

# Yosef Nir – Curriculum Vitae

## Employment History

(Weizmann Institute of Science = WIS)

- 2016-2021 Member of the Scientific Policy Committee (SPC) of CERN  
<http://council.web.cern.ch/council/en/SPC/SPCWelcome.html>
- 2016-2022 Member of the Scientific Advisory Board of MIAPP (Munich)  
<http://www.munich-iapp.de/>
- 2018- Member of the GGI Scientific Committee (Florence)  
<http://www.ggi.fi.infn.it/>
- 2019- Member of the Committee for Strategic Planning for Gender Fairness (Israel)
- 2021- Member of the Advisory Board of Gender for Excellence in Research (GenderEX)  
<http://genderex.eu/>
- 2013-2019 I-CORE, the Quantum Universe Center of Research Excellence: Scientific Director  
[http://www.weizmann.ac.il/icore/quantum\\_universe/](http://www.weizmann.ac.il/icore/quantum_universe/)
- 2011-2019 Member of the EPS-HEPP Board  
<https://eps-hepp.web.cern.ch/eps-hepp/index.php>
- 2017- 2021 WIS: Head of the Department of Particle Physics and Astrophysics  
<http://www.weizmann.ac.il/particle/>
- 2008-2015 WIS: Dean of Physics  
<http://www.weizmann.ac.il/pages/faculty-of-physics>
- 2005-2006 WIS: Chairperson of the Committee of Appointments and Promotions
- 1999-2000 IAS, Princeton: Member
- 1998- WIS: Full Professor
- 1994-1998 WIS: Associate Professor
- 1990-1994 WIS: Senior Researcher
- 1988-1990 SLAC, Stanford: Research Associate

## Education

- 1985-1988 WIS, Ph.D in Physics; Advisor: Haim Harari  
*Phenomenological aspects of theories beyond the Standard Model*
- 1986-1987 SLAC, Fulbright Fellow
- 1982-1985 WIS, M.Sc. in Physics; Advisor: Adam Schwimmer  
*Infrared treatment of higher anomalies*
- 1979-1982 Technion, B.Sc. in Physics

## Books

- The Mystery of the Missing Antimatter, with Helen Quinn, Princeton University Press, 2007
- The Standard Model: From Fundamental Symmetries to Experimental Tests, with Yuval Grossman, Princeton University Press (in press)
- Uri travels in space (in Hebrew), Agam Publishing (in press)
- Omer and Rom discover a supernova, Kinneret-Zmora Publishing (in press)

## Lectures in Schools

12/2022	European School of High Energy Physics (Israel): <i>Flavor and CP violation</i>
03/2022	Mini-course on flavor physics (UAM, Madrid): <i>Flavor and CP violation</i>
09/2019	RTG Fall Workshop 2019 (Freiburg): <i>Flavor and CP violation</i>
02/2019	KMI School 2019 (Nagoya): <i>CP violation</i>
09/2018	Fourth Asia-Europe-Pacific School on HEP (Vietnam): <i>Flavor Physics and CPV</i>
01/2018	Fifth Chilean School on HEP (Valparaiso): <i>The SM</i>
11/2017	Fifth Autumn School on Physics of the SM and Beyond (Tbilisi): <i>The SM</i>
06/2017	ICTP Summer School on Particle Physics (Trieste): <i>The SM and flavor</i>
11/2016	NBI course (Copenhagen): <i>Flavor Physics</i>
01/2016	3 <sup>rd</sup> GGI Lectures (Florence): <i>Flavor Physics</i>
06/2015	CERN-Fermilab HCP Summer School (CERN): <i>The Standard Model</i>
06/2015	Invisibles 15 School (Madrid): <i>Flavor Physics</i>
03/2013	CERN-CLAF School (Peru): <i>Flavor Physics</i>
08/2012	PSI ZuoZ Summer School (Switzerland): <i>Models of Flavor Physics</i>
07/2012	XXXX SLAC Summer Institute (SLAC): <i>CP Violation</i>
07/2012	1 <sup>st</sup> IAS-CERN School (NTU, Singapore): <i>CPV and Baryogenesis</i>
04/2011	Academic Training Program (CERN): <i>Flavor Physics and CPV</i>
08/2010	XXXVIII SLAC Summer Institute (SLAC): <i>Lepton Flavor</i>
07/2010	2010 Cargese Summer School (Corsica): <i>Flavor Physics</i>
07/2009	2009 Baikal Summer School (Russia): <i>Flavor Physics and CPV</i>
07/2010	International Neutrino Summer School (Fermilab): <i>Leptogenesis</i>
03/2009	CERN-CLAF School (Colombia): <i>Flavor Physics</i>
01/2009	SILAF AE 2009 (Bariloche): <i>Flavor Physics</i>
01/2009	26 <sup>th</sup> Jerusalem Winter School (HU): <i>Flavor Physics</i>
06/2008	European School of HEP (Belgium): <i>Flavor Physics and CPV</i>
02/2008	ITEP International Winter School (Moscow): <i>Flavor Physics</i>
07/2007	PiTP 2007 (IAS, Princeton): <i>Flavor Physics</i>
06/2007	2 <sup>nd</sup> Fermilab-CERN Summer School (CERN): <i>Flavor Physics</i>

08/2005 Les Houches Summer School (France): *B Physics*  
 03/2005 3<sup>rd</sup> CERN-CLAF School (Argentina): *CPV and Flavor Physics*  
 03/2004 Research Training Program (CERN): *Neutrino Physics*  
 06/2003 ISAPP 2003 (Italy): *Neutrino Physics*  
 08/2001 55<sup>th</sup> Scottish Universities Summer School (St. Andrews)  
 02/2000 Australian School of Nuclear and Particle Physics (Sydney)  
 07/1999 XXVII SLAC Summer Institute (SLAC)  
 06/1999 1999 ICTP Summer School (Trieste)  
 02/1999 1999 KIAS Particle Physics Winter School (Seoul)  
 08/1998 European School of HEP (St. Andrews)  
 07/1998 1998 Cargese Summer School (Corsica)  
 11/1997 XII Colombian School of Theoretical Physics (San Andres)  
 12/1992 Jerusalem Winter School on Neutrino Astrophysics (HU)  
 07/1992 XX SLAC Summer Institute (SLAC)  
 07/1991 TASI-91 (Boulder)

## Invited Talks

11/2022 University of Southampton: *The jewels in the crown of the LHC*  
 11/2021 WPC Symposium 2021 (DESY): *The three jewels in the crown of the LHC*  
 09/2018 1<sup>st</sup> workshop on HET and gender (CERN): *Women in Physics – why so few?*  
 06/2018 PACTS 2018 (Tallinn): *The Flavor of Higgs*  
 02/2018 Voyages BSM Workshop (French Polynesia): *Questions to the Higgs*  
 01/2018 Dortmund University: *The Flavor of Higgs*  
 04/2017 University of Crete (Heraklion): *Flavor Physics*  
 02/2017 Lake Louise Winter Institute (Canada): *Flavor Physics*  
 09/2016 NatiFest Conference (IAS, Princeton): *The taste of flavor*  
 05/2016 Higgs Tasting Workshop (Benasque): *The flavor of  $h$*   
 02/2016 Voyages BSM Workshop (Grenada):  *$h \rightarrow \tau\mu$*   
 09/2015 Niels Bohr Institute (Copenhagen):  *$h \rightarrow \tau\mu$*   
 08/2015 39<sup>th</sup> Johns Hopkins Workshop (Gothenburg): *The Flavor of Higgs*  
 05/2015 Niels Bohr Institute (Copenhagen): *The Flavor of Higgs*  
 01/2015 Zurich Phenomenology Workshop: *The Flavor of Higgs*  
 12/2014 Ben Gurion University: *The Mystery of the Missing Antimatter*  
 10/2014 X SILFAE (Medellin): *Flavor Physics*  
 10/2014 University of Hawaii: *The Flavor of Higgs*  
 10/2014 Cornell University: *The Flavor of Higgs*  
 05/2014 Planck 2014 (Paris): *The Flavor of Higgs*  
 01/2014 The top-charm frontier (CERN): *Opening talk*  
 09/2013 Brda 2013 (Slovenia): *hhh*

05/2013 Nobel Symposium (Sweden): *Flavor Physics: Past, Present, Future*  
 04/2013 Portoroz Workshop (Slovenia): *The Flavor of Higgs*  
 01/2013 The Dine-Haber Fest (UCSC): *The Flavor of Higgs*  
 06/2012 WS on Flavor Physics (Capri): *From Top to Charm and Back*  
 04/2012 LHCb WS (CERN): *From Flavor to Collider and Back*  
 04/2010 The Quinn Fest (SLAC): *Theory of CPV in B Decays*  
 05/2009 Planck 2009 (Padova): *Flavor Physics*  
 10/2008 B-Factory Symposium (SLAC): *Understanding Flavor and CPV*  
 05/2008 Neutrino 2008 (Christchurch): *Leptogenesis*  
 04/2008 WS on String Theory (HU): *Understanding flavor at the LHC*  
 01/2008 WS on LHC Physics (Valparaiso): *Understanding flavor at the LHC*  
 01/2007 LHCb WS (Edinburgh): *New Physics from flavor physics*  
 12/2006 WS on LHC Physics (Valparaiso): *Lessons from B-factories*  
 08/2006 6<sup>th</sup> Recontres du Vietnam (Hanoi): *Leptogenesis*  
 05/2006 Quarks 2006 (St. Petersburg): *New physics from B physics*  
 11/2005 WS on Flavor in the LHC Era (CERN): *New physics from B physics*  
 06/2005 Highlights of B Factories (Krakow): *New physics from B physics*  
 05/2005 IFT WS on Neutrino Physics (Madrid): *Leptogenesis*  
 08/2004 5<sup>th</sup> Recontres du Vietnam (Hanoi): *CP Violation*  
 01/2004 WHEPP 8 (Bombay): *CP Violation*  
 10/2003 HERA WS (WIS): *CP Violation*  
 04/2003 Ringberg Phenomenology WS (Ringberg): *SU(3) for CP Violation*  
 12/2002 WS on Third Generation (Rome): *CP Violation*  
 07/2002 31<sup>st</sup> ICHEP (Amsterdam): *CP Violation*  
 11/2001 5<sup>th</sup> KEK Topical Conference (KEK): *Flavor symmetries*  
 12/2000 UK Theory Winter Meeting (Rutherford Lab): *CP Violation*  
 09/2000 DESY WS on CPV and Rare Processes (Hamburg)  
 04/2000 3<sup>rd</sup> Latin American Symposium on HEP (Cartagena)  
 05/1998 Minerva-GIF Gentner Symposium (HU)  
 02/1998 WS on Theory of LHC Processes (CERN)  
 07/1997 LP 1997 (Hamburg): *CP Violation*  
 11/1996 BaBar Physics WS Series (Rome): *Opening lecture*  
 10/1996 Quarks and Leptons: Masses and Mixing (Trieste)  
 05/1996 WS on K Physics (Orsay)  
 05/1995 6<sup>th</sup> International Symposium on Heavy Flavor Physics (Pisa)  
 12/1994 5<sup>th</sup> Gentner Symposium on Physics (Dresden)  
 10/1994 WS on the Origin of Fermion Masses and Mixings (Fermilab)  
 06/1992 WS on B Physics at Proton Accelerators (SSCL)  
 01/1992 IPS Meeting (WI): *Opening lecture*  
 10/1989 Heavy Quark Physics Symposium (Cornell)

## Colloquia

- 01/2023 NYU Abu Dhabi: *The jewels in the crown of the LHC*
- 11/2022 University of Haifa: *The jewels in the crown of the LHC*
- 06/2022 Technion: *The jewels in the crown of the LHC*
- 06/2020 KIT (Germany): *The three jewels in the crown of the LHC*
- 01/2020 WIS: *The three jewels in the crown of the LHC*
- 12/2019 TAU: *The three jewels in the crown of the LHC*
- 11/2017 BIU: *Neutrino masses go to Stockholm*
- 04/2017 University of Crete (Heraklion): *10+1 Best Reasons to Like CP Violation*
- 11/2015 BGU: *Neutrino masses go to Stockholm*
- 11/2015 WIS: *Neutrino masses go to Stockholm*
- 11/2015 TAU: *Neutrino masses go to Stockholm*
- 11/2015 Technion: *Neutrino masses go to Stockholm*
- 10/2014 University of Hawaii: *10+1 Best Reasons to Like CP Violation*
- 09/2013 Jozef Stefan Institute: *Flavor Physics: Past, Present, Future*
- 04/2012 U of Southern Denmark: *Flavor Physics: Past, Present, Future*
- 09/2011 Cornell University: *Flavorful Hadron Colliders*
- 07/2009 Fermilab: *Understanding Flavor at the LHC*
- 06/2009 Technion: *CP Violation goes to Stockholm*
- 06/2009 HU: *CP Violation goes to Stockholm*
- 03/2009 WIS: *CP Violation goes to Stockholm*
- 03/2009 CERN: *The NP and (hopefully) SM flavor puzzles at the LHC*
- 11/2008 BIU: *Understanding Flavor and CP Violation*
- 10/2008 IAS, Princeton: *Understanding Flavor and CP Violation*
- 10/2008 University of Milan: *Understanding Flavor and CP Violation*
- 05/2008 CERN: *Understanding flavor at the LHC*
- 10/2007 UAM, Madrid: *Flavor at the LHC era*
- 10/2007 SLAC: *Flavor at the LHC era*
- 05/2007 ETH, Zurich: *CP Violation and Flavor Physics: A New Era*
- 05/2007 Universitat Zurich: *Leptogenesis*
- 03/2007 IFAE, Barcelona: *Leptogenesis*
- 05/2007 CAB, Bariloche: *Leptogenesis*
- 02/2007 IAS, Princeton: *Leptogenesis*
- 07/2006 LNF, Frascati: *Neutrino Anarchy*
- 12/2005 SLAC: *What is special about neutrino flavor?*
- 04/2004 IAS, Princeton: *Neutrino Physics*

## Popular Lectures

- 10/2017 Physics Teachers Day: *The mystery of the missing antimatter*

- 04/2016 IPS student conference (Akko): *Particle Physics*
- 12/2015 Open University: *Physics Nobel Prize 2015*
- 12/2015 Physics Teachers Day: *The mystery of the missing antimatter*
- 02/2015 WIS: *The mystery of the missing antimatter*

## Lectures on Gender in Physics

- 03/2023 *Workshop on Gender in Science* (AIMS, Kigali, Rwanda)
- 11/2022 מרוץ מכשולים בשדה גברי – פיסיקאיות (Hebrew University, in Hebrew)
- 04/2022 *The glass hurdles for female scientists* (WIS)
- 10/2021 *Women physicists: a hurdle race in a masculine field* (Technion)
- 03/2021 מרוץ מכשולים בשדה גברי – פיסיקאיות (HEMDA + Swartz-Reisman, in Hebrew)
- 03/2020 הפורום להשכלה גבוהה, מפגש אקדמיה ומגדר: מגדר בפיזיקה באקדמיה (TAU, in Hebrew)
- 10/2019 SRitp workshop on Gender in Physics (WIS): *Gender in physics in Israel*
- 12/2018 כנס העתיד לשוויון מגדרי: פיסיקאיות – מרוץ מכשולים בשדה גברי (Tel Aviv, in Hebrew)
- 09/2018 1<sup>st</sup> workshop on HET and gender (CERN): *Women in Physics – why so few?*

## Organizing Committees (partial list)

- 05/2023 LHCP 2023 conference, program committee (Belgrade)
- 05/2021 Invisibles 2021 workshop (Madrid)
- 10/2019 WIS: Workshop - *Promoting gender equality in physics*
- 07/2019 EPS conference (Ghent)
- 06/2019 Invisibles 2019 School (Canfranc) and Workshop (Valencia)
- 09/2018 1<sup>st</sup> workshop on HET and gender (CERN)
- 09/2018 CKM 2018 (Heidelberg)
- 07/2017 EPS conference (Venice)
- 08/2015 EPS conference (Vienna)
- 08/2013 EPS conference (Stockholm)
- 05/2011 WIS: *Workshop - electroweak baryogenesis*
- 02/2010 GGI, Florence: *Workshop - indirect searches for NP*
- 06/2008 CERN: *Theory Institute Program on Flavor*
- 11/2006 WIS: *LHC School*
- 08/2005 Les Houches: *Summer School on Particle Physics BSM*
- 07/2003 Aspen: *Workshop - The Flavor Puzzle*
- 03/2001 WIS: *Workshop - Are the Constants of Nature constant?*
- 08/2001 St. Andrews: *Co-director of the 55<sup>th</sup> SUSSP*
- 12/1998 WIS: *Symposium - QFT at Work*
- 08/1997 Jerusalem: *International Europhysics Conference on HEP*
- 04/1997 WIS: *Workshop - Dynamical Supersymmetry Breaking*

03/1997 Rome, Princeton, Orsay, Caltech: *Group convener in Babar WS's*  
07/1993 Marseilles: *Session organizer for EPS HEP-93*  
06/1993 Snowmass: *Session organizer for WS on B Physics*  
07/1991 Eilat: *Session organizer for 4<sup>th</sup> Gentner Symposium*

## Teaching Experience

1999-2021 Courses on Standard Model, BSM, Particle Cosmology, QFT

## Ph.D. Students (in parenthesis: current academic position)

1995 Zoltan Ligeti (LBL)  
1996 Yuval Grossman (Cornell)  
2000 Galit Eyal  
2001 Sven Bergman (Lausanne)  
2003 Gilad Perez (WIS)  
2006 Guy Raz  
2007 Tomer Volansky (Tel Aviv University)  
2008 Guy Engelhard  
2008 Tamar Kashti  
2011 Kfir Blum (WIS)  
2013 Daniel Grossman  
2013 Yonit Hochberg (Hebrew University)  
2017 Aielet Efrati  
2019 Avital Dery (Postdoc at Cornell University)  
2019 Daniel Aloni (Postdoc at Boston University)  
2022 Nitsan Bar  
Current Yehonatan Viernik  
Current Yogev Shpilman

## Prizes and Fellowships

2011 Fellow of the American Physical Society  
2010 The Jack Wolgin Prize for Scientific Excellence  
1993 Levinson Prize  
1988 Weizmann Fellowship  
1987 Kennedy Prize (WIS)  
1986 Fulbright Fellowship  
1985 Halinger Prize (WIS)  
1982 Excellence Prize (Technion)

## Personal Data

Born November 28, 1954

Married to Tsafra Perlmutter; Father of Uri, Itai, Amit and Rotem

1973-1978 Military Service