,
Canadian Astronomical Society, International Union of Radio Science
International Union of Pure and Applied Physics

Education:

1993	Princeton University	Ph.D. (Physics)
1991	Princeton University	M.A. (Physics)
1989	McGill University	B.Sc. Honors (Physics)

Research Interests: Neutron stars: timing, high-precision timing, searching, birth properties, evolution, supernova remnant associations, pulsar wind nebulae; binary dynamics, binary evolution, high-energy properties (X-ray, γ-ray).
Radio transients: rotating radio transients, Fast Radio Bursts.

Employment:

2015–	Director	McGill Space Institute
2013–15	Associate Dean, Research & Graduate Education	McGill University, Faculty of Science
2008–9	Visiting Scientist	Canadian Space Agency, Space Sciences Division
2006–	Professor	McGill University, Physics Department
1999–2006	Associate Professor	McGill University, Physics Department
1997–2002	Assistant Professor	Massachusetts Institute of Technology, Physics Department
1997	Hubble Postdoctoral Fellow	Massachusetts Institute of Technology, Center for Space Research
1994–96	Hubble Postdoctoral Fellow	Jet Propulsion Laboratory, IPAC
1994–96	Visiting Associate	California Institute of Technology, Astronomy Department
1994	Higgins Instructor	Princeton University, Physics Department

Awards and Fellowships:

2018	Doctor of Science, honoris causa, University of British Columbia Okanagan
2017	Columbia University Bishop Lectureship
2017	Princeton University Sackler Lectureship
2017	Prix d'excellence du FRQNT
2017	Companion to the Order of Canada
2016	NSERC Gerhard Herzberg Gold Medal for Science and Engineering
2015	NASA Group Achievement Award, *NuSTAR* Project Team
2015	Killam Prize
2015	Election to American Academy of Arts & Sciences
2014	Election as Fellow of American Physical Society
2014	University of Chicago Brinson Lectureship
2014	Caltech Greenstein Lectureship
2013	MIT Pappalardo Distinguished Lectureship
2013	Peter G. Martin Award of Canadian Astronomical Society
2013	Queen Elizabeth II Diamond Jubilee Medal
2012	University of Toronto Helen Sawyer Hogg Distinguished Visitorship
2011	NSERC John C. Polanyi Award
2010	Election to U.S. National Academy of Sciences
2010	Fellow of the Royal Society of London
2010	Killam Research Fellowship
2009	Prix du Quebec Marie-Victorin
2009	California Institute of Technology Moore Scholar
2009	Harvard University Sackler Prize Lecturer
2008	Fellow of Royal Society of Canada
2007	ACFAS Prix Urgel-Archambault
2007	Rutherford Medal in Physics of Royal Society of Canada
2006	Steacie Prize for Natural Sciences
2006-	Lorne Trottier Chair in Astrophysics and Cosmology
2006-	Canada Research Chair in Observational Astrophysics, Tier I
2006-	R. Howard Webster Foundation Fellow of the Canadian Institute for Advanced Research
2005	Salpeter Lectureship, Cornell University
2004	Canadian Association of Physicists Herzberg Medal
2003	NSERC Steacie Fellow
2002	Fellow of Canadian Institute for Advanced Research, Gravity and Cosmology Program
2002	Canadian Institute for Advanced Research Young Explorer Prize
2001-05	Canada Research Chair in Observational Astrophysics, Tier II
1998	Alfred P. Sloan Research Fellowship
1998	Annie Jump Cannon Prize of the American Astronomical Society
1997	Ernest F. Fullam Award of the Dudley Observatory
1993	URSI Young Scientist Award, XXIVth URSI-GA, Kyoto, Japan
1989–90	Joseph Henry Merit Award, Princeton University
1989–92	Natural Sciences and Engineering Research Council of Canada 1967 Graduate Fellowship

Mentoring and Student Supervision:
38 undergraduate student researchers
31 MSc and PhD graduate student researchers
21 postdoctoral fellow researchers
Names, dates, research projects and current positions of former trainees are available upon requests.

Invited Conference Lectures and Colloquia Kaspi gives an average of 9 invited conference talks and/or colloquia worldwide each year. Additionally, she gives an average of 3 lectures aimed at the general public each year, both locally and nationally.

Community Academic Activities (past 7 years):
Principal Investigator, CHIME/FRB Collaboration, 2015-
Principal Investigator, Arecibo L-Band Feed Array Pulsar Survey Consortium, 2012-
Director, Canadian Institute for Advanced Research Gravity & the Extreme Universe Program, 2017- Member, Visiting Committee, Caltech Physics, Math & Astronomy Division, 2018-9
Chair, Astronomy & Subatomic Physics Research Allocation Review Committee, Compute Canada 2016-17, 2017-18, 2018-19
Member, Shaw Prize Selection Committee, 2015-16, 2016-17, 2017-18
Panel Chair, Canada 150 Chairs Multidisciplinary Review Panel, 2017
Chair, Visiting Committee, Harvard University Astronomy Department, 2017
Member, Selection Committee, U.S. National Academy of Sciences Watson Medal, 2017
Member, Selection Committee, U.S. National Academy of Sciences Draper Prize, 2012, 2016
Director Designate, Canadian Institute for Advanced Research (CIFAR) Gravity & Cosmology Program, 2015-7
Chair, Selection Committee, U.S. National Academy of Sciences Watson Medal, 2015
Member, Astronomy & Subatomic Physics Review Committee, Compute Canada 2013, 2014, 2015
Member, NSERC Discovery Grant Review Committee, 2015
Member, Science Review Panel for Square Kilometer Array, 2014
Reviewer, *Hubble* Space Telescope Director's Discretionary Time request, October 2014
Member, NANOGrav Management Team, 2013-2015
Selection Committee, U.S. National Academy of Sciences Watson Medal, 2013, 2014
Member, LIGO Directorate Program Advisory Committee, 2013-2014
Chair, *NuSTAR* Magnetar/Rotation-Powered Pulsar Working Group, 2012-2014
Selection Committee, International Union of Pure and Applied Physics Young Scientist Call, 2012, 2013
Reviewer, Council of Canadian Academies Assessment "Strengthening Canada's Research Capacity: The Gender Dimension", 2012
Reviewer, The Netherlands Organisation for Scientific Research (NWO), 2012
Chair, Arecibo L-Band Feed Array Pulsar Survey Executive Committee, 2007-2013
NuSTAR Central Science Team, 2008-2015
NuSTAR Galactic Science Team Leader, 2008-12

Victoria M. Kaspi, CC, FRS, FRSC
Top 10 Refereed Publications

Items identified with "" have as first author a student or postdoc under my supervision. All students/postdocs under my supervision are underlined.*

1. **Kaspi, V. M.**, Taylor, J. H., Ryba, M. F. "High-Precision Timing of Millisecond Pulsars. III. Long-Term Monitoring of PSRs B1855+09 and B1937+21," *Astrophys. J.*, 428, 713, 1994. (519 citations)
2. **Kaspi, V. M.**, Bailes, M., Manchester, R. N., Stappers, B. W., Bell, J. F. "Evidence for a Neutron Star Birth Kick from a Precessing Pulsar Orbit," *Nature*, 381, 584, 1996. (110 citations)
3. * Gavriil, F. P., **Kaspi, V. M.**, Woods, P. "Magnetar-like X-ray Bursts from an Anomalous X-ray Pulsar," *Nature*, 419, 142, 2002. (195 citations)
4. **Kaspi, V. M.**, Gavriil, F. P., Woods, P. M., Jensen, J. B., Roberts, M. S. E., Chakrabarty, D. "A Major Outburst and Rotational Glitch from the No-Longer-So-Anomalous X-ray Pulsar 1E 2259+586," *Astrophys. J. (Letters)*, 588, L93, 2003. (218 citations)
5. * Faucher-Giguere, C. A., **Kaspi, V. M.** "Birth and Evolution of Isolated Radio Pulsars," *Astrophys. J.*, 643, 332-355, 2006. (451 citations)
6. **Kaspi, V. M.**, "Grand Unification of Neutron Stars," *Proc. Nat. Acad. Sci.*, 107, 7147-7152, 2010. (110 citations)
7. * Olausen, S. A. & **Kaspi, V. M.** "The McGill Magnetar Catalog," *Astrophys. J. Supp.*, 212, 6, 2014. (325 citations)
8. Spitler, L, Scholz, P., ..., **Kaspi, V. M.**, ..., "A Repeating Fast Radio Burst Source," *Nature*, 531, 202, 2016. (344 citations)
9. **CHIME/FRB Collaboration**, "Observations of fast radio bursts at frequencies down to 400 megahertz," *Nature*, 566, 230, 2019. (68 citations)
10. **CHIME/FRB Collaboration**, "A Second Source of Repeating Fast Radio Bursts," *Nature*, 566, 235, 2019. (84 citations)

Victoria M. Kaspi, CC, FRS, FRSC All Refereed Publications

Refereed Publications:

H-index 83; 24,315 citations (average 76.7 citations per paper, 65 papers with >100 citations) as of Dec 8, 2019; source NASA Astrophysical Data System.
Items identified with "" have as first author a student or postdoc under my supervision. Students/postdocs under my supervision are underlined.*

1. * Parent, E., **Kaspi, V. M.**, et al., "Eight Millisecond Pulsars Discovered in the Arecibo PALFA Survey," *Astrophys. J.,* 886, 148, 2019. (21 authors)
2. CHIME/FRB Collaboration, "CHIME/FRB Discovery of Eight New Repeating Fast Radio Burst Sources," *Astrophys. J.*, 885, L24, 2019. (56 authors)
3. * Josephy, A., Chawla, P., Fonseca, E., et al. "CHIME/FRB Detection of the Original Repeating Fast Radio Burst Source FRB 121102," *Astrophys. J.*, 882, L18, 2019. (44 authors)
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