



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



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February 10, 2022

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 16 since 2010, as well as over 32,000 citations to her 346 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), with her research team finding the first repeating FRB. She is also the leader in adapting the Canadian CHIME telescope to study FRB. As shown in her team's recent six papers in *Nature* this facility has rapidly taken a prominent place in the study of FRB. CHIME has recently received the American Astronomical Society's Lancelot M. Berkeley Prize for Meritorious Work in Astronomy (2022) and the Governor General's Innovation Award (2020).

Professor Kaspi and her team have carried out several extraordinary research projects, including:

(1) Groundbreaking work on binary and millisecond pulsars – the fastest rotating stars known. 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. (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 CHIME/FRB team has now published multiple landmark results on FRBs, including the discovery of 20 repeating sources, the discovery of a luminous radio burst from a Galactic magnetar, and the publication of the first major FRB catalog. 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 community is demonstrated by the number of awards bestowed on her: the Shaw prize (2021), the Bakerian Medal and Lecture (2021), the Natural Sciences and Engineering Research Council of Canada (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 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 National Research Council's prestigious Steacie Prize in the Natural Sciences (2006).

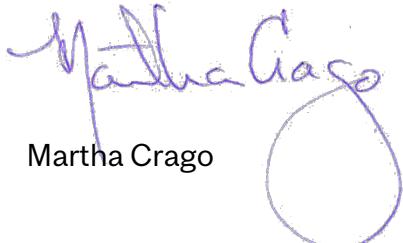
Professor Kaspi is a Fellow of the Royal Society (London) (2010), the United States Academy of Sciences (2010) and the Royal Society of Canada (2008). In 2017 she became Companion to the Order of Canada and in 2018 she was made Doctor of Science, honoris causa, University of British Columbia Okanagan. She was elected to the American Academy of Arts and Sciences (2015) and as a Fellow of the American Physical Society (2014). She also has been honoured with numerous named appointments; Oxford University Hintze Lecturer (2021), Max Planck Institute for Astrophysics Biermann Lectureship (2021), Columbia University Bishop Lectureship (2017), 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.

A true mentor, Professor Kaspi supervises a large and impressive group of students and postdoctoral fellows, typically with 9-10 graduate students and 3-4 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 (California), Purdue University and Franklin and Marshall College (Pennsylvania).

Professor Kaspi is notable for her ability to convey her work clearly and without pretense to students of all levels and to the general public. She is often quoted in the popular press and is a frequent guest on Canadian radio programs. 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.

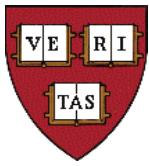
Professor Kaspi has remained at the forefront of rapid developments in science and is a world leader in the study of pulsars, magnetars and Fast Radio Bursts. Her highly lauded work is at the cutting edge of current research in physics and indeed, of all science. Her record of accomplishments is simply outstanding by any quantitative measure. Professor Kaspi 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

c.c.: Professor Bruce Lennox, Dean, Faculty of Science
Professor Sangyong, Chair, Department of Physics



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

February 2, 2022

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 more than 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. Several years ago Vicky's group discovered the fastest rotating pulsar, which offers new constraints on the structure of neutron stars and their vulnerability 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 achievements 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. Kaspi'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,

A. Loeb

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

COLUMBIA UNIVERSITY

IN THE CITY OF NEW YORK

DEPARTMENT OF PHYSICS

February 1, 2022

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, the Bruno Rossi Prize of the American Astronomical Society, and the Blavatnik Awards National Laureate. Although I have conversed with Dr. Kaspi on multiple occasions, we have not directly collaborated; I therefore feel qualified and independent to provide a 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 generating the most powerful flares in our Galaxy (a magnetar flare in 2004 was so powerful that it altered the ionosphere of the Earth). Young magnetars in distant galaxies have been implicated as the “central engines” responsible for powering a variety of explosive phenomenon at the forefront of high-energy 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 “Anomalous X-ray

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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. 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), she 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 flaring 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 of “ordinary” 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 originate from cosmological distances. Despite being first discovered over a decade ago, the astrophysical origins of FRBs remain 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 all 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, CHIME has already discovered more FRBs than all other radio telescopes combined. Furthermore, they have discovered that a large population of FRB sources repeat, providing compelling evidence that many if not most FRBs do not arise from catastrophic events. They have most recently discovered that some FRBs exhibit periodic emission, which is telling us something deep and fundamental about their origins. 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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My personally favorite model for FRBs postulates that they arise from young flaring magnetars at particularly “hyper-active” but short-lived 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
Professor of Physics
Columbia University

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 has led two major research collaborations. One did the most sensitive sky survey ever done for radio pulsars, the PALFA survey using the (now decommissioned) Arecibo Observatory in Puerto Rico. This survey also searched 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 CHIME radio telescope to study the mystery of Fast Radio Bursts. Her team on the CHIME/FRB project has thus far published 26 papers since 2018 announcing first results, including 4 in *Nature*, two of which were featured on the cover of the magazine. One of these two reported just the second repeating FRB, and her team later published 18 additional repeaters, thus identifying a new population of sources which the world community is now studying. The team has also published the first major Fast Radio Burst catalog, which has enabled a wide variety of analyses both by the CHIME/FRB team itself, as well as by the broader community. 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 340 papers in refereed journals and has a Hirsh citation index of 93, in the elite of astrophysical researchers worldwide. Since 2018, Kaspi has been 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 encouraging 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

Raised in Montreal, Quebec

Married, three children (aged 21 yr, 19 yr, 17 yr)

Address: Physics Department

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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
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Awards and Fellowships:

2020 Oxford University Hintze Lectureship

2022 NSERC Brockhouse Award (to CHIME team)

2022 American Astronomical Society Lancelot M. Berkeley Prize
for Meritorious Work in Astronomy (to CHIME/FRB team)

2021 Biermann Lectureship, MPI Garching

2021 Shaw Prize for Astronomy (with Chryssa Kouveliotou)

2021 Fellow of American Astronomical Society

2020 Royal Society Bakerian Medal

2020 Governor General's Innovation Award (to CHIME team)

2020 McGill Alumni Association David Johnston Faculty & Staff Award

2020 McGill University Distinguished James McGill Chair

2019 Nature's Top 10 People Who Mattered in Science

2019 John David Jackson Award for Excellence in Teaching

2018 Doctor of Science, honoris causa, University of British Columbia Okanagan

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

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

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

2006-20 Canada Research Chair in Observational Astrophysics, Tier I

2006- R. Howard Webster Foundation Fellow
of the Canadian Institute for Advanced Research

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

Community Academic Activities: (Last 10 years)

- Principal Investigator, CHIME/FRB Collaboration, 2015-
- Director, Canadian Institute for Advanced Research Gravity & the Extreme Universe Program, 2017-
- Principal Investigator, Arecibo L-Band Feed Array Pulsar Survey Consortium, 2012-
- Member, NOVA International Board, 2021-
- Member, NRC Herzberg Astrophysics Advisory Board, 2019-
- Member, NRC Facilities Review Committee (for Dominion Radio Astrophysical Observatory), 2020-21
- Member, Council of Canadian Academies Panel on NSE Funding, 2020-21
- Chair, Interim Visiting Committee, Harvard University Astronomy Department, 2020
- Reviewer, Science Magazine Newcomb-Cleveland Prize, 2020
- 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, 2019
- 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-
- *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. (553 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. (121 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. (207 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. (225 citations)
5. * Faucher-Giguere, C. A., **Kaspi, V. M.** “Birth and Evolution of Isolated Radio Pulsars,” *Astrophys. J.*, 643, 332-355, 2006. (546 citations)
6. **Kaspi, V. M.**, “Grand Unification of Neutron Stars,” *Proc. Nat. Acad. Sci.*, 107, 7147-7152, 2010. (181 citations)
7. * Olausen, S. A. & **Kaspi, V. M.** “The McGill Magnetar Catalog,” *Astrophys. J. Supp.*, 212, 6, 2014. (474 citations)
8. Spitler, L., Scholz, P., ..., **Kaspi, V. M.**, ..., “A Repeating Fast Radio Burst Source,” *Nature*, 531, 202, 2016. (565 citations)
9. **CHIME/FRB Collaboration**, “Observations of fast radio bursts at frequencies down to 400 megahertz,” *Nature*, 566, 230, 2019. (158 citations)
10. **CHIME/FRB Collaboration**, “A Bright, Millisecond-Duration Radio Burst from a Galactic Magnetar,” *Nature*, 587, 54, 2020. (245 citations)

Name: VICTORIA MICHELLE KASPI, CC, FRS, FRSC

Refereed Publications:

H-index 93; 32,080 citations (average 92.7 citations per paper, 86 papers with >100 citations) as of Jan. 27, 2022; 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. CHIME/FRB Collaboration, “Sub-second periodicity in a fast radio burst,” *Nature*, in press (61 authors)
2. Kirsten, F. et al. “A repeating fast radio burst source in a globular cluster,” *Nature*, in press (66 authors)
3. * Chawla, P., **Kaspi, V.**, et al. “Modeling Fast Radio Burst Dispersion and Scattering Properties in the First CHIME/FRB Catalog,” *Astrophys. J.*, in press (31 authors)
4. * Lanman, A., Andersen, B., Chawla, P. et al. “A sudden period of high activity from repeating Fast Radio Burst 20201124A,” *Astrophys. J.*, in press (33 authors)
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