

Curriculum Vitae for TWAS

Kapil Hari Paranjape

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Personal Information

Name: Kapil Hari Paranjape

Date of Birth: 19 March 1960

Nationality: Indian

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India.

Employer: Indian Institute of Science Education and Research Mohali

Position: Professor

Educational Qualifications

1. A.I.H.S. (High School), 1977,
First Class with distinction,
Sardar Patel Vidyalaya, New Delhi, India.
2. M.Sc. (5-year Integrated), 1982,
First Class First with distinction,
Indian Institute of Technology, Kanpur, India.
3. Ph.D., 1992,
(Thesis submitted in 1989 based on work done at TIFR),
University of Bombay, Bombay, India.

Awards

1. Junior Science Talent Search Scholarship, 1974.
2. Math Olympiad, DMTU, Delhi 1976.
3. National Science Talent Search Scholarship, NCERT, 1977.

4. General Proficiency Prize for Mathematics, I.I.T. Kanpur, 1982.
5. IMU grant for ICM 1990, IMU, 1990.
6. Associateship of Indian Academy of Sciences 1992-95, IAS, 1992.
7. Fellowship of Indian Academy of Sciences Bangalore, 1997.
8. Fellowship of National Academy of Sciences Allahabad, 1999.
9. B. M. Birla award for young scientists, 1999.
10. DST Swarnajayanti Grant, 2001.
11. Associate of the ICTP, Trieste, 1999-2001.
12. NBHM National Lecturer, India, 2004-2005.
13. Shanti Swarup Bhatnagar Award, 2005.
14. Debian Developer, 2007.
15. Fellowship of Indian National Science Academy, New Delhi, 2009.
16. J. C. Bose National Fellowship, 2010, renewed in 2015.
17. Fellowship of The World Academy of Sciences, Trieste, 2018.

Positions held

1. Research Assistant, TIFR (1982 to 1987)
2. Research Associate, TIFR (1987 to 1989).
3. Fellow, TIFR (1989 to 1993).
4. Reader, TIFR (1993 to 1998; on long leave from Nov. 1995).
5. Professor, ISI (Nov. 1995 to Aug. 1996).
6. Associate Professor, IMSc (Sep. 1996 to Aug. 2003).
7. Professor, IMSc (Sep. 2003 to August 2011)
8. Visiting Faculty, IISER Mohali (Aug. 2009 to March 2010).
9. Professor of Mathematics, IISER Mohali (Apr. 2010 to date).
10. Dean Academics, IISER Mohali (Jan. 2010 to Dec. 2012).
11. Dean Faculty, IISER Mohali (Jan. 2014 to Dec. 2016).
12. Head Mathematical Sciences, IISER Mohali (Aug. 2012 to current).

Professional Experience

1. Visiting Member, Institute of Mathematical Sciences, Madras, India (Dec. 1984).
2. Exchange visitor (Indo-French programme), Université de Paris VII, Paris, France (Nov.-Dec. 1989).
3. Visiting Member, Max-Planck-Institut für Mathematik, Bonn, Germany (Jan.-June 1990).
4. Visiting Assistant Professor, Department of Mathematics, University of Chicago, Chicago, U.S.A. (Oct. 1990 to Sept. 1991).
5. Exchange visitor (IFCPAR), Université de Paris-Sud, Orsay, France (May-Jun. 1993).
6. Visiting Scientist, FB Mathematik, Universität Essen (GHS), Essen, Germany (June-July 1993).
7. Visitor Scientist, Mathematics Research Centre, University of Warwick, Coventry, UK (July 1996).
8. Exchange visitor (IFCPAR), Université de Paris-Sud, Orsay, France (July-Aug. 1998).

9. Visiting Scientist, Department of Mathematics, California Institute of Technology, USA (May 2001).
10. Visiting Scientist, Department of Mathematics, California Institute of Technology, USA (Feb. 2004).
11. Visiting Scientist, Department of Mathematics, California Institute of Technology, USA (April-May 2005).
12. Visiting Professor, TIFR, Mumbai, India (June 2005).
13. Visiting Scientist, Department of Mathematics, California Institute of Technology, USA (February 2006).
14. Visiting Professor, Department of Mathematics, California Institute of Technology, USA (Winter Quarter 2007).
15. Visiting Scientist, Department of Mathematics, Research Institute for Mathematical Sciences, Kyoto, Japan (May 2009).
16. Visiting Scientist, Department of Mathematics, California Institute of Technology, USA (May-June 2009).
17. Visiting Scientist, Department of Mathematics, University of Duisberg-Essen, Germany (June 2012).
18. Visiting Scientist, Department of Mathematics, University of Chicago, USA (June-July 2014).
19. Visiting Scientist, Department of Mathematics, University of Chicago, USA (May-June 2017).
20. Visiting Scientist, Department of Mathematics, LMU, Munich, Germany (May-June 2019).

Editorships and International Bodies

1. Associate Editor, Proceedings of the Indian Academy of Sciences (Math. Sci.), from December 1995 to February 2013.
2. Member, Editorial Board, Journal of the Ramanujan Mathematics Society, from January 1996 to 2013.
3. Member, Editorial Board, 'Resonance' A Journal of Science Education, January 1997 — December 2002, January 2014 — current.
4. Member, Editorial Board, Texts and Readings in Mathematics, from July 1998 to 2012.
5. Member, Committee on Electronic Information and Communication of the International Mathematical Union, October 1999 — August 2002.
6. Member, The Mathematics Advisory Board of <http://arXiv.org>, since March 2002.
7. Academic Secretary, The Ramanujan Mathematical Society from December 2009 to 2011.
8. Member, Editorial Board, Indian Journal of Pure and Applied Mathematics from January 2013 to December 2013.
9. Member, Council of the Indian Academy of Sciences, Bangalore, from January 2016 to current.
10. Member, Academic Committee, School of Physical Sciences, JNU, India, from July 2015 to July 2016.
11. Member, National Board for Higher Mathematics, India, from July 2015 to current.
12. Chairperson, Programme Advisory Committee for Mathematical Sciences, SERB, India, from July 2015 to current.
13. Convenor, CSIR/UGC-NET for Mathematical Sciences, CSIR-HRDG, India, from July 2016 to current.
14. Member, Council of the Indian National Science Academy, New Delhi, from 2019 to current.

Workshops & Conferences

1. D.A.E. Summer School on Global Analysis, 1980, Mysore, India.
2. D.A.E. Summer School on Algebraic Curves, 1981, Pune, India.
3. C.T.S. Workshop on String Theory, 1988, Bangalore, India.
4. Indo-French Conference on Geometry, 1989, Bombay, India.

5. Algebraic Geometry and Analytic Geometry, 1990, Bayreuth, Germany.
6. Summer School on Hodge Theory, 1990, Bangalore, India.
7. Algebraic Geometry and Analytic Geometry, 1990, Tokyo, Japan.
8. International Congress of Mathematicians, 1990, Kyoto, Japan.
9. AMS Meeting on Arithmetic Algebraic Geometry, 1991, Portland, U.S.A.
10. AMS Conference on Motives, 1991, Seattle, U.S.A.
11. Second Utah conference on Higher Dimensional Geometry, 1991, Salt Lake City, U.S.A.
12. Workshop on Operator Algebras, Complex analysis etc. JNCASR-ISI, 1995, Bangalore, India.
13. Euroconference on Algebraic Geometry, University of Warwick, 1996, Coventry, UK.
14. Topology and Geometry conference, JNCASR-ISI, 1996, Bangalore, India.
15. First National Conference on Comm. Alg. and Alg. Geom., Kodaikanal observatory, February 1998.
16. ICM Satellite conference on Algebraic Geometry, Essen, Germany, August 1998.
17. Second National Conference on Comm. Alg. and Alg. Geom., MRI, Allahabad, February 1999.
18. Second Conference on the Future of Mathematical Communication, Univ. of Cal., Berkeley, USA, December 1999.
19. International Colloquium on Arithmetic, Algebra and Geometry, TIFR, Mumbai, India, January 2000.
20. Conference on Vanishing Theorems and Effective Results in Algebraic Geometry, ICTP, Trieste, Italy, May 2000.
21. Mini-Symposium on Motives, IMSc, Chennai, July-August 2000.
22. International Conference on Commutative Algebra and Algebraic Geometry, University of Hyderabad, November 2001.
23. INDOCRYPT, 2001, IIT, Chennai, December 2001.
24. CEIC Workshop on Electronic Communication of Mathematics, Vancouver, February 2002.
25. Workshop on Spaces of Non-positive curvature, IMSc, Chennai, July 2002.
26. Workshop on Cryptology, ISI, Delhi, September 2002.
27. Fifth National meeting on Commutative Algebra and Algebraic Geometry (CAAG V), IIT, Mumbai, April 2003.
28. Workshop and conference on the Arithmetic, Geometry and Topology of Algebraic Cycles, UNAM, Morelia, Mexico, June-July 2003.
29. International Conference on Algebra and Number Theory, University of Hyderabad, December 2003.
30. Joint India-AMS meeting, Bangalore, December 2003.
31. INDOCRYPT, 2004, IMSc, Chennai, December 2004.
32. IIT Kanpur, Hacker's Meet, 2005, IIT, Kanpur, March 2005.
33. Sixth National meeting on Commutative Algebra and Algebraic Geometry (CAAG VI), IMSc, Chennai, August 2005.
34. ASIACRYPT, 2005, Taj Coromandel, Chennai, December 2005.
35. Conference on Vector Bundles and Algebraic Geometry 2006, TIFR, Mumbai, 2006.
36. International Mathematical Congress 2006, Madrid, Spain, 2006.
37. National meeting of the Ramanujan Mathematical Society, Suratkal, 2007.
38. Seventh National meeting on Commutative Algebra and Algebraic Geometry (CAAG VII), Bangalore, 2007.

39. Conference on Cycles, Motives and Shimura Varieties, TIFR, Mumbai, 2008.
40. Conference on Perspectives in Mathematics, ISI, Bangalore, 2008.
41. First Indo-Brazil Conference on Mathematics, IMPA, Rio de Janeiro, Brazil, 2008.
42. First RMS-SMF Indo-French Conference on Mathematics, 2008, IMA, Chennai, 2008.
43. Ninth National meeting on Commutative Algebra and Algebraic Geometry (CAAG IX), IIT, Chennai, 2009.
44. Second Indo-Swedish Conference on Mathematics Education, HBCSE-TIFR, Mumbai, 2010.
45. FOSSME, Workshop on Free and Open Source Computer Algebra Systems, Bhaskaracharya Pratishthan, Pune, 2010.
46. Tenth National meeting on Commutative Algebra and Algebraic Geometry (CAAG X), IISc, Bangalore, 2010.
47. Second Young Researcher's Meet, Stanford University, Stanford, USA, May 2012.
48. International Conference on Differential Geometry, Jamia Milia Islamia, New Delhi, 2012.
49. Conference on Algebraic Cycles in honour of Marc Levine, Essen, Germany 2012.
50. Conference on Algebra and Its Applications, Aligarh Muslim University, Aligarh, 2014.
51. Conference on Algebraic Cycles and Related Topics, TIFR, Mumbai, 2014.
52. Conference on Algebraic Geometry, MNCS, Manipal, 2015.
53. International Colloquium on K-Theory, TIFR, Mumbai, 6-14 January 2016.
54. Meeting on Computation and Mathematics, Central University, Jammu, 25-26 March 2016.
55. Rao endowment lecture on "Hodge Theory", Hyderabad, 9 February 2017
56. Science Academies Workshop on Algebra and Geometry, Central University, Jammu, 24-25 March 2017.
57. Inter IISER Mathematics Meet, IISER Pune, 11-12 May 2017.
58. Workshop on Computational Algebra, Manipal University, 1-3 July 2017.
59. Science Academies Workshop on Algebra and Number Theory, DAV University, Jalandhar, 8-9 Sept 2017.
60. IISER-NISER Mathematics Meet, IISER Bhopal, 7-8 July 2018.
61. Conference on Algebraic Geometry, IMA Chennai, 10-13 July 2018.
62. Conference on Local and Global Geometry, TIFR Mumbai, 1-5 October 2018.
63. Workshop on Cryptography and Number Theory, 27-28 March 2019, St Stephen's College.

Graduate-level Teaching experience (prior to IISER Mohali)

1. Lecture course on Algebraic Surfaces, July-Sept. 1989, TIFR, Bombay.
2. Lecture course on Higher dimensional geometry, April-June 1991, Univ. of Chicago, Chicago, USA.
3. Lectures on the Endomorphism ring of an Elliptic curve in NBHM Workshop on Elliptic curves, Sep. 1991, Bombay.
4. Lecture course on Homotopy theory, Nov. 1992-Apr. 1993, TIFR, Bombay.
5. Lectures on Abelian varieties in PICMA Workshop on Arithmetic Algebraic Geometry, Feb. 1993, Tehran, Iran.
6. Lectures on various topics in algebraic geometry in Instructional Workshop on Algebraic Geometry, April 1994, Panjab University, Chandigarh, India.
7. Lectures on Morse Theory in Instructional Workshop on Non-linear Functional Analysis, Jan-Feb 1997, Institute of Mathematical Sciences, Chennai, India.

8. Lectures on various topics in algebraic geometry in Instructional Workshop on Algebraic Geometry, April 1997, S. N. Bose National Centre for Basic Sciences, Calcutta, India.
9. Lecture course on Riemann Surfaces, January-April 2000, IMSc, Chennai.
10. Lecture course on Algebraic Geometry, December 2000, HBCSE, Mumbai.
11. Lecture course on Differential Geometry, January-April 2001, IMSc, Chennai.
12. Lecture course on Cryptology, January-April 2002, IMSc, Chennai.
13. Lecture course on Algebraic Topology, Sept.-Dec. 2004, IMSc, Chennai.
14. Lecture course on Commutative Algebra and Algebraic Geometry, Sept.-Dec. 2004, IMSc, Chennai.
15. Lecture course on Topics in Algebraic Geometry, in the Advanced Training School, IIT, Mumbai July 2005.
16. Lecture course on Projective Geometry, Sept.-Dec. 2005, IMSc, Chennai.
17. Lecture course on Practical Cryptosystems, in Training School on Cryptography, Theory and Practice, IMSc, Chennai July 2006.
18. Lecture course on Elliptic curves with Complex Multiplication, Caltech, Pasadena, USA, 2007.
19. Lecture course on Some Geometric Constructions, in Advanced Training School, IIT, Chennai, June 2007.
20. Undergraduate Mathematics (instructor and co-ordinator) NBHM Nurture Programme 2007, IMSc, Chennai, July 2007.
21. Undergraduate Mathematics (instructor and co-ordinator) NBHM Nurture Programme 2008, IMSc, Chennai, July 2008.
22. Lecture course on Algebra, IMSc, Chennai Aug-Nov 2008.
23. Lecture course on Functors, Monads and Programming, IMSc, Chennai Jan-Feb 2009.