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# Frank A. Wilczek

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## CURRICULUM VITAE

Herman Feshbach Professor of Physics  
Center for Theoretical Physics, MIT, Cambridge MA, USA  
wilczek@mit.edu

Founding Director, Tsung-Dao Lee Institute  
Chief Scientist, Wilczek Quantum Center  
Shanghai Jiao Tong University  
Shanghai, China  
wilczek@sjtu.edu.cn

Distinguished Origins Professor  
Arizona State University  
Tempe AZ, USA  
frank.wilczek@asu.edu

Professor of Physics  
Stockholm University  
Stockholm, Sweden  
frank.wilczek@fysik.su.se

### Personal Information:

Born in New York, May 15, 1951 (U.S. Citizen)  
Married to Elizabeth J. Devine, June 3, 1973  
Two children (Amity, born 9/3/74 and Mira, born 1/18/82)

### Education:

B.S. University of Chicago (Mathematics), 1970  
M.A. Princeton University (Mathematics), 1972 Ph.D. Princeton University (Physics), 1974

### Experience:

Instructor, Princeton University, January 1974-June 1974  
Assistant Professor, Princeton University, September 1974-June 1976  
Visiting Fellow, The Institute for Advanced Study, September 1976-June 1977  
Assistant Professor, Princeton University, September 1977-June 1978  
Associate Professor, Princeton University, September 1978-June 1980  
Professor, Princeton University, July 1980-June 1981

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Professor, University of California, Santa Barbara, November 1980-December 1988

Member, Institute for Theoretical Physics, University of California, Santa Barbara, November

1980-December 1988

Visiting Professor, Harvard University, September 1987-June 1988

Professor, School of Natural Sciences, The Institute for Advanced Study, Princeton, NJ, January 1989-August 2000

Professor, Massachusetts Institute of Technology, September 2000-

Visiting Professor, NORDITA, Fall 2007 -

Visiting Professor, Oxford University, Spring 2008

Origins Project Distinguished Visiting Professor, Arizona State University, Winter 2010-2016

Chief Scientist, Wilczek Quantum Center, Shanghai Jiao Tong University, Shanghai, China, October 2014

Origins Distinguished Professor, Arizona State University, July 2016 -

Founding Director of the Tsung-Dao Lee Institute at the Shanghai Jiao Tong University in Shanghai, China, Sept. 2017.

## Awards, Honorary Societies:

1967	Westinghouse Science Talent Search, 4th Prize
1969	Phi Beta Kappa
1973	Ettore Majorana "Best Student" Prize
1975-1977	AP Sloan Foundation Fellow
July 1982-1987	John & Catherine MacArthur Foundation Fellow
April 1986	American Physical Society J.J. Sakurai Prize
May 1990-	Member, National Academy of Sciences
April 1993-	Member, American Academy of Arts and Sciences
Aug. 1994	Awarded the 1994 Dirac Medal and Prize by the International Centre for Theoretical Physics (Trieste, Italy)
May 2000	Elected Foreign Member, Royal Netherlands Academy of Arts and Sciences
Dec. 2000	Elected Fellow, American Association for Advancement of Science May 2001 Honorary Doctorate, Universit�e de Montr�eal
April 2002	Michelson-Morley Prize, Case Western Reserve University
Oct. 2002	Lorentz Medal, Royal Netherlands Academy of Arts and Science

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April 2003	Lilienfeld Prize, American Physical Society
July 2003	High Energy Physics Prize, European Physical Society
July 2003	Faculty of Mathematics and Physics Commemorative Medal, Charles University, Prague
Dec. 2004	Nobel Prize in Physics, Royal Swedish Academy of Sciences, Stockholm, Sweden
Jan. 2005	King Faisal International Prize for Science, King Faisal Foundation
April 2005	Member, American Philosophical Society, Philadelphia
June 2005	Golden Plate Award, Academy of Achievement, New York
April 2007	Honorary Doctorate, Clark University
Aug. 2007	Elected Fellow, Polish Academy of Arts and Sciences
May 2008	Honorary Doctorate, Maria Curie-Sklodowska University
Aug. 2008	Honorary Doctorate, The Ohio State University
Nov. 2008	Julius Wess Award (Inaugural), Karlsruhe Institute of Technology
Dec. 2008	Casimir Funk Award
April 2012	The Kosciuszko Medal, Kosciuszko Foundation
Sept. 2012	Honorary Doctorate, Jagiellonia University, Krak'ow
Jan. 2013	Honorary Doctorate, Uppsala University
Oct. 2013	Honorary Doctorate, Gustavus Adolphus College
Dec. 2013	Oskar Klein Medal, Stockholm University
Oct. 2015	Doctor Honoris Causa, Rzeszow University, Podkarpacie region, Poland
Sept. 2016	Richard E. Prange Prize, University of Maryland
Nov. 2017	Society for Design and Process Science transformative achievement Award, Birmingham, AL

## Honoric Appointments:

Sept. 1984-1990	Chancellor Robert Huttenback Professor of Physics, UCSB
June 1986-Sept. 1988	Regent's Fellow, Smithsonian

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Astrophysical Observatory  
Sept. 1994-June 1997 Leland Haworth Distinguished Scientist, Brookhaven National  
Laboratory  
Oct. 1997-Aug. 2000 J. Robert Oppenheimer Professor, Institute for Advanced Study  
April-June 1998 Lorentz Professor, Leiden University  
Sept. 2000- Herman Feshbach Professor, Massachusetts Institute of  
Technology  
Jan. 2002 - Adjunct Professor, Centros Estudios Científicos  
June 2002 Visiting Schrödinger- Professor 2002, City of  
Vienna, Austria  
Jan. 2008 Rudof Peierls Visiting Professor of Physics, Oxford  
University  
Jan. 2008 Associate Member and Fellow, All Soul's College  
Jan. 2010- Origins Project Distinguished Visiting Professor, Arizona State  
University  
Oct. 2014 Honorary Professor, Zhejiang University of  
Technology, Hangzhou, China  
Oct. 2014 Chief Scientist, Wilczek Quantum Center  
Dec. 2014 Honorary Member, Polish Physical Society  
Sept. 2017 Founding Director, T.D. Lee Institute, Shanghai Jiao Tong  
University, Shanghai, China  
Dec. 2017 Member of The Royal Swedish Academy of Sciences  
(Kungl. Vetenskaps. Akademien)  
Feb. 2018 Partner Investigator, Discovery Project, Australian Research  
Council

## Honoric Lectures:

April 1982 Morris Loeb Lecturer in Physics, Harvard  
University  
April 1986 Flint Lecturer, Yale University  
April 1988 Hamilton Lecturer, Princeton University  
Jan. 1992 Scott Hawkins Lecturer, Southern Methodist  
University  
Oct. 1992 Bethe Lecturer, Cornell University  
April 1993 Anna McPherson Lecturer, McGill  
University  
Dec. 1994 Rowland Lecturer, University of  
Kentucky  
April 1995 Michelson Lecturer, Case Western Reserve University  
Jan. 1999 Dashen Lecturer, (inaugural) University of California,

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	San Diego
April 2001	H. Primakoff Lecturer, American Physical Society
April 2001	Potts Lecturer, John Hopkins University
April 2001	A.O. Williams Lecturer, Brown University
April 2001	Pappalardo Lecturer, Massachusetts Institute of Technology
Oct. 2003	Feenberg Memorial Lecturer, University of Washington, St. Louis
Jan. 2004	Heilborn Lecturer, Northwestern University
Feb. 2004	IFT Lecturer, University of Florida
April 2004	Marker Lecturer, Pennsylvania State University
July 2004	J. Robert Oppenheimer Memorial Lecturer, Santa Fe
July 2004	Director's Colloquium, Los Alamos National Laboratory
Oct. 2004	Enrico Fermi Lecturer, Argonne National Laboratory
Nov. 2004	Green College Lecturer, University of British Columbia
Feb. 2005	Dean Edmonds Lecture, Boston University
March 2005	MIT/Ford Lecture, Massachusetts Institute of Technology
March 2005	Intel Science Talent Search Distinguished Alumni Speaker, Washington, DC
March 2005	Raytheon Public Lecture, University of Arizona, Tucson
April 2005	Smith Lecture, The Ohio State University, Columbus
April 2005	Hamilton Lecture, Princeton University
May 2005	Simon Cherwell Lecture, Oxford University, UK
June 2005	Lecture at Lindau, Germany meeting of Nobel Laureates
Sept. 2005	Heinrich Hertz Lecture, Hamburg, Germany
Sept. 2005	Miller-Breit Lecture, Yale University
Sept. 2005	Katzenstein Lecture, University of Connecticut
Sept. 2005	Wright Lecture, Boston Museum of Science
Oct. 2005	Einstein Memorial Lecture, Princeton Chamber of Commerce
Nov. 2005	Kaczmarczik Lecture, Drexel University

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Nov. 2005	Dean's Lectureship, University of Kentucky
Jan. 2006	Barkla Lecture, (inaugural) University of Liverpool
Jan. 2006	Zachariasen Lecture, University of Chicago
Jan. 2006	Konopinski Memorial Lecture, Indiana University
Feb. 2006	Scott Lectures, Cambridge University, Cavendish Lab, UK
March 2006	Fritz London Lecture, Duke University
April 2006	Crawford Lecture, University Pittsburgh
April 2006	Simons Lecture, SUNY, Stony Brook
April 2006	BSA Distinguished Lecture, Brookhaven National Lab
Oct. 2006	Fine Lecture, (inaugural) University of Minnesota
Oct. 2006	Venkateswarlu Memorial Lecture, Alabama A&M
Nov. 2006	Nobel Laureate Public Lecture Series, Old Dominion University
March 2007	Houston Lecture, Rice University
March 2007	Nobel Laureate Lecture, McMurry University
April 2007	President's Lecture, Clark University
Oct. 2007	Hamilton Lecture, Royal Irish Academy, Dublin
Dec. 2007	Sir Neil Waters Lecture, Massey University, New Zealand
March 2008	Grandes Conferences, Ecole Normale Supérieure
May 2008	Dirac Lecture, Cambridge University
Oct. 2008	de Sitter Lectures, Groningen (Inaugural)
Oct. 2008	Distinguished Lecture Series, University of Wisconsin, (LaCrosse)
Oct. 2008	Ta-You Wu Lecture, University of Michigan
Feb. 2009	Siemens Foundation Lecture/Seminar, (Munich)
Oct. 2009	Einstein Lectures, (Inaugural) Bern
Jan. 2010	Origins Lecture, Arizona State University
March 2010	Oppenheimer Lecture, Berkeley
Nov. 2010	Louis Clark Vanuxem Lecture, Princeton
Feb. 2011	Darwin College Lecture Series, Cambridge University, UK

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April 2011	George Gamow Memorial Lecture, University of Colorado, Boulder
April 2011	Lightner-Sams Lecture, Southern Methodist University, Dallas
Nov. 2011	Boltzmann Lecture, University Wien, Vienna
Sept. 2012	Royal Academy Nobel Laureate Lecture, Copenhagen
Oct. 2012	Hubert James Lecture, Purdue University
April 2013	Frontiers of Physics Lecture, University of California, Davis
May 2013	Arnold Sommerfeld Lectures Series, ASC, Munich, GR
July 2013	Majorana Lecture, Erice, Italy
Oct. 2013	Nobel Conference Lecture, Gustavus Adolphus College
Dec. 2013	Oskar Klein Memorial Lecture, Stockholm, Sweden
March 2014	Della Pietra Lectures, Simons Center, Stony Brook
March 2014	Presidential Lecture Series, University of Tulsa
April 2014	Littleton-Franklin Lecture, Auburn University
Oct. 2014	Huang Changfeng Distinguished Lecture, Tsinghua University, Beijing, China
Oct. 2014	Centennial Lecture, Beijing University China
Feb. 2015	Frederick Reines Memorial Lecture (Inaugural) University of California, Irvine
March 2015	Andrew Chamberlain Memorial Lecture, Cambridge University, UK
May 2015	Address at Brown University “Imagining 250 Years in Physics”
Nov. 2015	Address at Royal Society Symposium “150 Years of Maxwell Equation”
Sept. 2016	Richard E. Prange Lecture, University of Maryland
Sept. 2016	“Some intersections of Art and Science”, University of Maryland
Sept. 2016	Joint Quantum Institute seminar on “Anyons” at MIT
Jan. 2017	“Materiality of Vacuum”, Public lecture, Arizona State University
Feb. 2017	Augmenting Reality: Axions, Anyons, and Entangled Histories, Bhaumik lectures – UCLA
Nov. 2017	Topical Workshop on Dark Matter, NTU Singapore, “New ideas for Axion Searches”
Nov. 2017	Nobel Public Lecture, “Dark Matter”, Science Centre, Singapore

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Feb. 2018 2018 Lawrence Symposium “14 Questions about time”  
May. 2018 Public Lecture, University of Helsinki, “The Strange,  
Unfinished story of Time Reversal”

## Editorial and Advisory Boards:

1978-1982 High Energy Advisory Committee, Brookhaven  
National Lab.  
Nov. 1981-1997 Editorial Board, *Zeitschrift für Physik C*  
July 1985-Sept. 1989 Editorial Committee, Annual Reviews of Nuclear &  
Particle Science  
1986-1988 D.O.E. High Energy Physics Advisory Panel (HEPAP)  
Jan. 1987-2003 Oversight Committee, Theoretical Physics Institute  
(University of Minnesota)  
Jan. 1988-May 1991 Monthly “Article Alert” Column for *The Scientist*  
Sept. 1989-1992 ITP Advisory Board (Santa Barbara)  
March 1993-1998 Sloan Foundation Research Fellowship  
Committee  
March 1999-2000 International Review Committee for  
Presidential Science Chairs, Santiago,  
Chile  
Sept. 2001-2012 Editor in Chief, *Annals of Physics*  
Jan. 2002-2008 Science Policy Committee, (CERN)  
Jan. 2002- Editorial Advisor, *Daedalus*  
Jan. 2003-June 2007 Scientific Advisory Committee, Perimeter ITP,  
(Waterloo, Canada)  
Sept. 2006- Board of Governors, New York Academy of Sciences  
Oct. 2008- Board of Trustees, Society for Science and the Public  
Sept. 2012- Scientific Advisory Board, Niels Bohr International Academy,  
Copenhagen

## Other:

Dec. 1984 Selected one of America’s 100 brightest scientists under 40  
Dec. 1984 Esquire Register; featured in article p. 62, December  
1984 issue  
June 1998 Elected to University of Chicago Board of Trustees  
April 2003 “The World’s Numerical Recipe” selected to be  
included in *Best American Science Writing 2003*  
ed. O. Sacks (Ecco/HarperCollins)  
April 2005 “Whence the Force of  $F=ma$ ?” selected to be  
included in *Best American Science Writing 2005*

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	ed. A Lightman (Ecco/HarperCollins)
Nov. 2014	Wilczek Quantum Center established at ZJUT, Hangzhou, China
Jan. 2016 -	Monthly column “Wilczek’s Universe” at Wall Street Journal
March 2017	Awarded the prestigious ERC Advanced Grants
April 2017	Lee Kong Chian Distinguished Professor under the IAS’s Lee Kong Chian Endowment Fund
	Adjunct Researcher - CECs, Centro de Estudios Científicos (Center for Scientific Studies)
Nov.2017	The pursuit of the real-time crystal. The Hunt for the Real Time Crystal - DN.SE ( <a href="https://www.dn.se/nyheter/vetenskap/jakten-pa-den-verkliga-tidskristallen/">https://www.dn.se/nyheter/vetenskap/jakten-pa-den-verkliga-tidskristallen/</a> )
Feb.2018	Frank Wilczek prize, Jagiellonian University, Krakow, Poland
March.2018	Setting up of SciHub (Science Hub) at Arizona State University, Tempe, AZ