

# PETER SARNAK

## CURRICULUM VITAE

BIRTHPLACE: Johannesburg, South Africa

CITIZENSHIP: U.S.A./South Africa

### EDUCATION

- BSc. University of Witwatersrand, 1974  
BSc. Honors - University of Witwatersrand, 1975  
Ph.D. Stanford University, 1980 (Adviser Paul Cohen)

### POSITIONS

- 2007- Professor, Institute for Advanced Study (Gopal Prasad Professor, 2022)  
2005-2007 Member, Institute for Advanced Study  
2002- Eugene Higgins Professor of Mathematics,  
Princeton University  
2001-2005 Courant Institute, NYU, Professor  
1999-2002 Member: Institute for Advanced Study, Princeton  
1996-1999 Chair, Princeton University, Department of Mathematics  
1995-1996 H. Fine Professor, Princeton University  
1991- Princeton University, Professor  
1989 Sherman Fairchild Distinguished Scholar, California Institute of Technology  
1987-88 Institute of Advanced Studies, Hebrew University, Fellow  
1987-91 Stanford University, Professor  
1983 Courant Institute of Mathematical Sciences, New York University,  
Associate Professor  
1980-83 Courant Institute of Mathematical Sciences, New York University,  
Assistant Professor

AWARDS/HONORS

- 2021 Elected Honorary Member of the London Mathematical Society.
- 2020 Hardy Lecturer, London Mathematical Society.
- 2019 Sylvester Medal, Royal Society.
- 2017 Honorary Doctorate, Kings College London; Fellow of the American Mathematical Society.
- 2016 Honorary Doctorate, The University of St. Andrews, Scotland.
- 2015 Honorary Doctorate, The University of Chicago; elected Honorary Fellow of The Royal Society of South Africa.
- 2014 Honorary Doctorate, Shandong University, China; Wolf Prize in Mathematics; Honorary degree, University of Witwatersrand, Johannesburg; Phi Beta Kappa award for excellence in undergraduate teaching, Princeton chapter.
- 2013 Elected foreign member Academia Europea
- 2012 Lester Ford Prize MAA
- 2010 Honorary Degree, Hebrew University, Jerusalem
- 2008 Elected to The American Philosophical Society
- 2005 Frank Nelson Cole Prize, AMS
- 2004 Aisenstadt Chair, CRM (Montreal); Rothchild Chair, Isaac Newton Institute (Cambridge).
- 2003 Levi L. Conant Prize (AMS) (joint with N. Katz).
- 2002 Elected Member of the National Academy of Sciences (U.S.A.), and Fellow of the Royal Society (U.K.).
- 2001 Ostrowski Prize from the Ostrowski Foundation, Basel, (shared with H. Iwaniec and R. Taylor)
- 1998 Polya Prize of Society of Industrial & Applied Mathematics, (shared with P. Deift and X. Zhou)
- 1991 Elected to American Academy of Arts & Sciences
- 1985-90 Presidential Young Investigator
- 1983-85 Sloan Fellow
- 1975 Unisco Chemical Company Gold Medal, (University of Witwatersrand)
- 1974 William Cullen Medal, (University of Witwatersrand)
- 1974 Hebert LeMay Prize, (University of Witwatersrand)

COMMITTEE WORK

- Trustee MSRI
- American Institute of Mathematics, Chair Scientific Advisory Panel, 2002-2016
- Fields Institute, Scientific Advisory Committee 2000/2003
- Scientific Advisory Committee I.H.E.S. (France), 1997-2003
- Scientific Advisory Committee  
MSRI (Mathematic Sciences Research Institute) - 1990-1996
- Trustee MSRI (Mathematic Sciences Research Institute) - 2006-2009
- Fields Medal Committee 2010.
- Chair, Shaw Prize in Mathematical Sciences Committee 2010-2016.
- Chair of Mathematics Section, National Academy of Sciences 2012-2015.
- NSF Advisory Committee - 1988-1992
- Visiting Oversight Committees
  1. Michigan University - Mathematics Department, 1993
  2. University of Toronto - Mathematics Department, 1994
  3. California Institute of Technology - Physics & Astronomy, 1995
  4. Landau Institute, Hebrew University, Jerusalem, 1996
  5. NSERC Committee Review of Mathematics, Canada 1996
  6. MIT, 2008-2010
  7. International Benchmarking of U.S. Research Fields Mathematics Panel, 1997 (for NRC).
  8. University of Maryland, Mathematics Department, 2001 item International Review of Mathematics in the U.K. Committee, 2004
  9. Columbia University, Mathematics Department, 2004
  10. University of Pennsylvania, Mathematics Department, 2005
  11. Head of the U.S. Delegation to the IMU General Assembly, Spain, 2006
  12. FIM (ETH Zurich), Advisory Board, 2004-
  13. Institute for Advanced Study, Hebrew University, Advisory Board.
  14. International Member of RAE 2008 Panel (UK)

EDITORIAL BOARDS

- Cambridge University Press
- Duke Mathematics Journal
- GAFA (Geometric & Functional Analysis)

- Compositio Mathematica
- Annals of Math 1996-2012, 2016-
- Journal of Experimental Mathematics
- Forum Mathematics (term completed 2011)
- Communications in Mathematical Physics (term completed 2008).
- IMRN
- Colloquium Series, AMS

### LECTURE SERIES

- 2021 Lorne Campbell Lecture, Queens University.
- 2020 Hardy Lecture, Annual Meeting of the London Mathematical Society.
- 2019 Baylor Lecture Series in Mathematics, Baylor University; MSCS Distinguished Lecture Series, UIC; Albert Einstein Lecture, Israel Academy of Sciences; Virginia Mathematical Lectures, Charlottesville, VA; Ahlfors Lectures, Harvard University.
- 2018 Pascal Lecture, Durham University (UK).
- 2017 Harold Bohr Lecture, University of Copenhagen.
- 2016 Heilbronn Distinguished Lecture Series, University of Bristol; Hilldale Lecture, University of Wisconsin–Madison.
- 2015 Public lectures at the University of Oklahoma, Norman and Stanford University; Ordway lectures, University of Minnesota, Erdős Memorial Lecture, AMS, Chicago meeting.
- 2014 Eisenbud Lectures in Mathematics and Physics, Brandeis; Distinguished Public Lecture, King College London; Public Lecture at the University of Witwatersrand, Johannesburg.
- 2013 Myhill Lectures, University of Buffalo
- 2012: A. Albert Lectures, University of Chicago  
Ramanujan Lectures, Tata Institute, Mumbai, India  
Langenhop Lecture, Carbondale, Ill.  
Phillips Lecture Series, Michigan State University
- 2011: Maxson Lectures Texas A and M  
Distinguished Lecture Series, Boston College  
Mahler Lecture Tour (Australia)
- 2010 A. Whitman Lectures, USC
- 2009 de-Rham Lecture, Lausanne, Switzerland
- 2009 RISM, Riemann Conference in Verbania Italy, Lectures on  $L$ -functions.

- 2008 Mark & Joanna Pinsky Distinguished Lecture Series, Northwestern, Ramanujan Colloquium Lecture, University of Florida, Gainesville, Howard Rowlee Lecture, University of Nebraska, Lincoln
- 2007 Pacific Institute of Mathematics, 10th Anniversary lecture, (Vancouver in September).
- 2006 Pekeris Lecture: Weizmann Institute, Wolff Lectures: Caltech, Distinguished Lecturer: UCLA, Rademacher Lectures: UPenn.
- 2005 Simons Lectures SUNY Stonybrook, ARF Lecture, Ankara Turkey
- 2005 Mordell Lecture Cambridge UK, Gustafsson Lectures, KTH Stockholm, Everett Pitcher Lectures Lehigh University, Coble Lectures, University of Illinois, Champaign
- 2004 Zassenhaus Lectures, Ohio State University, Niven Lectures, University of Oregon, Distinguished Israel Pollak Lecturer, Technion Haifa, The Earle Raymond Hedrick Lectures, MAA
- 2003 Andrejewski Lectures, Göttingen, AMS Colloquium Lectures, Baltimore, Fields Institute Distinguished Lectures Series
- 2002 Turan Memorial Lectures, Hungarian Academy, Budapest, R. Brauer Lectures, University of North Carolina
- 2001 Milliman Lectures, University of Washington, Marker Lectures, Penn State University
- 2000 Kiwet Lectures, University of Michigan, Ann Arbor, Sackler Lectures, Tel-Aviv University, Wolfgang Pauli Lectures, ETH, Zurich
- 1999 Dressler Lecture, Kansas State University
- 1998 Landau Lectures, Hebrew University, Jerusalem, Yamabe Lecture, University of Minnesota, Minneapolis
- 1996 Kemeny Lectures, Dartmouth, Bowen Lectures, University of California, Berkeley, Grosswald Lectures, Temple University, Gergen Memorial Lectures, Duke University
- 1995 Clifford Lectures, Tulane University, Courant Lectures, New York University
- 1993 Blyth Lectures, University of Toronto
- 1992 Schur Lectures, Tel Aviv University
- 1990 Porter Lectures, Rice University
- 1989 Whittemore Lectures, Yale University

#### SOME SPECIAL CONFERENCE LECTURES

- 1990 ICM 45-minute Lecture, Kyoto
- 1997 Int. Congr. of Math. Physics, Plenary Talk (Brisbane)
- 1998 ICM Plenary Lecture, Berlin

- 2000 African Congress of Mathematicians, Plenary Lecture, Cape Town, Africa
- 2007 Garden State Undergraduate Mathematics Conference, Keynote Address, Glassboro, New Jersey
- 2009 MAA Annual Meeting Plenary Lecture, Young Mathematicians Conference, Ohio-State University Plenary Lecture.
- 2010 Plenary Lectures at the Annual Meetings of the Canadian and Israel Math. Societies.
- 2011 Joint South African Mathematical Society, American Mathematical Society, Port Elizabeth, Plenary Lecture.
- 2016 British Mathematical Colloquium, Bristol; Graduate Student Invited Colloquium, Purdue; The 27th Nordic Congress of Mathematicians, Stockholm.
- 2022 Plenary Lecture, Joint Meeting AMS-EMS-SMF; Plenary Lecture Indian Math Society Annual Meeting.

SUPERVISED PH.D.'S OF THE FOLLOWING PERSONS:

1. I. Efrat	2. G. Davidoff
3. W. Duke	4. V. Donnay
5. J. McLaughlin	6. S. Arno
7. J. Huntley	8. J. Pila
9. J. Jorgenson	10. H. Khuri
11. Y. Katznelson	12. Y. Pedritis
13. R. Lundelius	14. P. Chui
15. A. Eskin	16. D. Jakobson
17. A. Zaharescu	18. A. Karnaukh
19. S.D. Miller	20. M. Rubinstein
21. J. Vanderkam	22. K. Soundarajan
23. A. Gamburd	24. S. Paul
25. J. Vinson	26. E. Duenez
27. Z. Peng	28. T. Watson
29. A. Booker	30. H. Helfgott
31. G. Harcos	32. M. McKee
33. S.J. Miller	34. A. Venkatesh
35. F. Spinu	36. F. Brumley
37. L. Silberman	38. Y. Kerzhner
39. D. Milicevic	40. A. Kontorovich
41. A. Yang	42. S. Marshall
43. E. Fuchs	44. J. Tsimerman
45. A. Altug	46. J. Jung
47. Y. Park	48. R. Peckner

49. N. Sardari	50. P. Humphries
51. R. Zhang	52. J.H. Whang
53. M. De Courcy-Ireland	54. V. Wang