Doctora *honoris causa*

Lisa Randall

Universitat Autònoma de Barcelona

Doctora *honoris causa*

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Discurs llegit
a la cerimònia d'investidura
celebrada a la sala d'actes de l'edifici Rectorat
el dia 25 de març de l'any 2019

UAB
Universitat Autònoma de Barcelona

Índex

PRESENTACIÓ DE LISA RANDALL PER ÀLEX POMAROL CLOTET

És un plaer ser el padrí de la professora Lisa Randall, una persona que ha destacat per les seves contribucions en el camp de la física de partícules. Les teories proposades per la professora Lisa Randall han mirat de resoldre alguns dels problemes més importants dins de la física de partícules i han inspirat una àmplia gamma de cerques experimentals, especialment en el gran col·lisionador de partícules LHC del CERN a Ginebra, però també dins de l'àmbit astrofísic, motivades per les seves propostes per l'origen de la matèria fosca de l'univers. Tot i això, l'interès de la professora Lisa Randall s'ha estès més enllà de la recerca d'avantguarda i també s'ha centrat a transmetre aquests coneixements al públic general. Això ho ha fet possible no sols gràcies als seus llibres de divulgació sinó també mantenint una estreta col·laboració amb artistes per obrir nous camins per portar al públic les idees científiques. En aquest aspecte, la professora Lisa Randall ha sabut relacionar els coneixements del seu camp amb els de la filosofia, les humanitats i la música, com veurem a continuació.

Professor Lisa Randall was born in Queens, New York, and in the early stages of her life she already showed a talent for science. She was admitted as an alumna of the Hampshire College Summer Studies in Mathematics, an American residential program for mathematically talented high school students, and at the age of 18 she was already a finalist, and tied for first place in the Westinghouse Science Talent Search.

Randall was admitted to Harvard University where she studied physics and earned a Bachelor of Arts in 1983. She says about those days: "Harvard freshmen are smart, interested, and excited, and it's fun hearing their different perspectives and stuff that they will share". After the BA, she decided to pursue a PhD in theoretical particles physics. Professor Howard Georgi, at that time one of the most active researchers in particle physics, and one of the first to propose the unification of forces under the beautiful mathematical framework of group theory, took her as a PhD student. From the first day, Prof. Lisa Randall worked on understanding the present models for elementary particle physics and their interactions, proposing new ideas to overcome their drawbacks. Although she was fascinated by the role of beauty as a guide to scientific truth, she was aware that this was not enough and that you had to be very close to the experimental data, following the advice of Feynman: "It doesn't matter how beautiful your theory is, it doesn't matter how smart you are. If it doesn't agree with experiment, it's wrong". She worked on the axion particle, a very speculative idea at that time, but today one of the main topics in particle physics.

After Harvard, she joined the University of California at Berkeley as a postdoctoral fellow, where stayed for three years. At that time (1989) the Higgs particle had not been discovered yet, and at CERN (Geneva), the predecessor of the LHC, the LEP collider had started to deliver data. This machine was producing collisions of electrons and anti-electrons with an energy of ~50 GeV each, and its main motivation was to better understand the interactions of the elementary particles, especially the Z-boson, the mediator of the weak force. This force is responsible for beta-decay in atoms, and for the ignition of the sun through its first reaction (p+p—>D+e+neutrino). Theoretical physicists already knew at that time that something new had to be discovered, as the model of particle physics was not a consistent theory, failing to give sensitive predictions. Either the Higgs particle or something else was needed, and the LEP collider would soon discover it. Prof. Lisa Randall was interested at that time in theories with no

Higgs, that was a possibility that required the presence of new forces at TeV energies (playing the role of the Higgs). She, together with Mitchell Golden, realized, however, that these new forces would have to significantly change the expected properties of the Z (and also W) boson particles ("Radiative Corrections to Electroweak Parameters in Technicolor Theories", published in Nucl.Phys. B361 (1991) 3-23), in such a way that one could rule out these options if no deviation were measured at LEP. Indeed, no deviations were found in the expected properties of the Z boson, giving then a first clear indication that the Higgs particle was the only option for a sensitive theory of elementary particles, long before the Higgs was discovered.

So, around 1990, we had already serious indirect hints that the Higgs particle could exist, and this led theoretical physicists to reconsider how solid models of elementary particles with a Higgs were. They realized that if the Higgs existed, it had to be light (100-200

GeV), but this required an amazing fine-tuning of the parameters of the model, similar to as if you had to adjust the temperature of your house with 15 digits of precision in order not to die of heat or cold. Of course this was possible, but it indicated how limited and unnatural theories of elementary particles with a Higgs were, a fact that motivated the search for better models.

This was probably a great challenge for Prof. Lisa Randall that decided her to move her research towards understanding theories that could explain the smallness of the Higgs mass in a natural way (without requiring a huge adjustments in the parameters of the model). She started studying theories with extra symmetries, what is called supersymmetry, and wrote several articles that had a very large impact in the community (with more than a thousand citations).

Prof. Lisa Randall joined the MIT faculty in 1991 as an assistant professor, receiving tenure in 1997. A year later, she got a joint ap-

pointment at Princeton and MIT as a full professor. She was the first woman to hold a professorship in the Physics Department at Princeton University and the first female theoretical physicist at MIT.

It was about that time when Prof. Lisa Randall, together with Prof. Raman Sundrum, wrote two seminal articles ("A Large mass hierarchy from a small extra dimension", Phys. Rev. Lett. 83 (1999) 3370, and "An Alternative to compactification", Phys. Rev. Lett. 83 (1999) 4690) where they proposed the subversive idea that the smallness of the Higgs mass had to do with the existence of an extra spacial dimension. They proposed that particles could be attached (or localized) at different points of this extra dimension, and showed that this would imply that their masses could be very different, some of them being large and some of them naturally small. This soon received the name of Randall-Sundrum models. The extra dimension, of course, could not be as large as our 3 spacial dimensions but tiny (rolled up like the pasta of a cannelloni), such that it could have escaped detection. In fact, to see the extra dimension, one would need high-energy collisions, as energetic as the ones at the present Large Hadron Collider (LHC) at CERN, Geneva. Profs. Randall and Sundrum gave specific predictions for what to find at the LHC, motivating dedicated experimental searches. So far, however, the LHC has not given any positive indication of the existence of new phenomena, but we must wait for more experimental data, expected to be collected in the next few years.

These two articles created a big impact in the community, and are today among the most cited articles in particle physics (they have amassed a total of ~15,000 citations). For this work, this year Profs. Randall and Sundrum received the prestigious Sakurai Prize for Theoretical Particle Physics.

Prof. Lisa Randall moved to Harvard as a full professor in 2001, where she is still today. She was the first female theoretical physicist

to obtain this position. She has received numerous awards and honors for her scientific contributions. For example, she is a member of the National Academy of Sciences, the American Philosophical Society, the American Academy of Arts and Sciences, was a fellow of the American Physical Society, and is a past winner of an Alfred P. Sloan Foundation Research Fellowship, a National Science Foundation Young Investigator Award, and a DOE Outstanding Junior Investigator Award. She is also an Honorary Member of the Royal Irish Academy and an Honorary Fellow of the British Institute of Physics.

Prof. Lisa Randall has also received the Premio Caterina Tomassoni e Felice Pietro Chisesi Award (2003) from the University of Rome (La Sapienza), the Klopsteg Award from the American Society of Physics Teachers (AAPT) for her lectures (2006), the Julius Lilienfeld Prize from the American Physical Society for her work on elementary particle physics and cosmology and for communicating this work to the public (2007), and the Julius Wess Prize (2015), among others.

Beyond Prof. Lisa Randall's research, her interest has also centered on transmitting and sharing her passion for science to the general public. To that end, she has written many articles in newspapers and magazines, and has appeared many times on the TV and radio. She has written four books for the general public: (1) Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions (2005), (2) Knocking on Heaven's Door: How physics and scientific thinking illuminate the universe and the modern world (2011), both being on the New York Times 100 notable books lists; (3) Higgs Discovery: The Power of Empty Space (2013), and (4) Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe (2015).

Meanwhile, Prof. Lisa Randall has also pursued the intertwining of arts and science as a means to transmit knowledge. She has participated in many art exhibits and performances all over the world. In particular, I would like to single out the libretto that she wrote for the

opera “Hypermusic Prologue, A Projective Opera in Seven Planes” composed by the Catalan Hèctor Parra (resident in Paris), that was performed at El Gran Teatre del Liceu in 2009. An opera where music tries to convey the sensations of a warped extra-dimension.

La professora Lisa Randall és una vella coneguda dels físics de partícules de Barcelona. Molts de nosaltres hem tingut la sort d'interaccionar amb ella en múltiples ocasions, sigui en congressos internacionals o en les seves visites a Barcelona. Actualment forma part del comitè científic extern de l'Institut de Física d'Altes Energies (IFAE). D'altra banda, el seu anhel per connectar art i ciència l'ha portada moltes vegades a Barcelona a participar en actes a l'Arts Santa Mònica, al CCCB, a «Converses a La Pedrera» o a la ja mencionada òpera al Liceu. També va ser seleccionada per ser un dels dotze participants a *El somni. Una òpera en dotze plats, un banquet en dotze actes*, realitzada per El Celler de Can Roca i Franc Aleu, juntament amb altres artistes coneguts, com ara Ferran Adrià, Miquel Barceló o el director d'òpera Josep Pons, entre d'altres.

Repassant l'extensió i l'impacte del treball de la professora Lisa Randall, un pot comprendre per què va estar a la llista de les «100 persones més influents» del 2007, segons la revista *Times*.

És per tot això que tinc el plaer, l'honor i el privilegi de demanar a la Rectora Magnífica de la Universitat Autònoma de Barcelona que s'atorgui el grau de doctora *honoris causa* a la professora Lisa Randall.

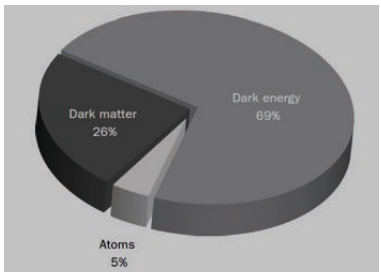
DISCURS
DE
LISA RANDALL

Dark Matter and the Dinosaurs.
The astounding interconnectedness of the Universe

It is a pleasure to be speaking here today and to be receiving this honorary degree, which is indeed quite a very pleasant honor. This university is a wonderful place; I know it primarily through my excellent particle and astrophysics colleagues here. More generally, I have been continually impressed by the attention and resources for these pursuits in your country, with outstanding research as a consequence.

Today I will be speaking about some research I have done fairly recently, but I will present some key ideas in the context of the broader picture that I presented in my book *Dark Matter and the Dinosaurs*. The concepts I present give a taste of how the seemingly abstract ideas that we study influence the reality that we experience. And this also gives me the opportunity to contextualize changes happening today and the concern expressed for the planet within the context of its history.

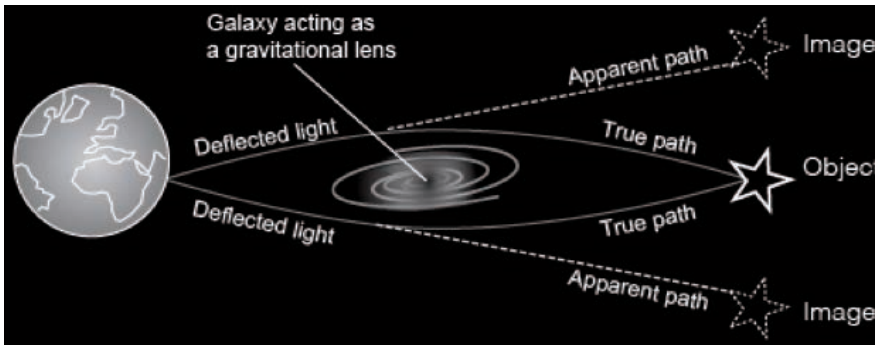
So let's begin. I'll start with the makeup of our Universe, with a picture known as the "cosmic pie."



This shows that the matter we are familiar with and made up of, namely atoms, constitutes a mere 5% of the

energy density in the Universe. The remaining fractions are dark matter, which I will discuss a lot, and dark energy, which is responsible for the acceleration of the Universe's expansion.

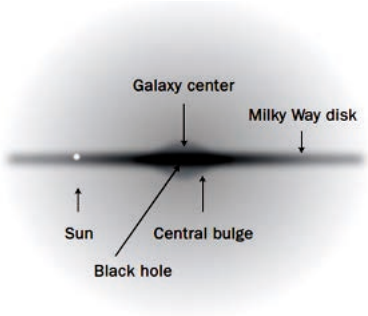
Dark matter is matter. It clumps together into galaxies and structures like the matter with which we are familiar. But it doesn't interact with light or experience any of the other Standard Model (SM) forces that ordinary matter is sensitive to. For this reason, dark matter is elusive. It interacts with us only via gravity. Billions of dark matter particles pass through us every second. Yet we don't know about them because they don't interact! The reason we know about dark matter is because there is so much of it, five times the amount of ordinary matter, which makes the gravitational influence significant.



Gravitational lensing studies of the Bullet Cluster (consisting of two colliding clusters of galaxies) provide perhaps the best evidence for the particle-like nature of dark matter.

Gravitational lensing produces multiple or spread-out images of an object, due to light from a visible object traveling around matter—either dark or visible. When galaxy clusters merge, gravitational lensing tells us that dark matter passes through exactly as non-interacting matter should. Therefore, dark matter is not mere speculation: we know that dark matter exists. We don't see it with our eyes, but we do observe its gravitational influences.

We also know where it is. It surrounds the Milky Way plane in an approximately spherical halo.



Ordinary matter collapsed because it was able to radiate photons and to cool down. Dark matter, however, retains the initial spherical structure. Dark matter is in some sense the "unsung hero" of matter, like unseen masses of society who help build bridges, houses or construct hardware. They go unnoticed as we focus mainly on leaders and celebrities. Dark matter is the scaffolding of the Universe. Thanks to dark matter, the Universe collapsed into structure earlier than it would have done with only usual matter. Yet we neglect it in favor of the "ruling" ordinary matter of our world.

But we are "in the dark." We know dark matter exists due to the many observations made of its gravitational influences; yet we don't know—at a fundamental level—what it is. Is it a particle? If so, what is it? What is its mass? Does it interact (non-gravitationally) with the SM particles? Does it interact with itself? Is it a single particle? Particle physics model building, which is the type of research I pursue, allows me to answer these questions, characterizing different possibilities and discovering new ways of thinking and novel possible tests for our ideas.

WIMPs (Weakly Interacting Massive Particles) is one idea you might have heard being discussed. It's many people's favorite dark-matter candidate. The idea is that dark matter is a particle connected

to standard matter, with a mass similar to the Higgs boson. The advantage from the experimental perspective is that there are many ways to search for it. There are three conventional methods to look for WIMPs that all require interactions, albeit small, with standard matter. One, known as direct detection, involves big vats of material capable of detecting dark matter that has a small impact on a nucleus. A second, known as indirect detection, looks for astrophysical visible matter that comes from dark matter annihilating itself with a different spectrum of number density than that predicted by ordinary astrophysical processes. Finally, there is the possibility to observe dark matter via the Large Hadron Collider. Because we have seen no evidence for physics beyond the SM and no evidence for direct detection, this possibility is becoming less likely, as are all of these ideas.

My research asks: what if dark matter is not a WIMP? Can we find it? Distinct type of dark matter can lead to distinctive shape of galaxies, affect the Solar System, or trigger comet strikes such as the one that might have killed the dinosaurs. Our basic insight is this: Why should normal matter be the only type that's special? Every time the Copernican Revolution is repeated in a different context, people are nonetheless surprised that we are not the center of the Universe. Maybe dark matter is indeed more interesting than people have assumed. The best option might turn out to be getting back to the way we always knew about dark matter: Gravitational effects.

Suppose dark matter interacts, but only with itself. This can have significant consequences. This can lead to a rethinking of the implications of almost all dark-matter, astronomical or cosmological measurements. Since we don't know what dark matter is, we should keep an open mind on this, especially in light of the abundance of astronomical data. Maybe dark matter radiates, too, but with it's own type of photon (light). If so, then it can also radiate and form a disk. So rather than just have the Milky Way disk, we might have dark matter

embedded in a disk too. And if dark matter is heavier than a proton, the disk is likely to be denser and narrower. This would have implications for the ESA GAIA satellite, currently measuring the position and motion of a billion stars in the Milky Way.

If dark matter forms a disk, there would be a bound from structure. In particular, you can measure the gravitational potential of the Milky Way plane by studying stars as they go in and out of the galactic plane in a vertical direction. We can see stars and gas independently, as well as deduce the dark matter in the spherical halo. The remaining mass that creates any extra gravitational potential through accelerating stars in a vertical direction would be the result of a dark disk.

But there could be other consequences too. So now let's switch gears from the seemingly esoteric domain of dark matter to the more immediate accessible world of the Solar System. The Solar System contains eight planets. But importantly it contains many other objects that move around, including asteroids and comets. Also important are long-period comets, with periods greater than 200 years, which come from the very distant Oort Cloud, thousands of times farther from the Sun than the Earth is. That means that the gravitational force on those objects from the Sun can be so small that even a small kick can send it hurtling out of the Solar System or possibly into the Solar System on a collision course with Earth.

In fact, many objects have hit the Earth. An interesting question concerns large craters. The definition of "large" is arbitrary but let's say bigger than a kilometer. It turns out there have been about twenty-five such craters formed by objects hitting the Earth within the last 250 million years that have been found. Presumably there were many more, but this is what we have to study with. What's interesting is that there is evidence (weak evidence but evidence nonetheless) that these objects have primarily hit the Earth on a periodic basis, say ever 32 million years or so. If true, this would merit an explanation.

The dark disk can provide exactly such an explanation. Since it is thin and dense, there is the possibility that it can explain both the frequency and length of time for these enhanced periods in which large objects hit the Earth. The explanation can be understood by thinking of the Solar System like a horse on a carousel that goes around but bobs up and down (In the case of the Solar System) through the plane of the galaxy. Every time it does so there is an enhanced probability of dislodging an object from the Oort cloud, due to the extra gravitational kick.

How does this connect to the extinction of the dinosaurs? We know from some fascinating scientific research that a big rock hitting the Earth was responsible for dinosaur extinction 66 million years ago, which is the most recent mass-extinction event on record. It turns out that the fit we did with the dark disk could account for precisely this event. We don't know if it's right, but we do know the parameters of the dark disk necessary to make this idea work and we can see whether GAIA data confirms it.

That's my science story. I'll conclude with some interesting asides. One is you can see yourself the layer of rock associated with the last extinction in Northern Spain. I was lucky enough to have the opportunity to see this directly. And even if you don't care so much about this, it's an opportunity to visit one of the most beautiful stretches of coastline that I've ever seen. And whether or not this idea turns out to be true, there are certainly many amazing connections between fundamental physics and our world that are readily observable in the Universe. For example, star burning and composition are determined by nuclear forces; our planet's geology (and hence carbon cycle and life) relies on nuclear processes too; cosmos and galaxies arise from dark matter collapse; large mammals emerged only after dinosaurs were eliminated. Is it possible that there's yet another dark-matter connection?

DISCURS
DE
MARGARITA ARBOIX
RECTORA DE LA UAB

President del Consell Social,
Rector Pascual,
Dra. Lisa Randall,
Padrí de la cerimònia, Dr. Àlex Pomarol,

Vicerectors/Vicerectores,
Degans/Deganes,
Caps de departaments i d'instituts de recerca,
Professors/Professores, Investigadors/Investigadores, Estudiants,
Personal d'Administració i Serveis,
Amics/Amigues,

Congratulations, Dra. Lisa Randall. Em sento molt honorada d'incorporar-vos al Claustre de professorat de la UAB.

Avui acabem d'investir doctora *honoris causa* una dona, física teòrica, experta en física de partícules i cosmologia, que, com molt bé ha lloat el seu padrí, el Dr. Pomarol, ens ha demostrat, amb la lliçó magistral que acaba de dictar, que podem felicitar-nos de l'encert del Consell de Govern de prendre la decisió d'atorgar-li el màxim reconeixement de la nostra universitat, el doctorat *honoris causa*.

Jo, que tinc pocs coneixements en la matèria en la qual ella és una autoritat internacional, i que no podria afegir res més, respecte a la

seva vàlua per obtenir aquest nomenament, al que el seu padrí ens ha descrit, sí que voldria destacar-ne alguns aspectes que la fan més, si es pot, mereixedora d'aquest honor.

Com també ens ha assenyalat el Dr. Pomarol, la Dra. Randall ha estat capaç de desenvolupar un gran treball de transferència del seu complex coneixement a aquells professionals que treballen en matèries de l'esfera de la física de partícules i la cosmologia. Això entra en el pla del que és habitual entre col·legues de les àrees de coneixement, però ella, al mateix temps, ha fet quelcom de particular que no és freqüent entre els científics: ha estat capaç d'acostar la física teòrica al ciutadà que, com jo, no té formació acadèmica en aquesta especialitat.

La seva feina en aquest àmbit de divulgar el coneixement científic ha estat i és una constant aportació. Participa de forma habitual en els mitjans de comunicació (ràdio, TV, diaris, revistes, etc.) i ha escrit diversos llibres que, en fer-ne la lectura, ens permeten caminar, amb facilitat, per un camí enrevessat que ens porta a través de les hipòtesis, les equacions, el llenguatge matemàtic, les tecnologies, la llum i la foscor o la matèria fosca, sense perdre'ns i gaudint de cada espectacle científic com si passegéssim per un bosc un dia de primavera o de tardor, on els colors i els sorolls ens aporten sensacions de repòs i benestar.

Llibres com: *Llamando a las puertas del cielo, Universos ocultos* o *La materia oscura y los dinosaurios* són treballs en què la Dr. Randall desvela pistes i descobriments de la física, des de les observacions fetes per científics del segle passat fins a la física de partícules del segle XXI, desenredant amb seducció els misteris dels mons que poden existir just al costat del nostre, aquest món en el qual vivim i que més o menys coneixem. I, com deia una ressenya del diari *El Mundo* parlant d'ella i del llibre *Universos ocultos*: «Lisa Randall construye un viaje fascinante por las dimensiones extras del universo apelando a una relación de filigrana poblada de ejemplos de la vida cotidiana».

O, com ella diu en la introducció del seu llibre *La materia oscura y los dinosaurios*: «El libro resume nuestro conocimiento actual sobre el universo, la Vía Láctea y el sistema solar, así como lo que condujo a que surgiera una zona habitable y la vida en la Tierra. Hablaré sobre la materia oscura y el cosmos, pero también sobre los cometas, los asteroides y la aparición y extinción de la vida, con especial atención al objeto que cayó en la Tierra y que mató a los dinosaurios y buena parte del resto de las formas de vida».

En aquest llibre parla del cataclisme que va fer desaparèixer els dinosaures fent referències a la vida política, al medi ambient, a la cultura del pop i el rock, a les relacions entre les coses visibles i les que es troben en l'obscuritat, i parla també del paper del llenguatge escrit i la impremta en l'adquisició del coneixement, en confrontació al pes que ha tingut internet.

Totes aquestes aportacions ens permeten acostar-nos més fàcilment a la llum i la foscor d'aquesta ciència complicada que és la física de les partícules i la cosmologia. Gràcies, Lisa, per ajudar-nos a comprendre millor fenòmens complicats.

La Dra. Randall també ha estat capaç de relacionar la recerca amb la música i les humanitats i, sense cap dubte, ens dona una idea del que és i com veu el món aquesta dona. Som davant d'una científica que porta una bona motxilla de «lletres» i, per tant, estic segura que és una dona flexible, oberta, creativa i que, des d'aquesta visió del món, és capaç de trencar barreres i obrir nous camins en la ciència i en les relacions socials com a motor de canvi en l'educació, el coneixement i l'evolució de les nostres societats.

Fa temps que estic convençuda que el programari cultural no pot funcionar sense el maquinari biològic. Per tant, els humanistes no poden aprofundir en temes com l'ètica, les estructures de poder, les religions o les desigualtats de gènere sense tenir en compte la perspectiva

evolutiva del món, de l'univers o del cervell. I els científics tampoc no poden prescindir dels aspectes culturals/educatius de les societats humanes on es desenvolupen els fenòmens biològics, físics o químics. Per tant, crec que és un gran valor i un honor el fet de tenir en el nostre equip una científica humanísticament ben informada i formada.

Gràcies, Lisa, per haver acceptat de formar part d'aquesta comunitat. Espero que el teu exemple ens inspiri a fer avenços perquè la nostra docència, la nostra recerca i la nostra transferència compaginin les humanitats, les ciències sociològiques, les ciències experimentals i de la salut i les tecnologies, i que això ens permeti facilitar la formació de ciutadans oberts, crítics, ètics, creadors i professionalment competents.

De nou, moltes felicitats, *congratulations*, Dra. Randall.

CURRICULUM VITAE
DE
LISA RANDALL

LISA RANDALL
Harvard University—Department of Physics
17 Oxford Street, Cambridge, MA 02138, USA

PROFESSIONAL EXPERIENCE

- **Frank B. Baird, Jr., Professor of Science:** Harvard University, Jul. 2009–present
- **Professor of Physics:** Harvard University, Jul. 2001–Jul. 2009
- **Professor of Physics:** MIT, Sept. 1998–Jul. 2001
- **Professor of Physics:** Princeton University, Jul. 1998–Sept. 2000
- **Associate Professor of Physics:** MIT, Jul. 1995–Jul. 1998
- **Assistant Professor of Physics:** MIT, Jul. 1991–Jul. 1995
- **Junior Fellow:** Harvard Society of Fellows, Jul. 1990–Jul. 1991
- **Postdoctoral Fellow:** Lawrence Berkeley Laboratory, Jul. 1989–Jul. 1990
- **President's Fellow:** University of California, Berkeley, Jul. 1987–Jul. 1989
- **Physics Tutor:** Adams House, Sept. 1984–Jun. 1987
- **Teaching Assistant:** Harvard Physics Department, Feb. 1984–May 1984
- **Summer Research:** Bell Laboratories, Jun. 1983–Aug. 1983
- **Summer Research (E-516):** FNAL, Aug. 1982-Sept. 1982
- **Summer Research:** IBM, Poughkeepsie, Jun. 1982–Aug. 1982
- **Summer Research:** Smithsonian Astrophysical Observatory, Jun. 1981–Aug. 1981

EDUCATION

- **PhD, Harvard University:** Sept. 1983–Jun. 1987, Theoretical Particle Physics
- **BA, Harvard University:** Sept. 1980–Jun. 1983, Physics

HONORARY DEGREES

- **Doctor Honoris Causa:** Universitat Autonoma de Barcelona, Spain, 2018
- **Doctor of Science:** Brown University, May 2011
- **Doctor of Science:** Duke University, May 2011
- **Doctor of Science:** Bard College, May 2010
- **Doctor Honoris Causa:** University of Antwerp, Belgium, Apr. 2006

AWARDS and HONORS

- **J. J. Sakurai Prize:** American Physical Society, 2018
- **CARMIN Fellowship:** Institut des Hautes Études Scientifiques, 2018
- **Honorary Membership:** Royal Astronomical Society of Canada, 2018
- **Christensen Visiting Fellowship:** St. Catherine's College, Apr. 2018
- **Guggenheim Foundation Fellowship:** Guggenheim Foundation, Mar. 2018
- **Harvard-UAI (Universidad Adolfo Ibanez) Collaborative Research Grant:** David Rockefeller Center for Latin American Studies, Harvard University, 2017-2018
- **Simons Fellowship in Theoretical Physics:** Simons Foundation, 2017
- **Blouin Foundation Award:** The Louise Blouin Foundation, 2017
- **Harvard Humanist Lifetime Achievement Award:** The Harvard Community of Humanists, Atheists and Agnostics (HCHAA)-Harvard University, Apr. 2017
- **Julius Wess Prize:** Karlsruhe Institute of Technology, Jul. 2016
- **The Walker Prize:** Boston Museum of Science, Sept. 2015
- **Leading the Way - Six Outstanding Women of Queens:** Queens

Historical Society, Sept. 2015

- **Andrew Gemant Award:** American Institute of Physics, Apr. 2013
- **Scientist of the Year:** Harvard Foundation for Intercultural and Race Relations, Mar. 2013
- **Harvard's Great Teachers:** Harvard University, Mar. 2012
- **National Award of Nuclear Science and History:** National Museum of Nuclear Science and History, Mar. 2012
- **Honorary Fellow:** Institute of Physics (IOP), London, 2016
- **Erna Hamburger Prize 2010:** École Polytechnique Fédérale de Lausanne WISH Foundation, Mar. 2010
- **Radcliffe Fellowship Award:** Radcliffe Institute for Advanced Study, Jun. 2009
- **Honorary Citizenship:** Padova, Italy, May 2009
- **Benjamin Franklin Creativity Laureate Award:** Creativity Foundation and Smithsonian Associates, Apr. 2009
- **The 75 Most Influential People of the 20th Century:** *Esquire* Magazine, Sept. 2008
- **Golden Plate Award:** American Academy of Achievement, Jul. 2008
- **Elizabeth A. Wood Award:** American Crystallographic Association, Jul. 2007
- **100 Most Influential People:** *Time* Magazine, May 2007
- **Julius Edgar Lilienfeld Prize:** American Physical Society, Apr. 2007
- **The Harvard 100:** The Most Influential Alumni: *02138* Magazine, Sept. 2006
- **Klopsteg Award:** American Association of Physics Teachers (AAPT), 2006
- **Whitewater Award for Distinguished Scholarship:** University of Wisconsin, 2006
- **Who's Next in 2006:** *Newsweek,* Dec. 2005
- **100 Notable Books of the Year:** *The New York Times- Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World,* Nov. 2011
- **100 Notable Books of the Year:** *The New York Times-Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions,* Dec. 2005
- **Premio Caterina Tomassoni e Felice Pietro Chisesi:** University of Rome, La Sapienza, First Recipient, Apr. 2003
- **Research Fellowship:** Alfred P. Sloan Foundation, 1992–1995

- **Outstanding Junior Investigator Award:** Department of Energy, 1992–1995
- **Young Investigator Award:** National Science Foundation, 1992–1995
- **Graduate Research Fellowship for Women:** Bell Labs, 1984
- **David J. Robbins Prize:** Harvard, 1983
- **Phi Beta Kappa:** Harvard, 1983
- **John Harvard Scholarship:** Harvard, 1982
- **Radcliffe Scholar:** Radcliffe, 1981
- **Elizabeth Cary Agassiz Scholar:** Harvard, 1980
- **First Place:** Westinghouse Science Talent Search, 1980

MEMBERSHIPS

- **Member:** American Philosophical Society, Apr. 2010–present
- **Honorary Member:** Royal Irish Academy, (MRIA), Mar. 2009–present
- **Member:** European Academy of Sciences and Arts, Jul. 2012
- **Member:** National Academy of Sciences, May 2008
- **Fellow:** American Academy of Arts and Sciences (AAAS), 2004-present
- **Fellow:** American Physical Society (APS), 2003

AFFILIATE POSITIONS

- **Faculty Affiliate:** Black Hole Initiative, Harvard University, Apr. 2017 – present
- **Faculty Affiliate:** Program on Science, Technology & Society, Harvard University, 2016 – present
- **Faculty Affiliate, Program of Science, Technology and Society:** Kennedy School of Government, Harvard University, Oct. 2011 – present

VISITING POSITIONS

- **Visiting Professor:** Institute Henri Poincare, Paris, France, Summer 2018

- **Visiting Professor:** Institute for Advanced Studies, Princeton, NJ, Apr. 2018
- **Visiting Professor:** Institute for Theoretical Physics, Madrid, Spain, Oct. 2014
- **Severo Ochoa Visiting Professorship:** Instituto de Fisica Teorica, Madrid, Spain. Jul. 2013
- **Miller Institute Visiting Professorship:** University of California, Berkeley, Mar. - May 2012
- **Director General's Visiting Professorship:** CERN Dec. 2011-Dec. 2012
- **California Institute of Technology Moore Distinguished Scholar:** Caltech, Pasadena, CA, Summer 2008 - Spring 2009
- **Visiting Professor:** New York University, New York City, Sept.–Dec. 2007, Nov. 2008
- **CERN Summer Visitor:** Aug. 1996 – Aug. 1997

ADVISORY POSITIONS

- **Faculty Advisor to Student Group:** Muse: Women's Event Series, Harvard University, Sep. 2018 - Present
- **Board Member:** Society for Science and The Public, Dec. 2018 - Present
- **LISA Consortium Member:** Max-Planck Institute, Sep. 2018 - Present
- **Advisory Board:** *The Humanist Hub Advisory Board* | The Harvard Community of Humanists, Atheists and Agnostics (HCHAA)-Harvard University, Jun. 2017 - Present
- **Co-Chair Committee:** *Boston-Cambridge Public Face of Science, Engagement Working Group* |American Academy of Arts and Sciences, Feb. 2017 -Jun. 2017
- **Medici Advisory Board:** *Medici Project* |EMD Serono, Dec. 2016 -Jan. 2017
- **Advisory Committee:** *Scale: A Matter of Perspective* Exhibit |Harvard Museum of Science & Culture, Sept. 2016- present
- **Advisor:** *Parallel* Universes |PhD Productions, Jan. 2016
- **Advisory Board:** *Scientific American,* May 2007–present
- **Advisory Board:** World Science Festival, Sept. 2007–present

- **Judge:** *Scientific American* |Centre for Quantum Technologies, Jan. 2013-2014
- **International Advisory Committee:** Rencontres du Vietnam, International Center for Interdisciplinary Science Education (ICISE), Quy Nhon (Central Vietnam), Aug. 2013
- **Board Member:** Einstein Forum (Potsdam, Germany), May 2012–present
- **International Advisory Committee:** Les Houches Workshop Series: "Physics at TeV Colliders," May 2011
- **President's Committee on the National Medal of Science:** Jan. 2011–Jan. 2014
- **Advisory Board:** Michigan Center for Theoretical Physics Winter Conference on LHC, Dec. 2010
- **Board of Visitors:** Longy School of Music, 2009–2011
- **International Advisory Committee:** International Conference on High Energy Physics (ICHEP), 2009, 2010
- **Advisory Board:** *Seed Magazine,* Aug. 2008–present
- **Board of Physics and Astronomy (BPA):** National Academy of Science (NAS, NRC), Jul. 2008–Jul. 2011
- **ASTRO2010 Science Subpanel:** The Astronomy and Astrophysics Decadal Survey Committee (ASC), 2008–2009
- **Summer Public Lecture Committee:** Aspen Center for Physics, 2008–2010
- **Julius Edgar Lilienfeld Prize Selection Committee:** American Physical Society, 2008
- **Science Sponsor:** New York Hall of Science, Jun. 2007–present
- **High Energy Physics Advisory Panel (HEPAP):** HEPAP, Feb. 2007–present
- **Board of Sponsors:** *Bulletin of the Atomic Scientists,* Nov. 2006–present
- **Beyond Einstein Program Advisory Committee (BEPAC):** Space Studies Board of National Research Council, Sept. 2006–Aug. 2007
- **Consultant:** Paramount Pictures, May 2006
- **Advisory Board:** Bethe Center for Arms Control and Non-Proliferation, Mar. 2006– present
- **Consultant:** *The Zula Patrol* (Children's Science Television), Feb. 2006
- **Advisory Board:** Institute for Contemporary Art (ICA) SuperVision, Jan. 2006

- **Advisory Board:** *Journal of High Energy Physics,* Nov. 2006–present
- **Advisory Council:** NASA Exploration Safety Study (NESS), Dec. 2005–Jun. 2006
- **Advisory Board:** Prize for Promise, Sept. 2003–present
- **Board General Member:** Aspen Center for Physics, 1997–present

EDITORIAL POSITIONS

- **Editorial Board:** *Universe,* Aug. 2017– current
- **Editor:** *Journal of High Energy Physics,* Jan. 1997–Jan. 1998, Feb. 2000–Nov. 2006
- **Associate Editor:** *Nuclear Physics B,* Sept. 1999–Dec. 2013
- **Editor:** *Annual Review of Nuclear and Particle Science,* Sept. 1997–2000

NAMED PHYSICS LECTURES

- **IAS Distinguished Lecture:** *New Ideas on Dark Matter*, Hong Kong University of Science and Technology, Hong Kong, China. Nov. 2018
- **Sackler Lecture:** *Triple Systems, Eccentricity, and Gravitational Waves,* CITA, Toronto, Canada. Sep. 2018
- **Bhaumik Lecture:** *Darkly Charged Dark Matter*, UCLA, Los Angeles, CA. May. 2018
- **Boltzmann Lecture:** *The Nature of Dark Matter,* University of Vienna, Austria. Oct. 2017
- **Science Museum Director's Annual Dinner 2017:** *Keynote Address,* Museum of Science, London, UK. May. 2017
- **7th Annual Bruce MacLaren Distinguished Lecture:** *Dark Matter and the Dinosaurs, an Evening with Dr. Lisa Randall,* Eastern Kentucky University, Lexington, KY. Apr. 2017
- **2015 Julius Wess Award:** *Dark Matter and the Dinosaurs*, Karlsruhe Institute of Technology, Karlsruhe, Germany. Jul. 2016
- **Niels Bohr Lecture:** *Dark Matter and the Dinosaurs,* Niels Bohr Institutet, Københavns Universitet, Copenhagen, Denmark. Jun. 2016
- **56th Cherwell Simon Lecture:** *Dark Matter and the Dinosaurs*, Oxford University, Oxford, UK. May 2016

- **National Science Foundation Distinguished Lecture Series in Mathematical and Physical Science:** *New Ideas About Dark Matter,* National Science Foundation, Arlington VA. Apr. 2016
- **The Francis Crick Lecture:** *Dark Matter and the Dinosaurs*, Salk Institute for Biological Studies, La Jolla, CA, Mar. 2016
- **York-Fields Lecture:** *New Dark Matter Theory,* York University, Toronto, CA, Dec. 2015
- **Louis Clark Vanuxem Lecture:** *Knocking on Heaven's Door*, Princeton University, NJ, Nov. 2013
- **Guy Stanton Ford Lectureship Program:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World,* University of Minnesota, Minneapolis, Apr. 2013
- **Peyton Rhodes Lecture:** *Knocking on Heaven's Door: An Evening with Dr. Lisa Randall,* Rhodes College, Memphis, TN, Apr. 2013
- **Convocation Series:** *An Evening with Dr. Lisa Randall*, Oberlin College, OH, Apr. 2013
- **2012 American Institute of Physics Andrew Gemant Award Lecture:** *Truth and Beauty and Other Scientific Misconceptions,* University of Denver, CO, Apr. 2013
- **2013 Beyond Annual Lecture:** *Knocking on Heaven's Door: How Science Illuminates the Universe,* Arizona State University, Tempe, AZ, Feb. 2013
- **The 2012 Heinz R. Pagles Public Lecture Series:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminates the Universe and the Modern World*, Aspen Center for Physics, Aspen, CO, Aug. 2012
- **Keynote Address:** *It's a Small World After All*, Batavia, IL, Tevatron Impact Symposium, Fermilab, Jun. 2012
- **Hans A. Bethe Lecture:** *Knocking on Heaven's Door*, Cornell University, Ithaca, NY, May 2012
- **Miller Visiting Professorship Lecture:** University of California, Berkeley, Apr. 2012
- **Presidential Speaker Series:** Rhode Island School of Design, Feb. 2012
- **Colóquios Paco Ynduráin:** *Particle Physics in the LHC,* Universidad Autónoma de Madrid, Apr. 2011
- **Oppenheimer Lecture:** *What's so Small to You is so Large to Me,* University of California, Berkeley, Mar. 2011

- **Erna Hamburger Prize Lecture 2010:** *Warped Passages: My Experience in Physics,* École Polytechnique Fédérale de Lausanne WISH Foundation, Lausanne, Switzerland, Mar. 2010
- **Joseph Lannutti Memorial Lecture (Origins '09):** Florida State University, Tallahassee, Mar. 2009
- **Presidential Lecture:** University of Tulsa, OK, Feb. 2009
- **Hamilton Lecture:** *Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions,* Royal Irish Academy, Dublin, Ireland, Oct. 2008
- **Dashen Memorial Lecture:** University of San Diego, CA, May 2008
- **Richmond Lecture:** *Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions*, Williams College, Williamstown, MA, Jan. 2008
- **E.W. Guptill Memorial Lecture:** *Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions,* Dalhousie University, Halifax, Nova Scotia, Canada, Oct. 2007
- **J. James Woods Lecture Series:** *Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions*, Butler University, Indianapolis, IN, Mar. 2007
- **Joseph and Sophia Konopinski Memorial Lecture:** Indiana University, Bloomington, Mar. 2007
- **Gamov Memorial Lecture Series:** *Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions,* University of Colorado, Boulder, Mar. 2007
- **William C. Ferguson Science Lecture:** *Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions*, Washington University, St. Louis, MO, Feb. 2007
- **Kieval Lecture:** Cornell University, Ithaca, NY, Jan. 2007
- **Ann Radcliffe Lecture:** Harvard University, Cambridge, MA, Sept. 2006
- **The Heinz R. Pagels Memorial Public Lectures:** *Warped Passages: Energy and Extra Dimensions in Einstein's Universe,* Aspen Center for Physics, Aspen, CO, Aug. 2005
- **Welsh Lecture:** University of Toronto, Canada, Apr. 2005
- **The Kirkland/Spizuoco Memorial Science Lecture Series**: Shippensburg University, PA, Apr. 2005
- **Plenary Address in the Gravity Research Foundation Session of the 16th Conference of the International Society of General Relativity and Gravitation:** Durban, South Africa, Jul. 2001

- **Morris Loeb Lectures in Physics:** Harvard University, Cambridge, MA, Apr. 2001
  - Lecture I: *Localizing Gravity*
  - Lecture II: *Localized Gravity and the Weak Scale*
  - Lecture III: *Locally Localized Gravity, Holography, and String Theory*
  - Lecture IV: *Holography, Phenomenology, and Model Building*
- **Goeppert-Mayer Lecture:** Case Western Reserve University, Cleveland, OH, 1998, 1996

RECENT AND HIGHLY CITED PAPERS

- Lisa Randall and Zhong-Zhi Xianyu **A Direct Probe of Mass Density Near Inspiraling Binary Black Holes** (2018). arXiv:1805.05335
- Lisa Randall and Zhong-Zhi Xianyu **An Analytical Portrait of Binary Mergers in Hierarchicial Triple Systems** (2018). arXiv:1802.05718
- Lisa Randall and Zhong-Zhi Xianyu **Induced Ellipticity for Inspiraling Binary Systems** (2018). *Astrophys. J. 853 no.1, 93,* doi: 10.3847/1538-4357/aaa1a2
- The Theia Collaboration: Celine Boehm, Alberto Krone-Martins, Antonio Amorim, Guild Anglada-Escude, Alexis Brander, Frederic Courbin, Torsten Ensslin, Antonio Falcao, Lisa Randall, et. al. **Theia: Faint Objects in Motion or the New Astronomy Frontier** (2017). arXiv:1707.01348
- Prateek Agrawal, Lisa Randall, **Point Sources from Dissipative Dark Matter** (2017). arXiv:1706.04195
- Prateek Agrawal, Francis-Yan Cyr-Racine, Lisa Randall, and Jakub Scholtz, **Dark Catalysis** (2017). arXiv:1702.05482
- Lisa Randall, Jakub Scholtz, and James Unwin, **Cores in Dwarf Galaxies from Fermi Repulsion,** (2016). arXiv:1611.04590; astro –ph. GA
- Prateek Agrawal, Francis-Yan Cyr-Racine, Lisa Randall, and Jakub Scholtz, **Make Dark Matter Charged Again,** (2016). arXiv:1610.04611
- Eric David Kramer and Lisa Randall, **Updated Kinematic Constraints on a Dark Disk,** (2016). arXiv:1604.01407, *Astrophys. J. 824 no.2, 116, doi: 10.3847/0004-637x/824/2/116*

- Lisa Randall, Jakub Scholtz, and James Unwin, **Flooded Dark Matter and S Level Rise,** (2015). arXiv:1509.08477
- Chung Hyeyoun, Lisa Randall, Maria J. Rodriguez and Oscar Varela, **Quasinormal Ringing on the Brane,** (2015). arXiv:1508.02611
- Kaustubh Agashe, Aleksandr Azatov, Yanou Cui, Lisa Randall and Minho Son, **Warped Dipole Completed, with a Tower of Higgs Bosons,** (2014). arXiv:1412.6468
- Lisa Randall and Jakub Scholtz, **Dissipative Dark Matter and the Andromeda Plane of Satellites**, (2014). arXiv:1412.1839
- Lisa Randall and Matthew Reece, **Dark Matter as a Trigger for Periodic Comet Impacts,** (2014). arXiv:1403.0576; *Physical Review Letters*
- Lisa Randall and Matthew Reece, **Single-Scale Natural SUSY,** (2013). arXiv:1206.6540; *Journal of High Energy Physics,* doi: 10.1007/JHEP08(2013)088.
- JiJi Fan, Andrey Katz, Lisa Randall, Matthew Reece, **A Dark-Disk Universe,** (2013). http://arXiv.org/abs/arXiv:1303.3271; *Physical Review Letters,* doi: 10.1103/PhysRevLett.110.211302.
- JiJi Fan, Andrey Katz, Lisa Randall, Matthew Reece, **Double-Disk Dark Matter,** (2013). http://arxiv.org/abs/arXiv:1303.1521; *Physics of the Dark Universe,* doi: 10.1016/j.dark.2013.07.001.
- Matthew McCullough and Lisa Randall, **Exothermic Double-Disk Dark Matter,** (2013). http://arXiv:1307.4095; *Journal of Cosmology and Astroparticle Physics,* doi: 10.1088/1475-7516/2013/10/058.
- A. Liam Fitzpatrick, Jared Kaplan, Emanuel Katz, Lisa Randall, **Decoupling of High Dimension Operators from the Low Energy Sector in Holographic Models,** (2013). http://arXiv:1304.3458.
- Cedric Delaunay, Jernej F. Kamenik, Gilad Perez, Lisa Randall, **Charming CP Violation and Dipole Operators from RS Flavor Anarchy,** (2013). http://arXiv.org/abs/arXiv:1207.0474; *Journal of High Energy Physics,* doi: 10.1007/JHEP01(2013)027
- Csaba Csaki, Lisa Randall, John Terning. **Light Stops from Seiberg Duality,** (2012). http://arxiv.org/pdf/arXiv:1201.1293.
- Yanou Cui, Lisa Randall, Brian Shuve, **WIMPy Baryogenesis Miracle,** (2011). http://arxiv.org/pdf/arXiv:1112.2704; *Journal of High Energy Physics*
- Yanou Cui, Lisa Randall, Brian Shuve, **Emergent Dark Matter Baryon, and Lepton Numbers,** (2011). http://arXiv.org/abs/1106.4834; *Journal of High Energy Physics,* doi: 10.1007/JHEP08(2011)073

- David Krohn, Lisa Randall, Lian-Tao Wang, **On the Feasibility and Utility of ISR Tagging,** (2011). http://arXiv.org/abs/1101.0810v1
- Randall Kelley, Lisa Randall, Brian Shuve, **Early (and Later) LHC Search Strategies for Broad Dimuon Resonances,** (2010). http://arXiv/abs/1011.0728; *Journal of High Energy Physics*, doi: 10.1007/JHEP02(2011)014.
- Matthew R. Buckley and Lisa Randall, **Xogenesis,** (2010).http://arXiv.org/abs/ 1009.0270; *Journal of High Energy Physics,* doi: 10.1007/JHEP09(2011)009.
- L. Randall and M. D. Schwartz, **Unification and the Hierarchy from AdS_5,** (2002). http://arxiv.org/abs/hep-th/0108115 *Physical Review Letters* 88 081801, doi: 10.1103/PhysRevLett.88.081801
- A. Karch and L. Randall, **Open and Closed String Interpretation of SUSY CFT's on Branes with Boundaries,** (2001). http://arxiv.org/abs/hep-th/0105132; *Journal of High Energy Physics* 0106 063, doi: 10.1088/1126-6708/2001/11/003.
- N. Arkani-Hamed, M. Porrati, and L. Randall, **Holography and Phenomenology,** (2001). http://arxiv.org/abs/hep-th/0012148; *Journal of High Energy Physics* 0108 017, doi: 10.1088/1126-6708/2001/08/017.
- A. Karch and L. Randall, **Locally Localized Gravity,** (2001). http://arxiv.org/abs/hep-th/0011156; *Journal of High Energy Physics* 0105 008, doi: 10.1088/1126-6708/2001/05/008.
- C. Csaki, M. Graesser, L. Randall, and J. Terning, **Cosmology of Brane Models with Radion Stabilization,** (2000). http://arxiv.org/abs/hep-ph/9911406; *Physical Review D* 62 045015, doi: 10.1103/PhysRevD.62.045015
- J. Lykken and L. Randall, **The Shape of Gravity,** (2000). http://arxiv.org/abs/hep-th/9908076; *Journal of High Energy Physics* 0006 014, doi: 10.1088/1126-6708/2000/06/014.
- L. Randall and R. Sundrum, **An Alternative to Compactification,** (1999). http://arxiv.org/abs/hep-th/9906064; *Physical Review Letters* 83 4690–4693, doi: 10.1103/PhysRevLett.83.4690.
- T. Moroi and L. Randall, **Wino Cold Dark Matter from Anomaly-Mediated SUSY Breaking,** (2000). http://arxiv.org/abs/hep-ph/9906527; *Nuclear Physics B* 570 455–472, doi: 10.1016/S0550-3213(99)00748-8
- L. Randall and R. Sundrum, **A Large Mass Hierarchy from a Small Extra Dimension,** (1999). http://arxiv.org/abs/hep-ph/9905221; *Physical Review Letters* 83 3370–3373, doi: 10.1103/PhysRevLett.83.3370

- J. L. Feng, T. Moroi, L. Randall, M. Strassler, and S. Su, **Discovering Supersymmetry at the Tevatron in Wino LSP Scenarios,** (1999). http://arxiv.org/abs/hep-ph/9904250; *Physical Review Letters*. 83 1731–1734, doi: 10.1103/PhysRevLett.83.1731
- L. Randall and R. Sundrum, **Out of This World Supersymmetry Breaking,** (1999). http://arxiv.org/abs/hep-th/9810155; *Nuclear Physics B* 557, 79–118, doi: 10.1016/S0550-3213(99)00359-4
- Z. Ligeti, L. Randall, and M. B. Wise, **Comment on Nonperturbative Effects in anti-B $\Box X_s \gamma$,** (1997). http://arxiv.org/abs/hep-ph/9702322; *Physical Letters B* 402, 178–182, doi: 10.1016/S0370-2693(97)00304-3
- L. Randall, M. Soljacic, and A. Guth, **Supernatural Inflation: Inflation from Supersymmetry with No (Very) Small Parameters,** (1996). http://arxiv.org/abs/hep-ph/9512439; *Nuclear Physics B* 472, 377–408, doi: 10.1016/0550-3213(96)00174-5
- M. Dine, L. Randall, and S. Thomas, **Baryogenesis from Flat Directions of the Supersymmetric Standard Model,** (1996). http://arxiv.org/abs/hep-ph/9507453; *Nuclear Physics B* 458, 291–326, doi: 10.1016/0550-3213(95)00538-2
- J. Bagger, E. Poppitz, Lisa Randall, **The R Axion from Dynamical Supersymmetry Breaking,** (1994). http://arxiv.org/abs/hep-ph/9405345; *Nuclear Physics B* 426, 3–18, doi: 10.1016/0550-3213(94)90123-6.

BOOKS

Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe, Ecco Press at HarperCollins, Oct. 2015
Translations:

- UK: Bodley Head Adults (2016)
- Brazil: Companhia das Letras
- China: Cheers (2016)
- Estonia: Argo
- Germany: Fischer (2018)
- Greece: ROPI
- Italy: Il Saggiatore
- Japan: NHK (2016)
- Korea: Science Books (2016)
- Netherlands: Nieuwezijds (2017)

- Poland: Prószynski
- Russia: Alpina
- Spain: Acantilado
- Turkey: Alfa
- Audio UK: Audible (2015)
- Audio US: HarperCollins/Blackstone (2015)

Higgs Discovery: The Power of Empty Space, Ecco Press at HarperCollins, Jul. 2012 (Kindle Edition); Random House, Jul. 2012 (Paperback).
Translations:

- Greece: Ekkremes (2014)
- Iceland: Tifstjarnan (2013)
- Korea: Science Books (2013)
- Spain: Acantilado (2013)
- Turkey: Pan (2016)
- UK: Bodley Head (2012)

Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World, Ecco Press at HarperCollins, Sept. 2011 (Hardcover, Kindle Edition, MP3 CD; Paperback [2012]); Random House, Sept. 2011 (Paperback).
Translations:

- Arabic: Arab Foundation for Education
- Brazil: Companhia das Letras, (2013)
- China: Cheers Media LLC (2011); Chongqing Publishing House (2016)
- Germany: Fischer, (2012)
- Italy: Il Saggiatore (2012)
- Japan: NHK Publishing, (2014)
- Korea: Science Books (2015)
- Poland: Proszynski (2013)
- Russia: Alpina, (2014)
- Spain: Acantilado (2013)
- Turkey: ALFA (2016)
- UK: The Bodley Head (2011); Vintage Paperback (2012)
- Vietnam: Tre
- Audio: Tantor (2011)

There is Another Dimension, Lisa Randall and Koichi Wakata. Japan Broadcast Publishing, 2007.

Warped Passages: Unraveling the Mysteries of the Universe's Hidden Dimensions, Lane at Penguin, Jun. 2005 (eBook, Paperback); Ecco Press at HarperCollins, Sept. 2005 (Hardcover, Kindle Edition, Paperback).
Translations:

- China: China Renmin University Press (2008); Chongqing Publishing House (2016)
- Czech Republic: Paseka
- Germany: Fischer (2006)
- Italy: Il Saggiatore (2006)
- Japan: NHK Publishing (2007)
- Korean: ScienceBooks (2006)
- Netherlands: Uitgeverij Het Spectrum (2006)
- Poland: Proszynski (2011)
- Russia: KomKniga Publishers (2011); URSS Publishing Group (2014)
- Spain: Acantilado (2011)
- Turkey: ALFA
- UK: Penguin Allen Lane, (2005); Penguin Paperback (2006)

CONTRIBUTED CHAPTERS

- **Letter to a Young Reader:** in *A Velocity of Being: Letters to a Young Reader,* by Maria Popova and Claudia Bedrick. (Enchanted Lion Books, 2018)
- **Effective Theory:** in *This Idea is Brilliant: Lost, Overlooked, and Underappreciated Scientific Concepts Everyone Should Know,* ed. John Brockman. (Harper Collins, 2018), 217–218.
- **Breakthroughs Become Part of the Culture:** in *Know This: Today's Most Interesting and Important Scientific Ideas, Discoveries, and Developments,* ed. John Brockman. (Harper Collins, 2017),137–139.
- **Energy in Einstein's Universe:** in *Einstein for the 21st Century: His Legacy in Science, Art, and Modern Culture,* ed. Peter Galison, Gerald Holton, & Silvan Schweber. (Princeton University Press, Paperback, 2017), 299–310.

- **Scaling Reality – The Inner Atom and Outer Space:** in *The Earth and I,* ed. James Lovelock. (Taschen, 2016), 30–41.
- **Big Experiments Won't Happen:** in *What Should We Be Worried About?: Real Scenarios That Keep Scientists Up at Night,* ed. John Brockman. (New York: HarperCollins, 2014), 174–176.
- **The Cyclic Universe:** in *The Universe: Leading Scientists Explore the Origin, Mysteries, and Future of the Cosmos*, ed. John Brockman. (New York: Harper Perennial, 2014). *Most Wanted Particle: The Inside Story of the Hunt for the Higgs, the Heart of the Future of Physics*, auth. John Butterworth. (New York: The Experiment, 2015), Foreword, 2014, xii-xvi.
- **The Higgs Mechanism:** in *This Explains Everything: Deep, Beautiful, and Elegant Theories of How the World Works,* ed. John Brockman. (New York: HarperCollins, 2013), 212–214.
- **Science:** in *This Will Make You Smarter: New Scientific Concepts to Improve Your Thinking,* ed. John Brockman. (New York: HarperCollins, 2012), 192–193.
- **The Plural of Anecdote Is Not Data:** in *How Is the Internet Changing the Way You Think?,* ed. John Brockman. (New York: HarperCollins, 2011), 324–326.
- **Coordinated Computational Power Will Change Science:** in *This Will Change Everything: Ideas That Will Shape the Future,* ed. John Brockman. (New York: HarperCollins, 2010), 350–352.
- **Deu ser preciós', una introducció a Passatges deformats:** in *En ressonancia,* eds. Cinta Massip and Josep Perelló, trans. Xavier Pàmies. (Barcelona: Arts Santa Mònica, 2009), 43–50.
- **Energy in Einstein's Universe:** in *Einstein for the 21st Century.* (New Jersey: Princeton University Press, 2007), 299.
- **New Dimensions: Interview with Lisa Randall:** in *Mind, Life, and Universe,* interview by Eduardo Punset, eds. Lynn Magulis and Eduardo Punset. (White River Junction, VT: Chelsey Green, 2007), 297–303.
- **Questionnaire: Models as Generative Processes:** in *Models,* eds. Emily Abruzzo, Eric Ellingsen, and Jonathan D. Salomon. (New York: Princeton Architectural Press, 2007), 230–231.
- **People Will Increasingly Value Truth:** in *What Are You Optimistic About?,* ed. John Brockman. (New York: HarperCollins, 2007), 68–69.
- **Designing Words:** in *Intelligent Thought: Science versus the Intelligent Design Movement*, ed. John Brockman. (New York: Vintage Books, 2006), 192–204.

- **Implications of Additional Spatial Dimensions to Questions in Cosmology:** in *Science and Ultimate Reality: Quantum Theory, Cosmology, and Complexity*, eds. John D. Barrow, Paul C.W. Davies, and Charles L. Harper. (Cambridge, United Kingdom: Cambridge University Press, 2004), 564–573.
- **Theories of the Brane:** in *The New Humanists: Science at the Edge,* ed. John Brockman. (New York: Barnes & Noble, 2003), 313–328.
- **Supersymmetry and Inflation:** in *Perspectives on Higgs Physics II,* ed. Gordon L. Kane. (Singapore: World Scientific, 1998).

CONTRIBUTED ARTICLES

- **The New York Times:** *The Worth of Physics Research* by Lisa Randall, Feb. 01, 2019
- **Scientific American:** *What is Dark Matter*?, by Lisa Randall, May 2018
- **Nature: International Journal of Science:** *What is Dark Matter?*, by Lisa Randall, May 09, 2018
- **Time:** *Stephen Hawking's Legacy Spans the Universe—Both Within and Beyond Us,* by Lisa Randall, Mar. 14, 2018
- **SSRN:** *Political Control Over Public Communications by Government Scientists,* by Lisa Randall and Cass R. Sunstein, Jul. 07, 2017
- **Nautilus:** *Does Dark Matter Harbor Life? An Invisible Civilization Could Be Living Right Under Your Nose,* May 11, 2017
- **The Guardian:** What's Next for the Women's Movement? *End the Fear Women Feel*, Mar. 08, 2017
- **The New York Times:** A Physicist's Crash Course in Unpeeling the Universe, Book Review, Mar. 03, 2017
- **The Strait Times:** *The Gender Particle Blighting the Nobel List,* Jan. 11, 2017
- **The New York Times:** *Why Vera Rubin Deserved a Nobel,* Jan. 04, 2017
- **The Wall Street Journal:** *Lisa Randall on Effective Theory*, in *What Scientific Term or Concept Ought to be More Widely Known?,* Dec. 28, 2016
- **Financial Times:** *The Books of 2016: Critic's Choice,* Dec. 02, 2016
- **The New York Review of Books:** *In Defense of Dark Matter and the Dinosaurs,* Apr. 25, 2016

- **Prospect Magazine:** *If I Ruled the World: Lisa Randall,* Feb. 18, 2016
- **Financial Times:** *Dark Matter and the Dinosaurs,* Jan. 08, 2016
- **Boston Globe:** *Changing and Unchanging Cycles,* Jan. 01, 2016
- **Huffington Post:** *Dark Matter and the Dinosaurs*, Oct. 29, 2015
- **New Republic:** *How Dark Matter Gave Shape to the Universe*, Oct. 26, 2015
- **Boston Globe:** *Seeing Dark Matter as the Key to the Universe—and Human Empathy*, Oct. 26, 2015
- **New Scientist:** *Physics Crunch: Time to Boost the Energy?,* Feb. 27, 2013
- **Slate:** *We Don't Need a Theory of Everything: Why Physics Is Messy*, Jan. 26, 2013
- **The Huffington Post:** *Mozart, Newton and You?,* Jan. 05, 2012
- **Newsweek:** *How the Higgs Boson Could Change the Universe*, Dec. 19, 2011
- **CNN.com:** *America Can't Afford to Lose Its Grip on Science,* Dec. 08, 2011
- **Discover Magazine:** *How to See the Invisible: 3 Approaches to Finding Dark Matter*, Nov. 2011.
- **Time Magazine:** *How Science Can Lead the Way*, Oct. 03, 2011
- **The Huffington Post:** *CERN or Einstein? Interpreting the Findings*, Sept. 25, 2011
- **Cosmic Variance (Discover Magazine)**: *On Writing Knocking on Heaven's Door*, Sept. 20, 2011
- **New York Times Magazine:** *Just Ask. Then Keep Asking*, Sept. 14, 2011
- **The Huffington Post**: *'Book of Mormon': A Show about Religion, or a Show about Musicals Themselves?* Jul. 08, 2011
- **3QuarksDaily:** *The Winners of the 3 Quarks Daily 2011 Science Prize,* Jun. 20, 2011
- **Discover Magazine:** *A Tumultuous Year at the LHC*, Nov. 12, 2009
- **Discover Magazine***: Heart of the Matter*, Oct. 2009
- **Physics Today***: The Case for Extra Dimensions*, Jul. 2007
- **Discover Magazine:** *An American Physicist In Venice*, Jul. 2007
- **The Harvard Crimson:** *Faust at the Helm*, Jun. 2007
- **Discover Magazine:** *Galápagos Reconsidered,* Feb. 2007
- **Telepolis Special: Kosmologie:** *Verborgene Kosmen. Warum ich an höhere Dimensionen glaube*, Feb. 2007.
- **Seed Magazine:** *The Vanguard of Science: Where Is Your Field Heading in 2007?,* Dec. 2006/ Jan. 2007.

- **New Scientist Magazine:** *Brilliant Minds Forecast the Next 50 Years*, Nov. 2006.
- **The New Yorker:** *Letter to the Editor*, Oct. 2006.
- **Queen's Quarterly:** *Smashing Open the Universe*, Fall 2006.
- **Seed Magazine:** *Why a Large Hadron Collider?,* Jul. 2006.
- **Recherche:** *L'équation Ultime pour la Physique*, Oct. 2005.
- **New Scientist Magazine:** T. Ward, T. Emin, A. Snyder, M. Atwood, R. Stickgold, L. Smolin, L. Randall, F.D. Peat, A. Lightman, D. Simonton, *Creativity Special: Ten Top Tips,* Oct. 2005.
- **Seed Magazine:** *3D Is Our Cosmic Destiny*, Oct. 2005.
- **The New York Times Book Review:** *Letter to the Editor*, Sept. 2005.
- **New Scientist Magazine:** *Big Ideas: Theory of Everything*, Sept. 2005.
- **The New York Times:** Op-Ed, *Dangling Particles*, Sept. 2005.
- **Prospect Magazine:** *Smashing Open the Universe*, UK, No. 114, Sept. 2005.
- **The Daily Telegraph:** *Why I Believe in Higher Dimensions*, UK, Jul. 2005.
- **Nature Magazine:** L. Randall, G. 't Hooft, et al, *A Theory of Everything?,* 433: 257–259, Jan. 2005.
- **Science Magazine:** *Extra Dimensions and Warped Geometries*, 296, 1422, May 2002.

BOOKS FEATURED IN

- **Stem Gems: How 44 Women Shine in Science, Technology, Engineering and Mathematics, and How You Can Too:** by Stephanie Epsy, 2016
- **The Mighty Women of Science:** by Clare Forrest with Fiona Gordon, BHP Comics, 2016

MEDIA and BOOK REVIEWS

REVIEWS: *DARK MATTER AND THE DINOSAURS*

- **The Adelaide Review:** *DMATD*, by Roger Hainsworth, Oct. 30, 2016
- **The Times Literary Supplement:** *DMATD*, by Marc Manera, May 27, 2016

- **The Guardian Weekly:** *Known Unknowns*, by Graham Farmelo, Feb. 12, 2016
- **Country of Quinn:** *DMATD: Harvard Physicist Lisa Randall on Our Place in the Universe*, by Dan Petrov, Feb. 09, 2016
- **One Giant Read:** *DMATD*, Feb. 02, 2016
- **Times Higher Education:** *Book of the Week*, Jan. 21, 2016 [article]
- **The Guardian:** *When Will Another Asteroid Wreak Havoc on Earth?* by Graham Farmelo, Jan. 21, 2016
- **Science Book a Day:** *DMATD*, by Sophia Frentz, Jan. 21, 2016
- **The Yorkshire Post:** *DMATD*, by Amy Nicholson, Jan. 16, 2016
- **The Times:** *New Light on Dark Matter*, by Tom Whipple, Jan. 16, 2016
- **Eastern Daily Press:** *DMATD*, by Amy Nicholson, Jan. 16, 2016
- **Express and Star:** *DMATD*, by Amy Nicholson, Jan. 15, 2016
- **Shropshire Star:** *DMATD*, by Amy Nicholson, Jan. 15, 2016
- **The Lady:** *DMATD*, by Stephen Coulson, Jan. 15, 2016
- **Western Mail:** *DMATD*, by Amy Nicholson, Jan. 15, 2016
- **The Northern Echo:** *DMATD*, Jan. 12, 2016
- **The Sunday Times:** *Slaying Dinosaurs*, by Rob Kingston, Jan. 10, 2016.
- **The Mail on Sunday:** *The Dark Demise of T-Rex,* by Tara Shears, Jan. 10, 2016
- **New Scientist:** *Down a Very Dark Rabbit Hole,* by Michael Brooks, Jan. 09, 2016
- **Financial Times UK:** *DMATD*? by Clive Cookson, Jan. 08, 2016
- **The Daily Telegraph:** *Did Dark Matter Kill the Dinosaurs*? Jan. 07, 2016
- **The Telegraph UK:** *Did Dark Matter Kill the Dinosaurs?* by Lewis Dartnell, Jan. 07, 2016
- **New Scientist:** *Dark Matter and the Dinosaurs: A Quest for Grown-ups*, by Michael Brooks, Jan. 05, 2016
- **Science News:** *Dark Matter Helped Destroy the Dinosaurs, Physicist Posits*, by Andrew Grant, Jan. 03, 2016
- **The Guardian:** *DMATD* Jan. 02, 2016
- **BBC Focus:** *DMATD*, by Brian Clegg, Jan. 01, 2016
- **Forbes:** *Lisa Randall and the Dinosaurs*, by John Farrell, Dec. 16, 2015
- **Wall Street Journal:** *The Science of Shooting Stars,* by Jim Al-Khalili, Dec. 09, 2015

- **Dallas Morning News:** *DMATD*, by Fred Bortz, Dec. 04, 2015
- **Rainbow Light:** *DMATD*, by Rick Kleffel, Dec. 03, 2015
- **Brain Pickings:** *Dark Matter and the Dinosaurs: Harvard Physicist Lisa Randall on the Astounding Interconnectedness of the Universe*, by Maria Popova, Nov. 28, 2015
- **New York Times:** *Sunday Book Review,* by Maria Popova, Nov. 24, 2015
- **Bust Magazine:** *Science Nonfiction, Triple Feature: Intriguing New Titles Celebrating Women in Physics and Forensics,* by Princess Weekes, Nov. 19, 2015
- **San Francisco Book Review:** *DMATD*, by D. Wayne Dworsky, Nov. 01, 2015
- **Paste:** *DMATD*, by David Zarley, Oct. 30, 2015
- **House of Speakeasy:** *Did Dark Matter Kill the Dinosaurs,* by Charles Arrowsmith, Oct. 29, 2015
- **Phys.Org:** *Physicist Links Dark Matter to Dinosaur Extinction in New Book,* by Alvin Powell, Oct. 27, 2015
- **Science:** *The Dark Side of the Universe,* by Janet Smit & Renske Smit, Oct. 02, 2015
- **Booklist:** *DMATD,* by Bryce Christensen, Sept. 15 2015
- **Publishers Weekly:** *DMATD,* Sept. 07, 2015
- **Kirkus Review:** *DMATD,* Sept. 03, 2015

ACCOLADES FOR *DARK MATTER AND THE DINOSAURS*

- **Financial Times:** *Best Books of 2016: Science - A Round-up of Must Reads,* by Clive Cookson, Dec. 02, 2016
- **The Orange County Register:** *This Week's Best-sellers at Southern California Independent Bookstores,* Nov. 10, 2016
- **Financial Times:** *Summer Reading 2016: Science*, Jul. 01, 2016
- **The Mail on Sunday:** *Science,* Apr. 12, 2016
- **Times Higher Education:** *Book of the Week,* Jan. 21, 2016
- **The Guardian:** *Book of the Day*, Jan. 21, 2016
- **The Yorkshire Post:** *This Year's Unputdownable Psychological Thrillers: Four Quick Reads,* Jan. 16, 2016
- **New York Times:** *Best Sellers,* Jan. 06, 2016
- **Quirks and Quarks:** *Quirks Annual Holiday Book Show*, Dec. 19, 2015

- **NBC News:** *12 Notable Tech and Science Books of 2015,* by Keith Wagstaff, Dec. 16, 2015
- **Miami New Times:** *The 11 Best Things to Do in Miami this Week,* by Miami New Times Staff, Dec. 16, 2015
- **Kirkus:** *Best Nonfiction Books of 2015*, Dec. 15, 2015
- **Science Friday:** *The Best Science Books of 2015,* by Maria Popova, Dec. 11, 2015
- **Brain Pickings:** *The Best Science Books of 2015,* by Maria Popova, Dec. 11, 2015
- **Symmetry:** *Physics Books of 2015*, by Mike Perricone, Dec. 15, 2015
- **Los Angeles Times:** *Holiday Books: Our 31 Nonfiction Picks,* Dec. 03, 2015
- **The Denver Post:** *Best Sellers,* Nov. 15, 2015
- **The National Book Review:** *5 Hot Books*, Nov. 09, 2015
- **Publishers Weekly:** *PW Picks: Books of the Week, October 26, 2015*, Oct. 23, 2015

REVIEWS: *HIGGS DISCOVERY*

- **Harvard Gazette:** *Explaining the Higgs: Lisa Randall's e-Book Drew Quick Attention, and a Publisher,* by Sarah Sweeney, Jan. 13, 2014.
- **Symmetry Magazine:** *Reading in the Higgs Era*, by Mike Perricone, Dec. 03, 2013.
- **Visindavefurinn:** *Ný bók: Máttur tómarúmsins: Higgs-eindin fundin*, Dec. 06, 2012.
- **88mph to Roswell:** *Higgs Discovery by Lisa Randall,* by ObiWanCanubi, Aug. 28, 2012.
- **Guardian:** *Higgs Discovery: The Power of Empty Space,* by Jon Butterworth, Aug. 25, 2012
- **PhysicsDatabase.com:** *Higgs Discovery: The Power of Empty Space,* Aug. 15, 2012.

REVIEWS: *KNOCKING ON HEAVEN'S DOOR*

- **Santa Barbara Independent:** *Lisa Randall Writes a Book of Big, Mind-Bending Ideas*, by Brian Tanguay, Feb. 25, 2014.

- **The Sunday Times (London):** *Pick of the Paperbacks*, Dec. 09, 2012
- **PhysicsDatabase.com:** *Knocking on Heaven's Door,* Oct. 12, 2012
- **Zeitung:** *Unvorstellbare Dimensionen*, Jul. 13, 2012
- **hansjobst.at:** *Die Vermessung des Universums,* by Hans Jobst, Apr. 2012
- **Das Magazin:** *Zu schön, um falsch zu sein*, Apr. 2012
- **Post:** *Ein kleiner Streifzug durch Neuerscheinungen auf dem Buchmarkt,* Apr. 15, 2012
- **Harvard Magazine:** *Off the Shelf*, Jan./Feb. 2012
- **Portland Book Review:** *Knocking on Heaven's Door,* by Michael Barton, Dec. 15, 2011
- **City Book Review:** *Knocking on Heaven's Door,* by Jennifer Ochs, Dec. 05, 2011
- **Courier:** *Knocking on Heaven's Door,* by Barbara Warmbein, Nov. 23, 2011
- **Science:** *As Far as Her Eyes Can See,* by Michael Shermer, Nov. 11, 2011
- **Symmetry Magazine:** *Lisa Randall's Chicago Appearance Is One for the Books*, by Mike Perricone, Nov. 08, 2011
- **American Scientist:** *Exploring Matter and the Cosmos*, by Peter Pesic, Nov. 01, 2011
- **Charleston Post and Courier:** *Physics Gets Down to Earth*, by Lisa Isringhausen, Oct. 30, 2011
- **SPACE.com:** *Knocking on Heaven's Door: Physicist Probes Mysteries of the Universe*, by Clara Moskowitz, Oct. 14, 2011
- **The Daily Beast:** *When Particles Collide*, by Alexander Fabry, Oct. 10, 2011
- **New York Times Book Review:** Oct. 09, 2011
- **New York Times:** *Will the Large Hadron Collider Explain Everything?* by Jim Holt, Oct. 07, 2011
- **New Scientist:** *An Insider's Guide to Modern Particle Physics,* by Michael Brooks, Sept. 29, 2011
- **New York Journal of Books:** *Knocking on Heaven's Door,* by Parminder Basran, Sept. 2011
- **Independent:** *Knocking on Heaven's Door,* by Manjit Kumar, Sept. 16, 2011
- **Sunday Times:** *One Giant Peep for Mankind,* by Christopher Potter, Sept. 2011

- **Christopher Potter Blog:** *Knocking on Heaven's Door,* by Christopher Potter, Sept. 17, 2011
- **Times Higher Education:** *Knocking on Heaven's Door,* by Athene Donald, Sept. 01, 2011
- **Booklist:** *Knocking on Heaven's Door,* Sept. 01, 2011
- **Kirkus Reviews:** *Knocking on Heaven's Door,* Jun. 2011
- **Publisher's Weekly:** *BEA Show Daily 2011: Lisa Randall-Searching for Answers,* by Suzanne Mantell, May 24, 2011

ACCOLADES FOR *KNOCKING ON HEAVEN'S DOOR*

- **The Sunday Times (London):** *Pick of the Paperbacks,* Dec. 09, 2012.
- **Discovery News:** *A Little Light Reading: 2011 in Physics Books,* by Jennifer Ouellette, Jan. 02, 2012
- **About.com Physics:** *Five Great Science Book Gift Ideas,* by Andrew Zimmerman Jones, Dec. 18, 2011
- **Scientific American Book Club:** *Top 11 Books of '11,* Dec. 27, 2011
- **New Scientist:** *Book of the Year,* Dec. 21, 2011
- **Indigo:** *Best of 2011: Non-Fiction,* Dec. 11, 2011
- **New York Times Book Review:** *100 Notable Books of 2011,* Nov. 21, 2011
- **Amazon Canada:** *Best Books of 2011,* Nov. 2011
- **Sunday Times (of London):** *Science Book of the Year,* Nov. 27, 2011
- **Independent:** *Book of the Week,* Sept. 16, 2011
- **Times Higher Education:** *Book of the Week,* Sept. 16, 2011
- **Time Out New York:** *This Week in New York,* Sept. 02, 2011
- **Smithsonian** (excerpt): *Ghosts, Aliens, Quantum Gravity, Extra Dimensions, Sci Fi—and the Rules of Science*, Sept. 22, 2011.

REVIEWS: *WARPED PASSAGES*

- **Science Daily:** *Book Review: Warped Passages,* Apr. 2007
- **Science:** *Bringing Hidden Dimensions into View*, by James D. Wells, Jan. 06, 2006.
- **Lunar and Planetary Information Bulletin:** *New and Noteworthy*, Dec. 2005.

- **Physics Today:** *Exploring Unseen Worlds in Wondrous Ways,* by Paul H. Frampton, Dec. 2005
- **American Scientist:** *Dimensions Demystified,* by Sean Carroll, Nov.–Dec. 2005
- **The New Yorker:** *Briefly noted*, Nov. 14, 2005
- **The New York Times:** '*Warped Passages': The Secret Universe,* by Tim Folger, Oct. 23, 2005
- **The Globe and Mail:** *Warped Passages,* by Sheila Jones, Oct. 22, 2005.
- **The Harvard Crimson:** *Book Elucidates Physics: Warped Passages –Unraveling the Mysteries of the Universe's Hidden Dimensions,* by Isabel Boero, Oct. 13, 2005
- **Los Angeles Times:** *Physics Strings Us Along,* by Margaret Wertheim, Oct. 11, 2005
- **The Times Higher Education Supplement:** *A New Dimension to Add to Your Knowledge of the Universe and Your Littlebits,* by Brian Cox, Sept. 16, 2005.
- **Bloomberg News:** *P-Branes Challenge Pea Brains in Survey of Physics Frontier,* by Jeffery Tannenbaum, Sept. 06, 2005
- **Library Journal Review:** *Warped Passages,* by Sara Rutter, Sept. 01, 2005.
- **ALA Booklist:** by Gilbert Taylor, Sept. 01, 2005
- **Publishers Weekly:** *Warped Passages,* Jul. 2005
- **Sunday Telegraph:** *Mind-Boggling New Worlds, Emma Chrichton-Miller Discovers What a Garden Has to do with the Hottest Topics in Particle Physics,* by Emma Crichton-Miller, Jun. 26, 2005
- **The Times Higher Education Supplement:** *A New Dimension,* by Lorna Kerry, Jun. 03, 2005
- **Nature:** *Expanding the Universe: Just How Many Dimensions Are There,* by Paul Davis, Jun. 30, 2005.

ACCOLADES FOR *WARPED PASSAGES*

- **Scientific American Book Club:** Club Favorites, Feb. 08, 2006.
- **The New York Times:** *100 Notable Books of the Year,* Dec. 04, 2005.
- **Amazon.com:** Editor's Picks, *Top Ten in Science,* Dec. 2005.

DOMESTIC RADIO AND TELEVISION

- **The Economist Radio:** *Babbage: Remembering Stephen Hawking,* Mar. 14, 2018
- **On Being with Krista Tippett:** *Dark Matter, Dinosaurs, and Extra Dimensions,* Sept. 29, 2017
- **Bill Nye Saves the World:** *Time Travel (Episode 206),* Jul. 24, 2017
- **Frans Johansson:** *Episode 9: Lisa Randall, Unlocking the Secrets of the Universe*, Jun. 26, 2017
- **Radio Open Source with Chris Lydon:** *Protests Need to Change into Power,* 90.9wbur. Apr. 27, 2017
- **ScienceNet:** *Those 7 Times Lisa Randall Went Next Level Genius,* Jan. 27, 2017
- **ScienceNet:** *Those 7 Times Lisa Randall Went Beast Mode,* Jan 15, 2017
- **GPS with Fareed Zakaria:** *Randall on What Killed the Dinosaurs,* Jan. 04, 2016
- **Charlie Rose:** *Dark Matter and the Dinosaurs?* Dec. 09, 2015
- **MPR News with Kerri Miller:** *What Caused the Comet that Killed the Dinosaurs?* Dec. 08, 2015
- **Big Think:** *Without Dark Matter, It's Unlikely That Any of Us Would Exist at All,* Dec. 04, 2015
- **Rainbow Light with Rick Kleffel:** *Lisa Randall Connects Dark Matter and the Dinosaurs: The Perturber,* Dec. 03, 2015
- **Business Insider:** *A Harvard Physicist Explains Why We Could Be in the Middle of the Sixth Mass Extinction,* Dec. 01, 2015
- **New York Times:** *Book Review Podcast 'Dark Matter and the Dinosaurs,* Nov. 29, 2015
- **NPR Wait Wait Don't Tell Me:** *Not My Job, Physics Professor Lisa Randall Gets Quizzed on Phys Ed,* Nov. 21, 2015
- **Forum with Michael Kransy:** *Dark Matter Killed the Dinosaurs and Helped Our Species Emerge,* Nov. 17, 2015
- **Business Insider:** *A Harvard Physicist Has an Incredible Theory for Why the Dinosaurs Went Extinct,* Nov. 16, 2015
- **On Being with Krista Tippett:** *Dark Matter and the Astounding Interconnectedness of Everything,* Nov. 12, 2015
- **Milt Rosenberg Show:** *Dark Matter and Dinosaurs with Dr. Lisa Randall,* Nov. 10, 2015

- **Chicago Tonight:** *Physicist Lisa Randall Connects Dark Matter to Dinosaur Extinction,* Nov. 10, 2015
- **The Arik Korman Show:** *Dark Matter and Dinosaurs,* Nov. 10, 2015
- **WHYY Radio Times with Marty Moss-Coane:** *Physicist Lisa Randall on Dark Matter and Dinosaurs,* Nov. 09, 2015
- **Test Tube with Julia Wilde:** *Did Dark Matter Kill the Dinosaurs,* Nov. 08, 2015
- **KWRC Press Play:** *Dark Matter and the Dinosaurs,* Nov. 04, 2015
- **AirTalk with Larry Mantle:** *Lisa Randall on Everything You Ever Wanted to Know About Dark Matter,* Nov. 04, 2015
- **New Day Northwest:** *New Theory Offered About What Killed the Dinosaurs,* Nov. 02, 2015
- **The Leonard Lopate Show:** *Is Dark Matter Responsible for the Great Extinction?* Oct. 27, 2015
- **HuffPost Live:** *Physicist Lisa Randall Explores the Evidence of what Killed the Dinosuars,* Oct. 27, 2015
- **Science Friday:** *Did Dark Matter Doom the Dinosaur,* Oct. 23, 2015
- **The Tim Ferriss Experiment:** *Thinking About Extra Dimensions with Lisa Randall,* Oct. 19, 2015
- **Happier with Gretchen Rubin:** *Thinking About Extra Dimensions with Lisa Randall The Habits of a Rebel Harvard Physicist,* Oct. 14, 2015
- **The Economist:** *What is the Universe Made Of?,* Aug. 20, 2015
- **PBS:** *Big Bang Machine,*WHDD *1020 AM*, Jan. 14, 2015
- **Science Insider with David Freeman:** Robinhoodradio.com,WHDD 1020 AM, Apr. 14, 2014
- **Science Friday,NPR, with Ira Flatow:** *At STREB Action Lab, Dance and Physics Collide*, Nov. 29, 2013
- **Aspen Public Radio:** Aspen 82, Jul. 19, 2013.
- **The Deep End with Walter Kirn:** The Lip TV, Jun. 17, 2013.
- **Taking Stock with Pimm Fox:** Bloomberg Television, Jun. 10, 2013.
- **Taking Stock with Pimm Fox:** Bloomberg Television, Apr. 26, 2013.
- **Hangout with CERN**, *Extra Dimensions*, Apr. 25, 2013.
- **DiscloseTruthTV2:** *The Physics of Extra Dimensions*, Feb. 23, 2013.
- **The Takeaway with John Hockenberry and Celeste Headlee:** Feb. 11, 2013
- **Berkeley Groks Science Show:** KALX, Oct. 12, 2012.
- **The Charlie Rose Show:** PBS, Oct. 08, 2012.

- **Point of Inquiry with Chris Mooney & Indre Viskontas:** Oct. 08, 2012
- **The Leonard Lopate Show:** WNYC, Aug. 08, 2012
- **The Charlie Rose Show:** PBS, Jul. 12, 2012.
- **The Takeaway with John Hockenberry and Celeste Headlee***:* Jul. 06, 2012.
- **The Brian Lehrer Show:** WNYC, Jul. 05, 2012.
- **Spectrum:** KALX, Jun. 29, 2012.
- **To the Best of Our Knowledge with Steve Paulson:** Wisconsin Public Radio, Jun. 03, 2012.
- **Insight:** Capital Public Radio, Apr. 17, 2012.
- **Radio Open Source with Christopher Lydon:** Mar. 08, 2012.
- **Focus:** WILL 580 AM, Feb. 07, 2012
- **Philosophy Talk:** KPCC Southern California Public Radio, Jan. 08, 2012.
- **Fareed Zakaria's GPS:** CNN, Jan. 01, 2012.
- **The Charlie Rose Show:** PBS, Dec. 20, 2011.
- **Studio 360 with Kurt Andersen:** WNYC, Dec. 16, 2011.
- **The Takeaway with John Hockenberry and Celeste Headlee:** Dec. 13, 2011.
- **The Brian Lehrer Show:** WNYC, Dec. 13, 2011.
- **AirTalk with Larry Mantle:** KPCC, Dec. 13, 2011.
- **John Batchelor Show:** WABC-AM/KFI-AM, Nov. 30, 2011.
- **Think Atheist Radio:** Nov. 27, 2011.
- **On Point:** WBUR, *Lisa Randall: Physics, Science, and the Universe*, Nov. 14, 2011.
- **Little Atoms:** Resonance 104.4 FM, Nov. 11, 2011.
- **Tavis Smiley Show:** PBS-TV, Nov. 03, 2011.
- **Extension 720 with Milt Rosenberg:** WGN Radio, Nov. 01, 2011.
- **tastytrade:** Nov. 01, 2011.
- **Chicago Amplified:** WBEZ, Nov. 01, 2011.
- **Mind Matters with Ajayan Borys:** *Healthy You Radio,* Oct. 31, 2011.
- **Boston Sunday Review:** WBZ-FM, Oct. 29, 2011.
- **Conner Calling with Hank Conner:** WUFT-FM, Oct. 28, 2011.
- **The Daily Show with Jon Stewart:** Comedy Central, Oct. 26, 2011.
- **Air Talk with Larry Mantle:** KPCC, Oct. 26, 2011.
- **The Agony Column with Rick Kleffel:** KUSP, Oct. 17, 2011.
- **Living Dialogues:** KGNU, Oct. 14, 2011.
- **David Lile Show:** KFRU-AM, Oct. 13, 2011.

- **The Morning Show:** KINK-FM, Oct. 12, 2011.
- **Ross and Burbank with Dave Ross and Luke Burbank:** KIRO, Oct. 12, 2011.
- **Groks Science Show:** WHPK, Oct. 12, 2011.
- **Pathways Radio with Paul O'Brien and Tom Park:** KBOO-FM, Oct. 11, 2011.
- **Michael Medved Show:** Salem Radio Network, Oct. 10, 2011.
- **Book TV:** CSPAN, *Politics and Prose Public Event: Lisa Randall,* Oct. 08, 2011.
- **To the Best of Our Knowledge with Steve Paulson:** Wisconsin Public Radio, Oct. 05, 2011.
- **CBS Radio:** Oct. 05, 2011.
- **Radio KUSP:** Oct. 05, 2011.
- **Drinks with Tony with Tony DuShane:** *Radio Valencia*, appeared Oct. 04, 2011.
- **Pirate Cat Radio:** 87.9 FM, Oct. 04, 2011.
- **Late Morning with Jeff Schechtman:** KVON-AM, NPR, Oct. 04, 2011.
- **Bulldog and the Rude Awakening Show:** WOCM-FM, Oct. 03, 2011.
- **Fox News:** Oct. 03, 2011.
- **The Leonard Lopate Show:** WNYC, Oct. 03, 2011.
- **Science Friday with Ira Flatow:** NPR, Sept. 30, 2011.
- **MPR News:** Minnesota Public Radio, *Seeking Answers in Science,* Sept. 29, 2011.
- **The Nite with Tom Mischke:** WCCO, Sept. 28, 2011.
- **Lewis at Large with Warner Lewis:** WCCO, Sept. 26, 2011.
- **Mayhem in the A.M. with Seth Mela:** WLKF-AM, Sept. 26, 2011.
- **Brainstormin' with Billy the Brain with Bill Frank:** KKZZ-AM, Sept. 26, 2011.
- **America's Radio News with Ernie Brown and Lori Lundin:** America's Radio News Network, Sept. 26, 2011.
- **Book TV:** CSPAN, *Politics and Prose Public Event: Lisa Randall*, Sept. 20, 2011.
- **The Charlie Rose Show:** PBS, Sept. 16, 2011.
- **Shining City More Than 3-D:** *Lisa Randall (Thought Leader),"* Oct. 08, 2010.
- **The Leonard Lopate Show:** NPR, *Please Explain: Matter, Anti-Matter and Dark Matter,* May 21, 2010.

- **The Take Away with John Hockenberry and Celeste Headlee:** NPR, *Large Hadron Collider Online*, Mar. 31, 2010
- **The Charlie Rose Show:** *Science Series, Large Hadron Collider with Lisa Randall of Harvard and Kyle Cranmer of NYU*, Mar. 30, 2010.
- **Explorations:** *String Theory, M-theory, Parallel Worlds Pt. 6,* Video interview with Dr. Michio Kaku, Dec. 26, 2009.
- **Explorations:** *String Theory, M-theory, Parallel Worlds Pt. 5,* Video interview with Dr. Michio Kaku, Dec. 26, 2009.
- **Science Friday with Ira Flatow:** NPR, *Space, Time, and Hidden Dimensions*, Mar. 20, 2009
- **That's Cosmic!:** SETI Institute: *Are We Alone?* Dec. 08, 2008
- **On Point with Tom Ashbrook:** NPR, *Crash! Bang! The Large Hadron Collider*, Sept. 11, 2008.
- **The Charlie Rose Show:** Science Series, PBS**,** *The Imperative of Science,* Apr. 2008.
- **Utah Now with Doug Fabrizio:** KUED, Mar. 2008.
- **The Colbert Report:** Comedy Central, Feb. 2008
- **Science and Literature Symposium:** KUER RadioWest, Feb. 2008.
- **ScienceNow:** PBS NOVA, *CERN's Large Hadron Collider*, Jul. 2007.
- **The Charlie Rose Show:** Interview on Multi Dimensions, Dec. 12, 2006.
- **Interview with William Lowe:** Evergreen News Radio, May 30, 2006.
- **Studio 360 with Kurt Andersen:** WNYC, May 26, 2006.
- **This Week in Science:** KDVS-UC Davis, May 09, 2006.
- **Science Fantastic with Dr. Michio Kaku:** Talk Radio Network NY, Apr. 29, 2006.
- **Open Source with Christopher Lydon:** WGBH, Apr. 26, 2006.
- **The Morning Show featuring Jody Dean:** KLUV-FM, Apr. 24, 2006.
- **ThoughtCast - Arts and Ideas with Jenny Attiyeh:** WGBH, Apr. 10, 2006.
- **Science and Society with Dr. David Lemberg:** World Talk Radio, Apr. 05, 2006.
- **The Leonard Lopate Show:** WNYC, Mar. 29, 2006.
- **Planetary Radio with Mat Kaplan:** The Planetary Society, Mar. 18, 2006.
- **Coast to Coast AM with Art Bell:** Feb. 25, 2006.
- **The Mr. KABC Show:** KABC, Feb. 13, 2006.
- **AirTalk with Larry Mantle:** KPCC, Feb. 13, 2006.

- **Science and Society with Dr. David Lemberg:** World Talk Radio, Feb. 08, 2006.
- **This Week in Science:** KDVS-UC Davis, Feb. 07, 2006.
- **The John Williams Show:** WGN, Feb. 02, 2006.
- **Your Call with Mary Ambrose and Rebecca Roberts:** KALW, Jan. 30, 2006.
- **Inquiry with Mark Lynch:** WICN, Jan. 29, 2006.
- **Chicago Public Radio:** *New Views of the Universe: Extra Dimensions, Dark Energy and Cosmic Adventures*, Jan. 22, 2006.
- **Book TV:** C-SPAN2, Jan. 15 and 16, 2006.
- **Interview with Harry Allen:** WBAI-NY, Jan. 13, 2006.
- **U-WIRE with Michael Miller:** Jan. 09, 2006.
- **KXJZ's Capital Public Radio with Jeffrey Callison:** Jan. 09, 2006.
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- **Geek Picnic:** *Dark Matter and the Dinosaurs,* St. Petersburg, Russia. Aug. 2018

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- **DLD (Digital Life Design) Pictet Conference and Dinner:** New York, NY. May 2017
- **Kentucky Chautauqua Lecture Series:** *Dark Matter and the Dinosaurs,* Eastern Kentucky University, Lexington, KY. Apr. 2017
- **University of Dayton Speaker Series:** *An Evening with Dr. Lisa Randall in Conjunction with the Annual Brother Joseph W. Stander Symposium,* University of Dayton, Dayton, OH. Apr. 2017
- **Harvard Museums of Science and Culture:** *Knocking on Heaven's Door, Scaling the Universe,* Harvard University, Cambridge, MA. Apr. 2017
- **Grand Unified Party for Howard Georgi:** Cambridge, MA. Apr. 2017
- **DLD (Digital Life Design) 2017:** *Dark Matter and the Dinosaurs,* DLD Media, Munich, Germany. Jan. 2017
- **Think Inc.:** *An Evening With Dr. Lisa Randall*, Sydney, Brisbane, and Melbourne, Australia. Nov. 2016
- **2016 Blouin Creative Leadership Summit:** *Panel Discussion*, New York City, NY. Sept. 2016.
- **DAI (Deutsch-Amerikanisches Institute) Heidelberg:** *Dunkle Materie und Dinosaurier*, Heidelberg, Germany. Jul. 2016.
- **Aspen Ideas Festival:** *Deep Dive: Space--Why We Explore*, Aspen Ideas Festival, Aspen, CO. Jun. 2016.
- **Aspen Ideas Festival:** *Spacetime Ripples and Einstein's Legacy*, Aspen Ideas Festival, Aspen, CO. Jun. 2016.
- **Aspen Ideas Festival:** *Dark Matter and the Dinosaurs*, Aspen Ideas Festival, Aspen, CO. Jun. 2016.

- **Tokyo University Public Lecture:** *Dark Matter and the Dinosaurs,* KAVLI Institute for the Physics and Mathematics of the Universe, Tokyo, Japan. Jun. 2016
- **Korea University Public Lecture:** *Dark Matter and the Dinosaurs,* Korea University, Seoul, Korea. Jun. 2016
- **Niels Bohr Lecture:** *Dark Matter and the Dinosaurs,* Center for Quantum Devices, Niels Bohr Institutet, Copenhagen, Denmark. Jun. 2016
- **Science & Cocktails:** *Dark Matter and the Dinosaurs,* Niels Bohr Institutet, Københavns Universitet, Copenhagen, Denmark. Jun. 2016
- **Center for Quantum Devices Lecture:** *Dark Matter and the Dinosaurs,* Niels Bohr Institutet, Københavns Universitet, Copenhagen, Denmark. Jun. 2016
- **World Science Festival:** *Shaking Up the Dark Universe*, New York City, New York. Jun. 2016
- **World Science Festival:** *Science and Story Cafe*, New York City, New York. Jun. 2016
- **Ciudad de las Ideas, Origins of the Future:** *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe*, Expo Guadalajara, Jalisco, MX. Apr. 2016.
- **Geneva Leadership Exchange:** *Lessons on Leadership from the Scientific World*, UN System Staff College, Geneva, CH. Apr. 2016.
- **2016 American Physical Society April Meeting:** *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe,* American Physical Society, Salt Lake City, Utah. Apr. 2016.
- **The Writers House:** *Dark Matter and the Dinosaurs*, Merrimack College, North Andover, MA. Apr. 2016.
- **Isaac Asimov Memorial Debate:** *Is the Universe a Simulation?* American Museum of Natural History, New York City, NY. Apr. 2016.
- **The Francis Crick Lecture:** *Dark Matter and the Dinosaurs*, Salk University, La Jolla, CA. Mar. 2016.
- **Nambu Memorial Symposium:** *A 750 GeV Scalar: Sign of Strong Dynamics?/Bulk RS,* The University of Chicago, Chicago, IL. Mar. 2016.
- **The Royal Institution:** *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe*, London, UK. Jan. 2016.
- **How to Academy:** *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe*, London, UK. Jan. 2016.

- **York Science Forum, Inaugural Lecture:** *Dark Matter and the Dinosaurs,* York University, Toronto, Canada. Dec. 2015.
- **Science Up Close:** *Dark Matter and the Dinosaurs,* Books and Books, Coral Gables, FL. Dec. 2015.
- **Frontier Series:** *Dark Matter and the Dinosaurs*, Hayden Planetarium, New York City, NY. Dec. 2015.
- **Science Salon:** *Dark Matter and the Dinosaurs,* The Skeptics Society, Altadena, CA. Nov. 2015.
- **Bookshop Santa Cruz:** *Dark Matter and the Dinosaurs*, Santa Cruz, CA. Nov. 2015.
- **Arts & Ideas:** *Dark Matter and the Dinosaurs,* JCCSF, San Francisco, CA. Nov. 2015.
- **Chicago Public Library and Illinois Science Council:** *Dark Matter and the Dinosaurs*, Chicago, IL. Nov. 2015.
- **Free Library of Philadelphia:** *Dark Matter and the Dinosaurs,* Philadelphia, PA, Nov. 2015.
- **Tattered Cover:** *Dark Matter and the Dinosaurs*, Denver, CO. Nov. 2015.
- **Live Talks LA, with Walter Kirn:** *Dark Matter and the Dinosaurs*, Santa Monica, CA. Nov. 2015.
- **New Roads High School:** *Q&A*, Santa Monica, CA. Nov. 2015.
- **Town Hall Seattle:** *How Dark Matter Killed the Dinosaurs*, Seattle, WA. Nov. 2015.
- **Brattle Theater:** *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe,* Harvard Bookstore, Cambridge, MA. Oct. 2015.
- **Politics and Prose:** *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe*, Washington, D.C. Oct. 2015.
- **92St Y:** *Lisa Randall and Bill Nye the Science Guy,* New York City, NY. Oct. 2015.
- **Boston Book Festival:** *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe*, Trinity Sanctuary, Boston, MA. Oct. 2015.
- **Invisibles 15 Workshop:** Invisibles Meets Visibles *Outreach: Extra Dimensions,* Instituto de Fisica Teorica, Madrid, Spain. Jun. 2015.
- **Cambridge Science Festival:** *Speaking of Einstein*, Cambridge, MA, Apr. 2015
- **James S. Plant Distinguished Scientist Lecture:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Uni-*

verse and the Modern World, Hamilton College, Clinton, NY, Mar. 2015

- **Sydney Ideas:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World*, University of Sydney, NSW, Australia, Dec. 2014
- **16th Global Edition of the Women In Leadership (WIL) Economic Forum 2014:** (Gender Parity, Women's Empowerment, Diversity and Inclusion). *How Women in STEM Fields Can Thrive*, Dubai, UAE, Nov. 2014.
- **Fields and Strings Seminar:** *Decoupling of High Dimension Operators from the Low Energy Sector in Holographic Models*, Ludwig-Maximilians Universitat, Muchen, Germany, Sept. 2014
- **Curiosity Retreats 2014:** *Discovering Cosmology & Particle Physics*, Gateway, CO, May/Jun. 2014
- **Furman Engaged! Series:** *Religion and Science in the Modern World,* Furman University, Greenville, SC, Apr. 2014
- **National Science Foundation (NSF) Distinguished Lectures in Mathematical and Physical Sciences:** *Dark Matter and the Invisible Universe*, National Science Foundation, Arlington, VA, Apr. 2014
- **Dialog:** 2014, Mar. 2014
- **UCSB Arts & Lectures Series:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World*, University of California, Santa Barbara, Mar. 2014
- **Kalvi IPMU (Institute for the Physics and Mathematics of the Universe):** *Knocking on Heaven's Door,* University of Tokyo, Bunkyo-ku, Tokyo, Japan, Jan. 2014
- **Princeton, Louis Clark Vanuxem Public Lecture:** *Knocking on Heaven's Door,* Princeton University, NJ, Nov. 2013
- **The New Yorker Book Festival, Panel:** *The God Particle: Hunting the Higgs Boson,* New York, Oct. 2013
- **Arcana Festival for New Music:** *Interview with Peter Oswald*, Helmut List Halle Graz, Austria, Aug. 2013
- **Arnold Sommerfeld Center for Theoretical Physics:** *Double Disk Dark Matter,* Ludwig Maximilians Universitat Munchen, Munich, Germany, Aug. 2013
- **Aspen Ideas Festival:** *Expanding Our Horizons: Matter, Space, and the Universe*, Colorado, Jun. 2013
- **GIFRE, El Celler de Can Roca Operatic Dinner:** *(CCR + A). X= "el somni" ("The Dream"), (A multidisciplinarian opera project,*

merging art and culinary works in twelve acts), Barcelona, Spain, May 2013

- **Guy Stanton Ford Lectureship Program:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World,* University of Minnesota, Minneapolis, Apr. 2013
- **Peyton Rhodes Lecture:** *Knocking on Heaven's Door: An Evening with Dr. Lisa Randall*, Rhodes College, Memphis, TN, Apr. 2013
- **Convocation Series:** *An Evening with Dr. Lisa Randall*, Oberlin College, Oberlin, Ohio, Apr. 2013
- **2013 American Physical Society April Meeting:** *American Science and America's Future*, Denver, CO, Apr. 2013
- **2012 American Institute of Physics Andrew Gemant Award Lecture:** *Truth and Beauty and Other Scientific Misconceptions*, University of Denver, Colorado, Apr. 2013
- **Celebrating Einstein:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World*, Montana State University, Bozeman, MT, Mar. 2013
- **Credit Suisse:** New York, NY, Mar. 2013
- **STS Science and Democracy Lecture and Panel Discussion with Sir Paul Nurse:** *Making Science Work,* Harvard University, Cambridge, MA, Feb. 2013
- **AAAS 2013 Annual Meeting:** *What is Dark Matter?* Hynes Convention Center, Boston, MA, Feb. 201
- **AAAS 2013 Annual Meeting:** *Writing About Science for the Public: Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe*, Hynes Convention Center, Boston, MA, Feb. 2013
- **2013 Beyond Annual Lecture:** *Knocking on Heaven's Door: How Science Illuminates the Universe*, Arizona State University, Tempe, AZ, Feb. 2013
- **Sundance Film Festival:** Judge, Sloan Foundation Prize Panel, Park City, UT, Jan. 2013
- **Exchanges at the Frontier:** London, UK, Dec. 2012
- **Lexington Community Education:** *Knocking on Heaven's Door: An Evening with Lisa Randall*, Lexington, MA, Dec. 2012
- **Los Angeles Public Library:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World*, Los Angeles, CA, Nov. 2012

- **La Ciudad de las Ideas es un Festival Internacional de Mentes Brillantes:** *Dimensiones Sin Limites—Lisa Randall en CDIdeas,* Puebla, Mexico, Nov. 2012
- **Google Zeitgeist Americas 2012:** Paradise Valley, AZ, Oct. 2012
- **Genoa Book Fair:** Genoa, Italy, Oct. 2012
- **Ensemble Studio Theatre/Sloan Foundation Science and Technology Project Artist Cultivation Event:** New York, NY, Sept. 2012
- **Kavli Prize:** Sept. 2012
- **Idea Festival:** Louisville, KY, Sept. 2012
- **WWW Conference:** Intellectual Jazz, organized by Richard Saul Wurman, creator and director, *Lisa Randall & Scott Bolton: Science You Can't See*, Redlands, CA, Sept. 2012
- **Science Without Limits Symposium:** Lewis and Clark College, Portland, OR, Sept. 2012
- **Science, Technology and Policy Forum:** National Academy of Sciences, Sept. 2012
- **The 2012 Heinz R. Pagles Public Lecture Series:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World,* Aspen Center for Physics, Colorado, Aug. 2012
- **Euroscience Open Forum 2012:** Keynote Address, Dublin, Ireland, Jul. 2012
- **Yellowstone Group:** Bozeman, MT, Jul. 2012
- **Hans A. Bethe Lecture:** *Knocking on Heaven's Door*, Cornell University, Ithaca, NY, May 2012
- **Hunter College:** Great Thinkers Series, May 2012
- **Einstein Forum:** Potsdam, Germany, Apr. 2012
- **National Science and Engineering Book Fair:** Washington, D.C., Apr. 2012
- **Space Foundation:** Colorado Springs, CO, Apr. 2012
- **Radcliffe Institute:** San Francisco, CA, Apr. 2012
- **Radcliffe Institute:** Palo Alto, CA, Apr. 2012
- **Chapman University:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World*, Orange, CA, Mar. 2012
- **Presidential Speaker Series:** Rhode Island School of Design, Feb. 2012
- **Class of '37 Directed Studies Colloquium:** *Scaling the Universe*, Whitney Humanities Center, Yale University: New Haven, CT, Feb. 2012

- **DLD12:** Munich, Germany, Jan. 2012
- **AAAS DoSER Holiday Lecture:** Dec. 21, 2011
- **Harvard Bookstore (with Brattle Theatre):** Cambridge, MA, Nov. 08, 2011
- **Chicago Public Library:** Chicago, IL, Nov. 01, 2011
- **Tattered Cover Bookstore:** Denver, CO, Oct. 27, 2011
- **Compass Summit:** Rancho Palos Verdes, CA, Oct. 25, 2011
- **Royal Society of Arts (with Blackwell's):** London, UK, Oct. 18, 2011
- **Bristol Festival:** Oct. 17, 2011
- **Cheltenham Literature Festival:** Cheltenham, UK, Oct. 16, 2011
- **Boston Book Festival:** Boston, MA, Oct. 15, 2011
- **Town Hall Seattle:** Seattle Science Lectures, Seattle, WA, Oct. 12, 2011
- **The Linus Pauling Memorial Lectures:** (with Powell's Bookstore), Oct. 11, 2011
- **The Skeptics Society:** (with California Institute of Technology), Oct. 10, 2011
- **Griffith Observatory:** All Space Considered Series, Los Angeles, CA, Oct. 07, 2011
- **San Francisco Jewish Community Center:** San Francisco, CA, Oct. 05, 2011
- **Book Passage:** (Corte Madera, CA), Oct. 04, 2011
- **92Y:** New York City, NY, Oct. 0 2, 2011
- **Minneapolis Public Library:** Talk of the Stacks, Sept. 29, 2011
- **Philadelphia Free Library:** Sept. 2011
- **Boston Museum of Science:** Lowell First Friday Lecture Series, Sept. 21, 2011
- **Politics and Prose:** Sept. 20, 2011
- **American Museum of Natural History:** Distinguished Author Lecture Series, Sept. 19, 2011
- **Forstmann Little Aspen Conference:** Sept. 2011
- **Ars Electronica:** Linz, Austria, Sept. 2011
- **AAAS Annual Meeting:** String Theory and New Physics, Washington, D.C., Feb. 2011
- **Harvard Thinks Big II:** Harvard University, Cambridge, MA, Feb. 2011
- **Rome Science Festival:** Il Lontano Destino Finale Della Terra, Rome, Italy, Jan. 2011

- **Artisphere, Creative Collaboration Between Art and Science:** *A Discussion with Lia Halloran, Dr. Lisa Randall & Big Prototype*, Arlington, VA, Nov. 2010
- **Techonomy Opening Panel:** *Popular Techonomy: Can the World Be Turned in a Techonomic Direction?* Tahoe, CA, Aug. 2010
- **Thirteen Forum/New York Academy of Sciences (NYAS)/ATLAS:** *Pop-Up Particle Physics from the Large Hadron Collider,* May 2010
- **Cambridge Science Festival:** *Big Ideas for Busy People*, Apr. 2010
- **Cambridge Forum 2010, Marcia Bartusiak and Lisa Randall:** *Science and Creativity*, Apr. 2010
- **Erna Hamburger Prize Lecture 2010:** École Polytechnique Fédérale de Lausanne/WISH Foundation, *Warped Passages: My Experience in Physics*, Lausanne, Switzerland, Mar. 2010
- **Talk:** *Hypermusic: Ascension, panel discussion with Hector Parra and Matthew Ritchie*, Guggenheim Museum, New York, Mar. 2010.
- **92St Y:** *Giants of Science*, moderated by Robert Krulwich, Mar. 2010
- **U.S. House of Representatives Committee on Science and Technology on:** *Investigating the Nature of Matter, Energy, Space, and Time,* (Randall testimony), Washington, D.C., Oct. 2009
- **2009 Global Creative Leadership Summit:** New York City, NY, Sept. 2009
- **Adventures of the Mind:** Princeton, NJ, Aug. 2009
- **Whitney Museum:** *Whitney Museum of American Art Panel on Creativity: Does Art Matter Now?* Moderated by Peter Galison, with Artist Vik Muniz, Physicist Lisa Randall, Pollster of fivethirtyeight.com Nate Silver, and Choreographer Elizabeth Streb, Jun. 2009
- **2009 Benjamin Franklin Creativity Laureate interview with Michael Turner:** The Smithsonian Associates and the Creativity Foundation, Apr. 2009
- **2009 Joseph Lannutti Lecturer (Origins '09):** Florida State University, Mar. 2009
- **2009 IEEE Aerospace Conference:** Big Sky, Montana, Mar. 2009
- **Presidential Lecture:** University of Tulsa, Feb. 2009
- **2008 Chicago Humanities Festival:** Chicago, IL, Oct. 2008
- **Young Women's Leadership Charter School:** Chicago, IL, Oct. 2008
- **2008 Global Creative Leadership Summit:** New York, Sept. 2008
- **GE Leading and Learning:** *Influence and Impact*, Ossining, NY, May 2008

- **Milken Global Conference:** Los Angeles, CA, Apr. 2008 [slides]
- **Utah Symposium in Science and Literature:** Salt Lake City, UT, Feb. 2008
- **DLD (Digital, Life, Design) Conference:** Munich, Germany, Jan. 2008
- **World Economic Forum Annual Meeting 2008:** Davos, Switzerland, Jan. 2008
- **E.W. Guptill Memorial Lecture:** Dalhousie University, Halifax, Nova Scotia, Canada, Oct. 2007
- **2007 Global Creative Leadership Summit:** Metropolitan Club, New York, NY, Sept. 2007
- **University of Tokyo:** Koshiba Hall, Tokyo, Japan, Jul. 2007
- **2007 American Crystallographic Association Meeting:** Salt Lake City, UT, Jul. 2007
- **Strings 07:** Auditorium of the BBVA Foundation, Instituto de Fisica Teorica (IFT-UAM/CSIC), Madrid, Spain, Jun. 2007
- **IdeaCity07**: Toronto, Canada, Jun. 2007
- **University of Antwerp:** Antwerp, Belgium, Apr. 2007
- **2007 American Association of Neurological Surgeons Annual Meeting:** Washington Convention Center, Washington, D.C., Apr. 2007
- **2007 Case Western Reserve University's Distinguished Lecture:** Cleveland, OH, Mar. 2007
- **Gamov Memorial Lecture Series:** University of Colorado, Boulder, Mar. 2007
- **Dr. James Borland Convocation Speaker Series:** Adrian College, Adrian, MI, Mar. 2007
- **J. James Woods Lecture Series:** Butler University, Indianapolis, IN, Mar. 2007
- **Joseph and Sophia Konopinski Memorial Lecture:** Indiana University, Bloomington, IN, Mar. 2007
- **William C. Ferguson Science Lecture:** Washington University, Feb. 2007
- **Light in Winter Festival:** Cornell University, Ithaca, NY, Jan. 2007
- **2006 Cultural Life Lecture Series:** Johnson & Wales University, Providence, RI, Dec. 2006
- **SEED Inspiration Festival:** New York, NY, Dec. 2006
- **Syracuse Symposium 2006:** Syracuse University, NY, Nov. 2006

- **Global Creative Leadership Summit:** New York, NY, Nov. 2006
- **Genoa Science Festival:** Genoa, Italy, Nov. 2006
- **Albert Einstein Institute Forum:** Potsdam, Germany, Nov. 2006
- **New England Conservatory 's Presidential Lecture Series:** Boston, MA, Oct. 2006
- **Friday Forum:** Warped Passages, Harvard Book Store, Cambridge, MA, Oct. 2006
- **Fermilab Lecture Series:** Batavia, IL, Oct. 2006
- **Ann Radcliffe Lecture:** Harvard University, Cambridge, MA, Sept. 2006
- **Second World Conference on the Future of Science:** Fondazione Giorgio Cini, Venice, Italy, Sept. 2006
- **COPEA Lecture Series:** Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, Aug. 2006
- **APPT Klopsteg Memorial Lecture Award:** Syracuse University, NY, Jul. 2006
- **Warped Passages at Authors@Google:** Google Inc., Palo Alto, CA, Jul. 2006
- **Festival of the Fourth Dimension:** Sophia Antipolis Côte d'Azur, France, Jun. 2006
- **54th ASMS Conference on Mass Spectrometry:** Seattle, WA, May 2006
- **Town Hall Seattle Science Lecture Series:** Seattle, WA, May 2006
- **American Physical Society April Meeting 2006:** "An Evening of String Theory and Cosmology," Dallas, TX, Apr. 2006
- **Texas A&M University Public Lecture Series:** College Station, TX, Apr. 2006
- **Kent State University Artist Lecture Series:** Kent, OH, Apr. 2006
- **2006 Isaac Asimov Memorial Debate:** American Museum of Natural History, New York, Mar. 2006
- **University of Wisconsin Distinguished Scholars Lectures:** Whitewater, WI, Mar. 2006
- **Perimeter Institute Public Lecture Series:** Waterloo, Canada, Mar. 2006
- **TED (Technology, Entertainment, Design) 2006 Conference:** Monterey, CA, Feb. 2006
- **CalTech Skeptics Distinguished Lecture Series:** Pasadena, CA, Feb. 2006

- **Adler Planetarium Freaky Friday Series:** Chicago, IL, Feb. 2006
- **Columbia University and Ivy League Alumni Associations of Chicago:** Chicago, IL, Feb. 2006
- **Lawrence University Convocation Series:** Jan. 2006
- **High Energy Frontier Theory Initiative Public Lecture:** UC Davis, Jan. 2006
- **Science Center Research Lectures:** Harvard University, Cambridge, Dec. 2005
- **New Views of the Universe Inaugural Symposium:** The Kavli Institute, Chicago, IL, Dec. 2005
- **International Lecture Series:** *XXIII Solvay Conference in Physics*, Brussels, Belgium, Dec. 2005
- **2005 Lecturology Series:** Museum of Science, Boston, MA, Nov. 2005
- **Honors Program Lecture 2005:** Valencia Community College, Orlando, FL, Nov. 2005
- **UC Santa Cruz Arts and Lectures:** *Celebrating 100th Anniversary of Einstein's Theory of Relativity*, CA, Nov. 2005
- **IDEAS Boston 2005:** Boston, MA, Oct. 2005
- **New York Public Library:** Science, Industry and Business Library, New York, Oct. 2005
- **Hayden Space Theater:** American Museum of Natural History, New York, Oct. 2005
- **Smithsonian Resident Associate Program:** Smithsonian National Museum of American History, Washington, D.C., Sept. 2005
- **The Heinz R. Pagels Memorial Public Lectures:** Aspen Center for Physics, Aspen, CO, Aug. 2005
- **Adventures of the Mind:** Palo Alto, CA, Aug. 2005
- **University of Queensland Public Lecture Series:** Brisbane, Australia, Aug. 2005
- **Copeland Theatre:** University of Melbourne, Australia, Aug. 2005
- **University of Technology:** University of Sydney, Australia, Aug. 2005
- **Cheltenham Festival of Science:** Cheltenham, UK, Jun. 2005
- **Royal Institution:** London, UK, Jun. 2005
- **The Kirkland/Spizuoco Memorial Science Lecture Series:** Shippensburg University, PA, Apr. 2005
- **Littleton-Franklin Lecture in Sciences and Humanities:** at Auburn University, AL, Nov. 2004

- **MIT Gender Equity Conference:** Washington, D.C., Apr. 2004
- **University of Rome:** Italy, Apr. 2003
- **Siemens-Westinghouse Science Competition Keynote Speaker:** Washington, D.C., Dec. 2000
- **Aspen Public Lecture:** Aspen, CO, Aug. 2000

WORKSHOP and CONFERENCE ORGANIZATION

- **3rd Annual International Conference on High Energy Physics Organizer:** *New Directions in Experiment and Theory of High Energy Physics,* Rome, Italy. Dec. 2017.
- **Grand Unified Party for Howard Georgi:** Cambridge, MA. Apr. 2017
- **MIAPP/Munchner Physik-Kolloquium Organizer:** *Double Disk Dark Matter,* Munich Institute for Astro and Particle Physics, Munich, Germany. Jul. 2015.
- **Organizing Committee, Symposium:** The First Year of LHC Physics, Ann Arbor, MI, Dec. 2010
- **International Advisory Committee:** European Physical Society, EuroPhysics Conference on High Energy Physics, Krakow, Poland, Jul. 2009
- **International Advisory Committee:** Strings 2009, The Pontificia Università S. Tommaso, Rome, Italy, Jun. 2009
- **International Advisory Committee:** SUSY '09, 17th International Conference on Supersymmetry and the Unification of Fundamental Interaction, Northeastern University, Jun. 2009
- **International Advisory Committee:** National Research Council's Board on Physics and Astronomy, Nov. 2008
- **Advisory Committee:** LHC New Physics Signatures Workshop, Michigan Center for Theoretical Physics, Ann Arbor, MI, Jan. 2008
- **Program Committee:** SUSY '07, 15th International Conference on Supersymmetry and the Unification of Fundamental Interactions, Karlsruhe, Germany, Jul. 2007
- **International Advisory Committee:** Strings 2007, Madrid, Spain, Jun. 2007
- **Scientific Organizing Committee:** 23rd Texas Symposium on Relativistic Astrophysics, Melbourne, Australia, Dec. 2006

- **International Advisory Program Committee:** XXXIII International Conference on High Energy Physics, Moscow, Russia, Jul. 2006
- **Program Committee:** Cosmic Inflation, UC-Davis, Mar. 2003
- **International Advisory Committee:** Cosmo-02, International Workshop on Particle Physics and the Early Universe, Chicago, IL, Sept. 2002
- **International Advisory Board:** Aspen Winter Conference on Particle Physics, Aspen, CO, Jan. 2002
- **International Advisory Committee:** Abdus Salam International Center for Theoretical Physics (ICTP) and Italian Institute for Nuclear Theory (INFN), Beyond Four Dimensions, Trieste, Italy, Jul. 2000
- **International Scientific Advisory Committee:** SUSY '00, Eighth International Conference on Supersymmetries in Physics, CERN, Geneva, Switzerland, Jul. 2000
- **International Advisory Board:** Aspen Winter Conference on Particle Physics, Aspen, CO, Jan. 2000
- **Organizer (with D. Kutasov and M. Shifman):** Conference on Extra Dimensions in Field Theory and String Theory, Institute for Theoretical Physics, Santa Barbara, Nov. 1999
- **Coordinator (with D. Kutasov and M. Shifman):** Supersymmetric Gauge Dynamics and String Theory, Workshop at the Institute for Theoretical Physics, Santa Barbara, Aug. 1999–Dec. 1999
- **International Scientific Advisory Committee:** SUSY '99, Seventh International Conference on Supersymmetries in Physics, Fermilab, IL, Jun. 1999
- **International Advisory Board:** Aspen Winter Conference: Advances in Particle Physics, Jan. 1999
- **International Scientific Advisory Committee:** SUSY '98, Sixth International Conference on Supersymmetries in Physics, Oxford, England, Jul. 1998
- **Santa Barbara Institute for Theoretical Physics Advisory Board:** 1998–2001
- **International Scientific Advisory Committee:** SUSY '97, Fifth International Conference on Supersymmetries in Physics, Philadelphia, PA, Jun. 1997
- **Program Committee:** Rencontres de Moriond, Electroweak Session, Mar. 1997–Mar. 2000
- **Board of General Members:** of the Aspen Center for Physics, 1997–present

- **Organizer, Quarks:** The Third Generation, Top and Bottom Quarks and Weak Interactions, Institute for Theoretical Physics, Santa Barbara, Apr. 1994
- **Coordinator:** Weak Interactions Workshop at the Institute for Theoretical Physics, Santa Barbara, Jan. 1994–Jun. 1994

CONFERENCE TALKS AND WORKSHOPS

- **Physics of the Universe Summit 2019:** Aspen Center for Physics, Caltech, Jan. 2019
- **LISA Astrophysics Working Group Workshop:** Paris, France. Dec. 2018
- **WE-Heraeus Symposium:** *Potential BSM Implications of the H_o Controversy,* Berlin, Germany. Nov. 2018
- **2018 Falling Walls Conference,** *H_o Controversy and Models of the Universe*, Berlin, Germany. Nov. 2018
- **Colloquium APC:** *Darkly Charge Dark Matter,* Paris, France. Nov. 2018
- **Institut Henri Poincaré - Analytics, Inference, and Computation in Cosmology:** *Self Charged Dark Matter,* Paris, France. Sep. 2018
- **CCA Flatiron:** *Triple Systems and Gravity Waves,* Simons Foundation, New York City, NY. Aug. 2018
- **12th International LISA Symposium,** Chicago, IL. Jul. 2018
- **Gravity, Cosmology & Physics Beyond the Standard Model,** Paris, France. Jun. 2018
- **Feynman 100 Celebration:** *Dark Matter and the Dinosaurs*, Caltech, Pasadena, CA. May. 2018
- **The Center for Theoretical Physics: The First 50 Years | CTP 50:** Dark Matter, MIT, Cambridge, MA. Mar. 2018
- **Pacific 2018,** Raitae, Tahiti. Feb. 2018
- **YKIS Symposium,** Kyoto, Japan. Feb. 2018
- **Israel Physical Society Annual Conference:** *Dark Matter and the Dinosaurs,* Israel Institute of Technology, Haifa, Israel. Dec. 2017
- **I-Core Meeting:** *Perspectives,* Israeli Centers of Research Excellence The Quantum Universe, Haifa, Israel, Dec. 2017
- **Israel Physical Society Annual Conference:** *Public Lecture,* Israeli Institute of Technology, Haifa, Israel, Dec. 2017

- **Gordon Research Conference- String Theory & Cosmology,** *Darkly-Charged Dark Matter***,** Renaissance Tuscany II Ciocco, Lucca (Barga), Italy. May 2017
- **Physics of the Universe Summit 2017:** Aspen Center for Physics, Caltech, Jan. 2017
- **CosPA 2016 (13th International Symposium on Cosmology and Particle Astrophysics):** *Darkly-Charged Dark Matter*, University of Sydney, Sydney, Australia. Dec. 2016
- **Nordita:** Dark Matter Distribution in the Era of Gaia, Stockholm, Sweden. Oct. 2016
- **2016 Berkeley Center for Theoretical Physics Tahoe Summit:** *New Ideas About Dark Matter*, University of California, Glenbrook, Nevada. June. 2016.
- **New Physics at Korea Institute Workshop:** Particle Astrophysics and Cosmology Including Fundamental Interactions *Dark Matter*, Korea University, Seoul, Korea. Sept. 2015
- **Pacific 2015:** Particle Astrophysics and Cosmology Including Fundamental Interactions *Dark Matter*, Moorea, Sept. 2015
- **MIAPP/Munchner Physik-Kolloquium:** *Double Disk Dark Matter*, Munich Institute for Astro- and Particle Physics, Munich, Germany. Jul. 2015.
- **Invisibles 15 Workshop:** Invisibles Meets Visibles *Outreach: Art & Science,* Instituto de Fisica Teorica, Madrid, Spain. Jun. 2015.
- **NORDITA 2015:** *Spacetime Odyssey Continues Theoretical Cosmology in the 21st Century,* Nordic Institute for Theoretical Physics, Piperska Muren, Stockholm, Sweden, Jun. 2015
- **Future Prospects for Fundamental Particle Physics and Cosmology Workshop:** *Double Disk Dark Matter,* Stony Brook, NY, May. 2015
- **Alpha Magnetic Spectrometer (AMS) Days at Cern:** *The Future of Cosmic Ray Physics and Latest Results, Indirect Detection: Enhanced Density Models and Antideuteron Searches,* Zurich, Apr. 2015
- **CERN:** Exploring the Physics Frontier with Circular Colliders, *Dark Matter* Aspen Center for Physics, Denver CO. Jan. 2015.
- **Australian Institute of Physics Conference 2014:** The Art of Physics, *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and Modern World,* Canberra, Australia, Dec. 2014.

- **16th Global Edition of the Women In Leadership (WIL) Economic Forum 2014:** Gender Parity, Women's Empowerment, Diversity and Inclusion. *How Women in STEM Fields Can Thrive*, Dubai, UAE, Nov. 2014.
- **Naturalness 2014:** Weizmann Institute of Science, *How Natural is Dark Matter,* Tel Aviv, Israel, Nov. 2014.
- **Fine-tuning, Anthropics, and the String Landscape:** *Double Disk Dark Matter,* Instituto de Fisica Teorica UAM-CSIC, Madrid, Spain, Oct. 2014.
- **Les Invisibles 14 Workshop:** *Double Disk Dark Matter*, Paris, France, Oct. 2014
- **Sackler 2014:** The Eighth Harvard-Smithsonian Conference on Theoretical Astrophysics – Debates on the Nature of Dark Mater. *Multi-Component Dark Matter,* Cambridge, MA, May 2014.
- **Fifth Workshop on Theory:** Phenomenoly and Experiments in Flavour Physics 2014, Capri, Italy, May 2014.
- **International Conference on New Frontiers in Physics (ICNFP) 2013:** *What is Dark Matter?* Kolymbari, Crete, Greece, Aug. 2013
- **Harvard University Self-Interacting Dark Matter Workshop:** *Double-Disk Dark Matter, Cambridge*, MA, Aug. 2013
- **Galileo Galilei Institute for Theoretical Physics:** *Double Disk Dark Matter,* Arcetri, Florence, Jul. 2013
- **Preskill Conference:** *Holographically Dual Effective Field Theories with Broken Conformal Symmetry,* California Institute of Technology, Mar. 2013
- **Aspen Winter Conference:** Aspen Center for Physics: Higgs Quo Vadis, *Post Higgs Era,* Aspen, CO, Mar. 2013
- **N=4 Conference:** California Institute of Technology, Mar. 2012
- **Rencontres de Moriond Electroweak:** La Thuile, Italy, Mar. 2012
- **Aspen Winter Conference:** *Knocking on Heaven's Door: How Physics and Scientific Thinking Illuminate the Universe and the Modern World,* Aspen, CO, Feb. 2012
- **Dark Matter 2012:** UCLA, Feb. 2012
- **Galileo Galilei Institute:** Nov. 2011
- **CERN:** Nov. 2011
- **Solvay Institute:** Brussels, Belgium, Oct. 2011
- **Forstmann Little Aspen Conference:** Sept. 2011
- **Ars Electronica:** Linz, Austria, Sept. 2011

- **Kavli Institute for Theoretical Physics:** Aug. 2011
- **Shanghai Particle Physics and Cosmology Symposium (SPCS):** Shanghai Jiaotong University, Jun. 2011
- **Tsinghua University:** Beijing, China, Jun. 2011
- **Aspen Winter 2011 Conference:** *Indirect and Direct Detection of Dark Matter*, Aspen Center for Physics, Feb. 2011
- **Aspen Winter 2011 Conference:** *New Data from the Energy Frontier*, Aspen Center for Physics, Feb. 2011
- **Physics of the Universe Summit 2011:** Aspen Center for Physics, Caltech, Jan. 2011
- **PCTS Dark Matter Workshop:** *Direct Detection and Theoretical Developments*, Princeton, NJ, Nov. 2010
- **Aspen Summer Conference on Particle Physics:** Aspen Center for Physics, Jul. 2010
- **Planck Conference:** CERN, Zurich, Switzerland, Jun. 2010
- **Physics of the Universe Summit:** Opening Speaker, Space-X and Caltech, Jan. 2010
- **Aspen Winter Conference:** *Particle Physics,* Aspen Center for Physics, Jan. 2010
- **2009 Presidents' Circle of the National Academy of Sciences, Lunch Talk:** *Frontiers of Physics*, Nov. 2009
- **2009 Radcliffe Institute Symposium:** *Celebrate 10 Years! Crossing Boundaries at the Radcliffe Institute,* Oct. 2009
- **An Evening of Hope and Good Fortune with Jennifer 8. Lee (Harvard '99):** New York Times journalist and author read from her book *The Fortune Cookie Chronicles*, sponsored by Harvard University and the Harvard School of Public Health, Cambridge, MA, Aug. 2009
- **SUSY '09:** 17th International Conference on Supersymmetry and the Unification of Fundamental Interactions, Boston, MA, Jun. 2009
- **Planck 2009:** *From the Planck Scale to the ElectroWeak Scale,* Padova, Italy, May 2009
- **2009 National Academy of Sciences Annual Meeting:** *Particle Physics and Cosmology with Extra Dimensions,* Washington, D.C., Apr. 2009
- **Radcliffe Institute for Advanced Study:** *Searching for Dark Matter: A Unified Approach,* Harvard University, Cambridge, MA, Feb. 2009
- **SnowPAC 2009:** Workshop on Particle Astrophysics, Astronomy & Cosmology, Snowbird, UT, Feb. 2009

- **Aspen Winter Conference:** *Particle Physics*, Aspen, CO, Jan. 2009
- **2008 Brookhaven Forum (BF2008):** *Terra Incognita: From LHC to Cosmology,* Brookhaven National Laboratory, Long Island, NY, Nov. 2008
- **National Academy of Science Symposium:** The Science & Entertainment Exchange, Los Angeles, CA, Nov. 2008
- **International Meeting:** New Frontiers of Science, Art and Thought, Barcelona, Spain, Oct. 2008
- **Institut d'été 2008:** *Theories de Jauge, Gravite et Theorie de Cordes,* Centre de Physique Theorique de l'École Polytechnique, Paris, France, Aug. 2008
- **Kavli Institute for Theoretical Physics (KITP):** Anticipating Physics at the LHC, Santa Barbara, CA, Jun. 2008
- **CERN Academic Training Lectures:** CERN, Geneva, Switzerland, Mar. 2008
- **XLIII Rencontres de Moriond Electroweak Session:** La Thuile, Italy, Mar. 2008
- **LHC New Physics Signatures Workshop:** University of Michigan, Ann Arbor, MI, Jan. 2008
- **ISCAP Northeast String Cosmology Meeting:** New York Academy of Sciences, NY, Dec. 2007
- **Berkeley Center for Theoretical Physics' Opening Symposium:** UC Berkeley, CA, Oct. 2007
- **Ettore Majorana Foundation and Centre for Scientific Culture:** International School of Subnuclear Physics, Erice, Italy, Sept. 2007
- **New Physics and the LHC:** BSM CERN TH Institute, Geneva, Switzerland, Sept. 2007
- **Eötvös-Cornell 2007:** Beyond the Standard Model: Budapest, Hungary, Jun. 2007
- **Theoretical Advanced Studies Institute (TASI):** University of Colorado, Boulder, Jun. 2007. (video and slides)
- **CERN-Argentina Workshop:** Universidad Nacional de la Plata, Buenos Aires, Argentina, May 2007
- **Kane Symposium:** Michigan Center for Theoretical Physics, University of Michigan, Ann Arbor, MI, Jan. 2007
- **Winter Physics Lectures Series 2007:** Aspen Center for Physics, Aspen, CO, Jan. 2007
- **Kavli Institute for Theoretical Physics Public Lecture Series:** UC Santa Barbara, CA, Tuesday, Dec. 2006

- **COSMO 06:** International Workshop on Particle Physics, Tahoe City, CA, Sept. 2006
- **Second World Conference on the Future of Science:** Fondazione Giorgio Cini, Venice, Italy, Sept. 2006
- **Kavli Institute for Theoretical Physics:** String Phenomenology 2006: Braneworld Black Holes, Santa Barbara, CA, Sept. 2006
- **International Congress of Mathematical Physics (ICMP 2006):** Rio de Janeiro, Brazil, Aug. 2006
- **Second World Summit:** Physics Beyond the Standard Model, Galapagos Islands, Ecuador, Jun. 2006
- **New Views of the Universe Inaugural Symposium:** The Kavli Institute, Chicago, IL, Dec. 2005
- **XXIII Solvay Conference in Physics:** Solvay Institute, Brussels, Belgium, Dec. 2005
- **100th Anniversary of Einstein's Theory of Relativity:** University of CA, Santa Cruz, CA, Nov. 2005
- **String Theory:** Benasque Center for Science, Benasque, Spain, Jul. 2005
- **YKIS2005:** Yukawa Institute for Theoretical Physics, Kyoto University, Japan, Jun. 2005
- **The 59th Yamada Conference:** The University of Tokyo, Japan, Jun. 2005
- **Planck '05:** Abdus Salam International Center for Theoretical Physics, May 2005
- **PIPT Showcase Conference:** Pacific Institute for Theoretical Physics, May 2005
- **Algebraic Geometry Women's Conference:** University of Pennsylvania, May 2005
- **Welsh Lectures:** University of Toronto, Canada, Apr. 2005
- **International Conference on Theoretical Physics:** Lebedev Institute, Moscow, Russia, Apr. 2005
- **String Phenomenology:** Perimeter, Waterloo, Ontario, Mar. 2005
- **Interdisciplinary Conference at the Einstein Forum:** Berlin, Germany, Jan. 2005
- **Theoretical Science in the Mathematical and Physical Sciences:** National Science Foundation, Washington, D.C., Oct. 2004
- **The Future of Physics panel discussion:** KITP, Santa Barbara, Beyond the Standard Model, Oct. 2004

- **New Horizons in String Cosmology:** Banff, Alberta, Jun. 2004
- **Rencontres de Moriond Electroweak Interactions and Unified Theories:** La Thuile, Italy, Mar. 2004
- **Kavli Institute for Theoretical Physics:** Superstring Cosmology, UC-Santa Barbara, Oct. 2003
- **Chair:** Radcliffe Institute Cosmology and Theoretical Astrophysics Cluster, Spring 2003
- **Cosmic Inflation:** UC-Davis, Mar. 2003
- **AAAS Annual Meeting:** Denver, Feb. 2003
- **Carnegie Observatories Centennial Symposium:** Measuring and Modeling the Universe, Pasadena, Nov. 2002
- **Challenges to the Standard Paradigm:** Fundamental Physics and Cosmology, Irvine, CA, Nov. 2002
- **Radcliffe Institute Fellow:** Fall 2002
- **Cosmo-02:** International Workshop on Particle Physics and the Early Universe, Chicago, IL, Sept. 2002
- **TH-02:** International Conference on Theoretical Physics, Paris, UNESCO, Jul. 2002
- **Strings 2002:** Cambridge, UK, Jul. 2002
- **SUSY '02:** Tenth International Conference on Supersymmetry and Unification of Fundamental Interactions, Hamburg, Jun. 2002
- **PIMS Pacific Northwest String Seminar:** University of British Columbia, Mar. 2002
- **Science & Ultimate Reality:** Celebrating the Vision of John Archibald Wheeler, invited talk and book chapter contribution, Feb. 2002
- **ITP Miniprogram on Brane World:** UC-Santa Barbara, Jan. 2002
- **Aspen Winter Conference on Particle Physics:** Aspen, CO, Jan. 2002
- **Madrid Christmas Conference:** on Particle Physics, Dec. 2001
- **Gender and Research Conference:** Brussels, Nov. 2001
- **Plenary Address:** in the Gravity Research Foundation session of the 16th Conference of the International Society of General Relativity and Gravitation, Durban, South Africa, Jul. 2001
- **Rapporteur on Extra Dimensions:** Lepton Photon '01, Rome, Italy, Jul. 2001
- **Rapporteur on Extra Dimensions:** Fermilab Users' Meeting 2001, Batavia, IL, Jun. 2001
- **Superstrings and Cosmology CIAR Cosmology and Gravitation Programme Annual Meeting 2001:** Banff, Alberta, Feb. 2001

- **AAAS Meeting Topical Lecturer:** San Francisco, Feb. 2001
- **Participant in MIT Meeting:** on Gender Equity in Science and Engineering, Jan. 2001
- **Aspen Winter Conference:** on Particle Physics, Aspen, CO, Jan. 2001
- **Santa Barbara Institute:** for Theoretical Physics Advisory Board, 2001
- **Rutherford Christmas Meeting:** Rutherford, England, Dec. 2000
- **IV Escuela Mexicana de Gravitacion y Fisica Matematica:** Huatulco, Oaxaca, Mexico, Dec. 2000
- **Quantum Fields and Strings:** Kolymbari, Crete, Greece, Sept. 2000
- **Aspen Workshop:** on String Theory, Aug. 2000
- **Strings 2000:** Ann Arbor, MI, Jul. 2000
- **Abdus Salam International Center for Theoretical Physics (ICTP) and Italian Institute for Nuclear Theory (INFN):** Beyond Four Dimensions, Trieste, Italy, Jul. 2000
- **SUSY '00:** Eighth International Conference on Supersymmetries in Physics, CERN, Geneva, Switzerland, Jul. 2000
- **Aspen Winter Conference:** on Particle Physics, Aspen, CO, Jan. 2000
- **Caltech/USC Center for Theoretical Physics:** String Theory at the Millennium, Caltech, Pasadena, Jan. 2000.
- **Santa Barbara Institute:** for Theoretical Physics Advisory Board, 2000
- **EC Summer School Connecting Fundamental Physics and Cosmology:** Lecturer, Cambridge, Aug. 1999
- **2nd Amsterdam Workshop:** on String Theory, Jul. 1999
- **Aspen Supersymmetry Summer Workshop:** Jul. 1999
- **SUSY '99:** Seventh International Conference on Supersymmetries in Physics, Fermilab, IL, Jun. 1999
- **New Ideas in Particle Physics and Cosmology:** Philadelphia, PA, May 1999
- **Aspen Winter Conference:** Advances in Particle Physics, Jan. 1999
- **Santa Barbara Institute:** for Theoretical Physics Advisory Board, 1999
- **Physics at Run II:** Workshop on Supersymmetry/Higgs, Summary Meeting, Fermi National Accelerator Laboratory, Nov. 1998
- **Sante Fe Workshop:** Perturbative and Nonperturbative Aspects of the Standard Model, Aug. 1998
- **SUSY '98:** Sixth International Conference on Supersymmetries in Physics, Oxford, England, Jul. 1998

- **Continuous Advances in QCD:** Minneapolis, MN, Apr. 1998
- **PASCOS 98:** Northeastern University, Boston, MA, Mar. 1998
- **CERN:** Associate, Jan.–Apr. 1998
- **Santa Barbara Institute:** for Theoretical Physics Advisory Board, 1998
- **Lecturer at the Theoretical Advanced Study Institute (TASI):** Boulder, CO, Jul. 1997
- **SUSY '97:** Fifth International Conference on Supersymmetries in Physics, Philadelphia, PA, Summary Session Speaker, Jun. 1997
- **Research Workshop:** of the Israel Science Foundation on Dynamical Supersymmetry Breaking, Department of Particle Physics at the Weizmann Institute of Science, Israel, Apr. 1997
- **Rencontres de Moriond:** Electroweak Session, Mar. 1997
- **Strongly Coupled Gauge Theories:** Supersymmetry Breaking, Nagoya, Japan, Nov. 1996
- **Aspen Center for Physics:** Flavor and Gauge Hierarchy Problems, Jul. 1996
- **SUSY '96:** Fourth International Conference on Supersymmetries in Physics, College Park, MD: Dynamical Supersymmetry Breaking, Jun. 1996
- **Standard Model and Beyond:** Tbilisi, Georgia, Jun. 1996
- **Rutgers University:** Jun. 1996
- **Lecturer at KOSEF-JSPS Winter School:** Recent Developments in Particle and Nuclear Theory, Seoul, Korea, Feb. 1996
- **Rutgers University:** Jan. 1996
- **ITP Conference on Unification:** From the Weak Scale to the Planck Scale, Institute for Theoretical Physics, Santa Barbara, Sept. 1995
- **Aspen Center for Physics:** Weak Interactions, Inflation, Aug. 1995
- **CERN:** Jun. 1995
- **SUSY '95:** International Workshop on Supersymmetry and Unification of Fundamental Interactions, École Polytechnique, Paliseau, France, May 1995
- **PASCOS Symposium:** Johns Hopkins University (Joint Meeting of the International Symposium on Particles, Strings, and Cosmology), Baltimore, MD, Mar. 1995
- **Joint US-Polish Workshop:** Physics from the Planck to the Electroweak Scale, Warsaw, Poland, Sept. 1994
- **Aspen Center for Physics:** Supersymmetry, Aug. 1994

- **Santa Barbara Institute for Theoretical Physics:** Weak Interactions, Santa Barbara, Apr. 1994
- **Rencontres de Moriond:** Electroweak Session, Mar. 1994
- **Institute for Theoretical Physics:** Santa Barbara, Feb.–Jun. 1994
- **WHEPP-3 Phenomenology Workshop:** Madras, India, Jan. 1994
- **Rutgers University:** May 1993
- **Rencontres de Moriond:** Electroweak Session, Mar. 1993
- **CERN:** Jan.– Jul. 1993
- **1993 Aspen Winter Conference**: on Elementary Particle Physics, Jan. 1993
- **Colliding Beam Conference:** Yale University, Oct. 1992
- **Aspen Center for Physics:** Summer 1992
- **Topical Workshop on Nonperturbative Aspects of Chiral Gauge Theories:** University of Rome, Italy, Mar. 1992
- **Santa Barbara Institute for Theoretical Physics:** Lattice, 1992
- **Workshop on Photons Radiated from Quarks:** Annecy, France, Dec. 1991
- **1991 Aspen Winter Conference:** on Elementary Particle Physics, Jan. 1991
- **Aspen Center for Physics:** Summer 1990
- **Santa Barbara Institute for Theoretical Physics:** Physics, Weak Interactions, 1990
- **Twelfth International Workshop on Weak Interactions and Neutrinos:** Ginosar, Israel, Apr. 1989
- **Snowmass Workshop:** on High Energy Physics, Jul. 1988
- **Aspen Center for Physics:** Summer 1988
- **Workshop on Experiments:** Detectors and Experimental Areas for the Supercomputing Supercollider, Lawrence Berkeley Laboratory, Jul. 1987
- **Quarks:** The Third Generation; Top and Bottom Quarks and Weak

COLLOQUIA

- **Max Planck Institute for Gravitational Physics,** Dec. 2018
- **University of Notre Dame,** Sept. 2017
- **University of Vienna,** May. 2017
- **University of Barcelona,** Jan. 2017

- **University of Pittsburgh**, Oct. 2016
- **New York University**, Feb. 2016
- **York University**, Dec. 2015
- **Ludwig Maximilian University**, Munich, Jul. 2015
- **University of Chicago**, Apr. 2015
- **University of California,** Santa Barbara, Jun. 2013
- **Caltech**, Jun. 2013
- **Cornell University**, May 2012
- **University of California**, Davis, Apr. 2012
- **University of California**, Berkeley, Apr. 2012
- **University of California**, Berkeley, Mar. 2012
- **University of Colorado**, Boulder, Feb. 2012
- **CERN**, Jan. 2012
- **Universidad Autónoma**, Madrid, Apr. 2011
- **Boston University**, Feb. 2010
- **UCLA**, Apr. 2009
- **Rockefeller University**, Nov. 2008
- **Fermilab Chicago**, Oct. 2008
- **University of California**, San Diego, May 2008
- **Caltech**, Apr. 2008
- **The Michigan Center for Theoretical Physics**, Jan. 2008
- **University of California**, Berkeley, Oct. 2007
- **Harvard University**, Oct. 2007
- **Indiana University**, Mar. 2007
- **University of Chicago**, Oct. 2006
- **Perimeter Institute Colloquium**, Mar. 2006
- **Fermilab Colloquium**, Feb. 2006
- **CERN**, Jan. 2006
- **University of California**, Davis, Dec. 2005
- **University of California**, Santa Cruz, Nov. 2005
- **Yale University**, 2004
- **Duke University**, Triangle Nuclear Theory Group, 2002
- **Columbia University**, 2002
- **Princeton University**, 2001
- **Fermilab**, 2001
- **University of Chicago**, 2000
- **Brandeis University**, 2000
- **University of California**, Santa Cruz, 1999

- **University of California**, Santa Barbara, 1999
- **Caltech**, 1997
- **Harvard University**, 1996, 2000, 2001
- **MIT**, 1996, 1999
- **Case Western Reserve**, 1996, 1998
- **Northwestern University**, 1996
- **New York University**, 1995, 2001, 2004
- **University of Illinois**, Urbana-Champaign, 1993

ARTS ACTIVITIES

OPERA ***Hypermusic Prologue: A Projective Opera in Seven Planes***
Music by Hèctor Parra, Libretto by Lisa Randall, Stage Design by Matthew Ritchie

CD RECORDING ***Hypermusic Prologue: A Projective Opera in Seven Planes,*** © & ℗ 2010 Kairos Production. Co-production IRCAM-Centre Pompidou, Ensemble InterContemporian. Made in Germany.

PERFORMANCES

- **Gare du Nord, Bahnhof fur Neue Musik,** Basel, Switzerland, Oct. 1617, 2013.
- **Sopiensaele,** Berlin, Germany, Oct. 04–06, 2013.
- **Guggenheim Museum** (excerpts), Spiral Hall, New York, Mar. 11, 2010.
- **Kaaitheater,** Ars Musica 2010, Brussels, Belgium, Mar. 04, 2010.
- **Longy School of Music** (excerpts), Cambridge, MA, Feb. 27, 2010.
- **Philharmonie Luxembourg,** Luxembourg, Dec. 06, 2009.
- **Barcelona Opera House,** El Liceu, Salle Foyer, Nov. 27–28, 2009.
- **Centre Pompidou, Festival Agora 2009,** Grande Salle, Paris, France, Jun. 14–15, 2009.

ARTS RADIO AND TELEVISION

- **France Musique:** *Le Magazine de la Contemporaine*. *Hypermusic Prologue–Plane I*. Feb. 28, 2011.
- **Radio Beethoven**, Siglo XX (Chile): *Hypermusic Prologue*. Feb. 15, 2011.
- **Schweizer Radio** DRS 2 (Switzerland): *Hypermusic Prologue*. Oct. 13, 2010.
- **Radio Beethoven**, Siglo XX (Chile): *Hypermusic Prologue*. Jun. 04, 2010.
- **Artlog:** *Why Does Art Matter Now?* Profile of Whitney Museum of American Art moderated by historian and filmmaker Peter Galison, with artist Vik Muniz, physicist Lisa Randall, pollster of fivethirtyeight.com Nate Silver, and choreographer Elizabeth Streb, Jun. 18, 2009.
- **Radio France:** *Le Festival Agora en Vidéo*, Jun. 15, 2009.
- **Televisió de Catalunya:** *Art i Ciència en une Òpera*, Jun. 14, 2009.
- **Radio France:** *Les Arts Peuvent-ils Exprimer la Complexité de la Science?,* by Michael Alberganti, Jun. 12, 2009.

ART EXHIBITS *Measure for Measure,* (co-curated)

- Carpenter Center, Harvard University, Nov. 2011
- Chapman University at Guggenheim Gallery, Mar. 2011
- Gallery 825 with Los Angeles Art Association, Sept. 2010

SELECTED ART REVIEWS

- "Hypermusic Prologue: Alice im Branenland," (Basel performance review), *Codex Flores,* Oct. 19, 2013.
- Jenny Berg, "Wochenstopp: Hypermusic im Gare du Nord," (Basel performance review), *Tages Woche,* Oct. 10, 2013.
- Peter Uehling, "Hypermusic Prologue jetzt als Oper," (Berlin performance review), *Berliner Zeitung,* Oct. 08, 2013.
- Cate McQuaid, "Nakadate Videos Enthrall and Sadden: Exhibit Showcases the Discomforts of Intimacy," (Carpenter Center exhibit review), *Boston Globe,* Dec. 07, 2011.

- Natalie T. Chang, "Portrait of an Artist: Lisa Randall '84," (Carpenter Center exhibit review), *The Harvard Crimson,* Nov. 01, 2011.
- Mark Sealey, "CD Review: Hèctor Parra: *Hypermusic Prologue*," *ClassicalNet,* Jun. 2010.
- Matthew C. Stone, "Opera Boldly Goes to Uncharted Dimension," (New College Theatre, Hypermusic creative process), *The Harvard Crimson,* Mar. 02, 2010.
- Calla Cofield, "Gallery: *Hypermusic Prologue,Symmetry: Dimensions of Particle Physics,* Dec. 2009.
- Jennifer Ouellette, "Warped Opera," (general review of Hypermusic), *Discovery Channel Online,* Aug. 24, 2009.

ARTS PRESS and REVIEWS

- **The Harvard Undergraduate Research Journal:** "*From Cupcakes to the Large Hadron Collider: Lisa Randall and the Concept of Scale*," by Julia Pian, Apr. 01, 2012.
- **Boston Globe:** "*Nakadate Videos Enthrall and Sadden: Exhibit Showcases the Discomforts of Intimacy*," by Cate McQuaid, Dec. 07, 2011.
- **Harvard Gazette:** "*Scaling Up, and Down: Physicist, Artists Team Up for Offbeat Carpenter Center Show*," Nov. 18, 2011.
- **The Harvard Crimson:** "*Portrait of an Artist: Lisa Randall '84,"* by Natalie T. Chang, Nov. 01, 2011.
- **Opernwelt**: (Germany), "*Zeitgenössische Kammeropern spanischer Komponisten: Hèctor Parras «Hypermusic Prologue» und Elena Mendozas «Niebla»,"* by Albrecht Thiemann, Aug. 2011.
- **Thomas' Music:** "*Hector Parra Hypermusic Prologue 2cd,"* by Chris Dench, Jul. 2011.
- **Audiophile Audition:** *Classical CD Reviews*, by Daniel Coombs, Aug. 2010.
- **Neue Musikzeitung**: (Germany), "*Liebesduette in Imaginären Räumen*," by Max Nyffeler, Jul. 2010.
- **ClassicalNet:** "*CD Review: Hector Parra: Hypermusic Prologue*," by Mark Sealey, Jun. 2010.
- **Records International:** "*CD Description: Hypermusic Prologue,"* Jun. 2010.

- **Göteborgs-Posten:** "*Hector Parra, Hypermusic Prologue: Musik från Labbet*," by Magnus Haglund, Jun. 01, 2010.
- **allmusic.com:** "*Hypermusic Prologue*," by Stephen Eddins, May 2010.
- **Scientific American Observations:** "*Toying with the Laws of Physics: Elizabeth Streb's Latest Dance Performance,"* by George Musser, Apr. 27, 2010.
- **Diverdi.com:** "*Hèctor Parra, Hypermusic Prologue*," by José Luis Téllez, Apr. 05, 2010.
- **New Scientist:** "*Sounds From Another Dimension*," by Amanda Getter, Mar. 17, 2010.
- **Financial Times:** *"Hypermusic: Ascension, Guggenheim Museum, New York," panel discussion with Hector Parra and Matthew Ritchie, by Martin Bernheimer,* Mar. 15, 2010.
- **Docenotas.com:** "*Hypermusic Prologue de Hector Parra abre el Festival Ars Musica de Bruselas*," Mar. 05, 2010.
- **The Harvard Crimson:** "*Opera Boldly Goes to Uncharted Dimension*," by Matthew C. Stone, Mar. 02, 2010.
- **The Art Newspaper:** Solomon R. Guggenheim Museum: "*Contemplating the Void: Interventions in the Guggenheim Museum Rotunda,"* Feb. 09, 2010.
- **Guggenheim Press:** "The Guggenheim Presents '*Contemplating the Void,*' " BWW News Desk, Feb. 08, 2010.
- **SUNfiltered:** "*How Things Work: Artists in Conversation at the Guggenheim,"* by Perrin Drumm, Dec. 30, 2009.
- **Luxweb: Le Portail Internet du Luxembourg:** *Hypermusic Prologue*, Dec. 02, 2009.
- **El Mundo:** "*Ciencia, Arte y Filosofía*," by Albert Vilardell, Dec. 02, 2009.
- **El País:** "*Entrevista: Lisa Randall, Física Teórica de la Universidad de Harvard: 'Extraña ver la Quinta Dimensión en una Ópera*,' " by Joan Carles Ambrojo, Dec. 02, 2009.
- **Symmetry: Dimensions of Particle Physics:** "*Gallery: Hypermusic Prologue,"* by Calla Cofield, Dec. 2009.
- **Cose Iberiche:** "*La Prima Spagnola di Hypermusic Prologue, Nell'incontro tra la Lirica e la String Theory il Desiderio Umano del Continuo Superarsi,"* by Da Laura, Nov. 30, 2009.
- **ABC Spain:** "*Física y Música*," by Pablo Meléndez-Haddad, Nov. 29, 2009.

- **Avui,** "*Òpera de Ciències*," by Xavier Cester, Nov. 29, 2009.
- **El Periódico:** "*Una Cálida Acogida a Hèctor Parra en el Liceu*," by César López Rosell, Nov. 29, 2009.
- **La Vanguardia:** "*La Necesaria Gravitación*," by Jorge de Persia, Nov. 29, 2009.
- **El País:** "*La Dimensión Oculta de la Ópera: Hèctor Parra Estrena en el Liceo Hypermusic Prologue*," by Agustí Fancelli, Nov. 28, 2009.
- **Particosmo Blogspot:** "*Hypermusic Prologue in Spain*," Nov. 28, 2009.
- **El Cultural:** "*Héctor Parra: en Hypermusic Prologue Todo es Riesgo*," by Benjamín G. Rosado, Nov. 27, 2009.
- **El País:** "*El Liceo Entra en la Quinta Dimensión con Hypermusic Prologue*," by L. Morgades, Nov. 27, 2009.
- **El Periódico:** "*El Liceu Propone un Dialogo Entre Música, Ciencia y Arte,"* by Manel Cereijo, Nov. 27, 2009.
- **La Vanguardia:** "*Hèctor Parra Lleva la Ópera a la Quinta Dimensión en el Liceu*," by Justo Barranco, Nov. 27, 2009. **ABC Spain:** "*Estreno Contemporáneo en el Liceu*," by P.M.-H., Nov. 26, 2009.
- **Avui:** "*La Ciència Insipira una Nova Òpera: Hèctor Parra Estrena al Foyer del Liceu L'obra Hypermusic Prologue*," by Marta Porter, Nov. 25, 2009.
- **El Mundo:** "*Viaje a la Quinta Dimensión a Través de una Opera*," by Ana María Dávila, Nov. 25, 2009.
- **Teatralnet: Revista Digital d'Arts Escéniques:** "*Ciència, Música, i Noves Realitats al Liceu,"* by Mercè Pérez, Nov. 25, 2009.
- **Opera Actual:** "*Hypermusic Prologue de Héctor Parra en el Liceu: Música de Otra Galaxia*," Nov. 04, 2009.
- **L'Étincelle: Le journal de la création à l'Ircam:** "*Une Bonne Musique Plutôt qu'un Discours Vain: Entretien avec Lisa Randall,"* by Jeremie Szpirglas, Nov. 2009.
- **Revista Musical:** "*Hypermusic Prologue o un Concepte nou del Gènere Operístic*," al Foyer, by J. Comellas, Nov. 2009.
- **Audioclásica:** "*Agora Hispano,"* by José Luis Besada Portas, Sept. 2009.
- **Discovery Channel Online:** "*Warped Opera,"* by Jennifer Ouellette, Aug. 24, 2009.
- **Physics Central:** "*Physics and Opera: A Happier Marriage Than You Might Guess*," Aug. 24, 2009.

- **Jutarnji:** "*Njezin Libreto Otkriva Mnoge Tajne Svemira*," by T. Rudez, Aug. 20, 2009.
- **Dwutygodnik Ruch Muzyczny:** "*Festiwal 'Agora,'* " Aug. 19, 2009.
- **Seed Magazine:** "*Opera in the Fifth Dimension: in Hypermusic Prologue, Physicist Lisa Randall Re-Imagines Her Extradimensional Theories of the Universe as Opera*," by Elizabeth Cline, Aug. 10, 2009.
- **Seed Magazine:** "*Opera in the Fifth Dimension: Slideshow*," by Elizabeth Cline, Aug. 10, 2009.
- **Nature:** "*Solo Journey to a Fifth Dimension,"* by Stefan Michalowski and Georgia Smith, Jul. 09, 2009.
- **The Parisian:** "*Hypermusic Prologue: A Projective Opera in Seven Planes*," Jul. 06, 2009.
- **Resmusica:** "*Festival Agora,"* by Frank Langlois, Jul. 03, 2009.
- **L'Humanité:** "*Science, Cuisine et Amours,"* by Maurice Ulrich, Jun. 30, 2009.
- **Particosmo Blogspot:** "*Parra - Hypermusic Prologue*," Jun. 25, 2009.
- **Dailymotion:** "*Hypermusic Prologue-Hector Parra-EIC*," Jun. 18, 2009.
- **Références Musicologie:** "*La Rencontre d'un Compositeur Espagnol et D'une Physicienne Américaine,"* Jun. 16, 2009.
- **Le Monde:** "*Musique de Chambre pour Particules Élémentaires*," by Pierre Gervasoni, Jun. 15, 2009.
- **Anaclase.com:** "*Hypermusic Prologue, Opéra de Hèctor Parra*," by Jeremie Szpirglas, Jun. 15, 2009.
- **Scherzo:** "*Ópera y Ciencia*," by Bruno Serrou, Jun. 15, 2009.
- **La Vanguardia:** "*Estreno en París de una Ópera Sobre Física: El Autor de la Obra es el Músico Barcelonés Hèctor Parra*," by Óscar Caballero, Jun. 14, 2009.
- **Harvard Gazette:** "*Physics for Musical Masses: Theoretical Physicist Lisa Randall Pens Other-dimensional Opera*," by Alvin Powell, Jun. 11, 2009.
- **Doce Notas:** "*Presencia Española en el Agora de París,"* Jun. 08, 2009.
- **Le Monde:** "*Agora, le Plaisir de se Perdre*," by Pierre Gervasoni, Jun. 08, 2009.
- **El País:** "*La Búsqueda de Nuevas Energías Sonoras*," by Javier Pérez Senz, Jun. 06, 2009.
- **L'Humanité:** "*Contempo, Électro, ma non Troppo*," by Maurice Ulrich, Jun. 05, 2009.

- **Süddeutsche Zeitung:** "*Welterklärungsformel als Liebesgeschichte*," by Reinhard J. Brembeck, Jun. 2009.
- **Accents: la revue de l'Ensemble Intercontemporain:** "*Hypermusic, Prologue: Lisa Randall, Physicienne, Auteur du Livret,"* by Véronique Brindeau, Edition no. 38, Apr.–Aug. 2009.
- **Accents: la revue de L'Ensemble Intercontemporain:** "*Hypermusic, Prologue: Les Dimensions Cachées de la Musique, Entretien avec Hector Parra,"* by Pierre Strauch, Edition no. 38, Apr.–Aug. 2009.
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ACORD 44/2018 en relació amb el punt 8 de l'ordre del dia de la sessió del Consell de Govern de data 3 de maig de 2018: Nomenaments de doctors honoris causa en commemoració del 50è aniversari de la UAB.

Vista la proposta de l'Equip de Govern pel qual se sol·licita al Consell de Govern, en commemoració del 50è aniversari de la UAB, el nomenament de la doctora Linda Randall, del senyor Jaume Plensa Suñé, de la senyora Caddy Abduza, de la doctora Marie-Paule Kieny, i del senyor Joaquim Maria Puyal Ortiga, com a doctores i doctors honoris causa de la Universitat Autònoma de Barcelona.

Atès que tant del currículum de les candidates i dels candidats com de la documentació referent als seus mèrits i de les circumstàncies que concorren, queda acreditat que la seva activitat en el camp de la docència i de la recerca les i els fan mereixedors d'obtenir la distinció de doctor honoris causa de la Universitat Autònoma de Barcelona.

Atès que l'article 3.1.b la Normativa que regula el procediment per a l'atorgament del títol de doctor Honoris Causa aprovada pel Consell de Govern en data 26 de maig de 2004 estableix que la iniciativa per a la proposta de nomenament de doctor honoris causa por partir, excepcionalment, del rector a proposta de l'Equip de govern.

Ateses les circumstàncies excepcionals referents a la commemoració del 50è aniversari de la UAB, la rectora, a proposta de l'Equip de Govern, presenta al Consell de Govern aquesta proposta de nomenaments com a doctores i doctors honoris causa de la UAB.

Vista la conformitat del Gabinet Jurídic.

Per tot això, a la vista de les consideracions anteriors, a proposta de la rectora, el Consell de Govern ha adoptat els següents

ACORDS

Primer.- Nomenar la doctora Lisa Randall, el senyor Jaume Plensa Suñé, la senyora Caddy Abduza, la doctora Marie-Paule Kieny, i el senyor Joaquim Maria Puyal Ortiga, doctores i doctors honoris causa de la UAB.

Segon.- Encarregar a la secretària general i al vicerector de Relacions Institucionals i de Cultura l'execució i el seguiment d'aquest acord.

Bellaterra (Cerdanyola del Vallès), 3 de maig de 2018