

## Curriculum Vitae

### Fabrizio Catanese

Name Fabrizio Catanese  
 Date/Place of Birth March 16, 1950, in Florence (Italy)  
 Marital Status Married, six children (ages : from 20 to 41)  
 Office Address Lehrstuhl Mathematik VIII, Mathematisches Institut, Fakultät I,  
 Universität Bayreuth, 95440 Bayreuth, GERMANY  
 Nationality Italian

#### Education and Academic Qualifications

- 1968–1972: Study of Mathematics at the Scuola Normale Superiore, Pisa and at the University of Pisa
- Diploma di Licenza in Matematica della Scuola Normale (10/11/1972)
- Laurea in Matematica della Università di Pisa (Dottore in Matematica) (10/11/1972)

#### Professional Career

- 12/1972–11/1974 Post-Doc at the Scuola Normale di Pisa
- 12/1974–1976 Assistant, University Pisa
- 11/1976–10/1980 Associate Professor, University of Pisa (non tenured)
- 11/1980–03/1997 Full Professor at the University of Pisa, with Chair in Geometry
- 11/1994– 4/1997 Professore distaccato al Centro B. Segre della Accademia dei Lincei, Roma
- 1984–1996 Head of the Section of Algebra and Geometry of the Math. Department of Pisa
- 04/1997–08/2001 Professor on the Gauss Chair in Göttingen, Chair ‘Complex Analysis’
- 09/2001–09/2018 Chair Professor, Universität Bayreuth, Chair VIII ‘Algebraic Geometry’
- 10/2018 – Professor of Algebraic Geometry, Universität Bayreuth, Chair VIII.
- 2010–2024 Scholar at the KIAS (Korean Institute for Advanced Studies), Seoul.

#### Finalised job offers or appointments not accepted

- Scuola Normale Superiore, Pisa (1998 and 2001);
- 01/2001: UNESCO appoints him Director of the School of Mathematics of the I.C.T.P (International Centre for Theoretical Physics), Trieste (Italy);
- Eppes Chair, Florida State University, Tallahassee (2001).
- Many other offers were not finalized.

#### Positions as Visiting Professor for one year or one semester

- Harvard University: year 1977/78: Honorary Research Associate; Fall Term 2000, visiting professor.
- Academic Year 1981/82: Member of the Institute for Advanced Studies in Princeton (N.J.).
- Summer Term 1986: Visiting Professor at the University of California, San Diego.
- Summer Semester 1987: Visiting Professor at Columbia University, New York.
- Winter Semester 1990/91: Visiting Professor at the ETH Zürich, (holding Nachdiplom-Vorlesungen).
- Summer Semester 2001: Visiting Professor at Florida State University, Tallahassee.

**Visiting professor or scholar for shorter periods (1-3 Months)** at Utrecht University, Warwick, Bar-Ilan, Amsterdam, Barcelona, Caracas, Hannover, Bayreuth, Paris Orsay, HKUST (Hong Kong University of Science and Technology), Mittag Leffler Institut (Stockholm) (1980, 1984, 1987), ISI Torino, CIRM Barcelona, MPI Bonn (1988, 1993, 1998), SFB Göttingen, Institut H. Poincaré (Paris) (1995, 2005, 2010), ICTP Trieste (1992, 1994), MSRI Berkeley (1996, 2002, 2004, 2009,2019), RIMS Kyoto, M.I.T. (1996), Emmy Noether Institute (1999), Hong Kong University (2000), KIAS Seoul (2000, 2009, 2010, 2011), Harvard University (2000), Newton Institute (Cambridge, UK) (1994, 2002) I.H.E.S. (2006), Tokyo University (2009), Fudan University, Shanghai (2009), Centro De Giorgi, SNS Pisa (2008, 2008, 2012).

#### Distinguished Visiting Professor

- at Stanford University (1996),
- University of California, Irvine (2001),

- Fred Gehring distinguished visiting professor University of Ann Arbor, January 2006.

**Scientific Councils before 2002:** GNSAGA (Algebra and Geometry Panel) of the Consiglio Nazionale delle Ricerche, 1983–1997; Scientific Council of the CIME (Centro Internazionale Matematico Estivo), Italy, 1990–2001; Council of the European Mathematical Society, 1992–1994; Council of Europroj (1991/92); Scientific Committee of the MaxPlanck Institut für Mathematik in Bonn (1994–1999); Advisor of the Minerva Stiftung, for the German Israeli Foundation(1998–2000). Peer Reviewer of the NSF (National Science Foundation, USA) (1978–), of the N.S.A. (National Security Agency, USA), Referee of the Italian MURST (Ministry of University, Research and Technology) and CINECA, of the German DFG (German Research Council), of the Portuguese NSF, of the Alexander von Humboldt Foundation, for the Newton Institute, Austrian Science Fund (FWF), GIF, and others, Program Committee of the European Congress of Mathematics, Barcelona 2000.

**Awards before 2002:**

- Prize of the Italian Mathematical Society (1974),
- Bartolozzi Prize of the Italian Mathematical Society (1984),
- Golden Medal of the Società Italiana delle Scienze (conferred by the President of the Republic in 1993),
- Ordine del Cherubino of the University of Pisa (1995).

**Academies memberships, Recent awards** (see the track record for the editorial activity).

- Socio corrispondente della Accademia Nazionale dei Lincei, since 1998.
- Ordentliches Mitglied der Akademie der Wissenschaften Göttingen, since 2000.
- Socio Nazionale della Accademia Nazionale dei Lincei, since 2013
- Member of the Academia Europaea, since 2015
- The Conference ‘Perspectives on Algebraic Varieties’, September 6-11, 2010 - Levico Terme (Trento, Italy), with about 200 participants, was dedicated to the 60-th birthday of F. Catanese, C. Ciliberto and A. Verra.
- Volume 54, n. 8 of Science in China (2011), pp. 1521-1814, special issue, contains articles dedicated to Fabrizio Catanese on the occasion of his 60-th birthday. A nicer edition was published by Springer Verlag.
- The Conference ‘Algebraic Geometry’, Bayreuth 12-14 /03/2015, was held in honour of his 65-th birthday (80 participants)
- The Conference for his 70-th birthday, planned March 23 - 28 2020, at Palazzo Feltrinelli, Gargnano (Lago di Garda) has been postponed to September 2022 because of Covid.
- A volume of the Bollettino Unione Matematica Italiana is being edited, on the occasion of his 70th birthday.

**Plenary addresses before 2002:**

- CNR Congress Torino 1984;
- Congress of the Italian Mathematical Union, Catania 1991;
- Congress of the European Mathematical Society in Paris 1992.

**Lecture Series before 2002:** Institute for Scientific Exchange Turin 1984; INdAM (Istituto Nazionale di Alta Matematica) 1983 and 1985; CIME (Centro Internazionale Matematico Estivo) 1985 and 2003; Special Lectures, Universitat de Barcelona (1987), Special Lectures, Graduiertenkolleg Bayreuth 1992; Arithmetic Geometry at ICTP Trieste (International Centre for Theoretical Physics) 1992; Special Lectures, GraduiertenKolleg Bochum 1995; Stanford 1996 (Distinguished Visiting Professor); Magnus Lectures, Fort Collins 1996.

**Organisation of Special semesters and Conferences before 2002:** Organiser of over 37 Conferences, Summer Schools, and a special Semester on ‘Topology of Algebraic Varieties’ at the MPI Bonn, 1998, together with Friedrich Hirzebruch and Mina Teicher.

Since 1993 he has regularly organised, every 2 year, a workshop at the MFO Oberwolfach, first in collaboration with C. Okonek, A. Beauville, E. Looijenga, then as main organiser with Y. Kawamata, G. Tian, E. Viehweg, then with C. Hacon, Y. Kawamata, B. Siebert.

**Publication Summary:** Editor of 11 Books, author of over 170 publications, with over 4578 Citations on Google Scholar (Hirsch Index = 39); 2030 citations on MathSciNet of the American Mathematical Society, 9600 Reads on Research Gate.

**Research and Ph.D. students:** (more than 20 are currently active mathematicians and professors in several Universities in Italy, France, England, Germany).

Francesco Capocasa, Rita Pardini, Antonio Bartalesi, Alessio Corti, Barbara Fantechi, Marco Manetti, Lorenzo Ramero, Francesca Tovena, Gianfranco Casnati, Francesco Zucconi, Sandro Manfredini, Paola Frediani, Michele Grassi, Roberto Pignatelli, Marco Franciosi, Elena Rubei, Cecilia Trifogli, Alberto Canonaco, Christian Liedtke, Christian Böhning, Sönke Rollenske, Matteo Penegini, Wenfei Liu, Yi-fan Chen, Mario Chan, Binru Li, Songbo Ling, Daniel McKenzie, Luca Cesarano, Andreas Demleitner.

Some postdocs and assistants supervised: M. Seppala, P. Oliverio, M. Salvetti, F. Polizzi, G. Borrelli, F. Tonoli, P. De Poi, F. Perroni, E. Mistretta, M. Lönne, M. Murakami, D. Zuddas, Y. Cho, Davide Frapporti, Stephen Coughlan,..

#### **Leadership of research projects:**

- Leader of the Research Project “Algebraic Geometry” in Pisa (1982–1998);
- Coordinator of the Pisa node of EEC Network Algebraic Geometry in Europe (1990–1997);
- Codirector of the DFG Graduiertenkolleg “Gruppen und Geometrie”, Göttingen (1999–2001);
- Antragsteller of the DFG Priority Programme “Globale Methode in der komplexen Geometrie” (2000–2006) and leader of two research projects;
- Coordinator of the Bayreuth node of the EEC Research program EAGER (2001–2004);
- Coordinator of 2 VIGONI DAAD Exchange Programs (1998–1999, 2005–2006);
- Coordinator of the DFG Forschergruppe 790 “Classification of Algebraic Surfaces and Compact Complex Manifolds” (2007–2013).
- Principal Investigator in the ERC Advanced Grant 34028 TADMICAMT , (4/2014– 3/2020)

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#### **Invitations, conferences and lecture courses**

- Invited plenary lectures at more than 120 Conferences in the last 10 years, e.g., in Paris, Hannover, Schiermonnikoog, Tokyo, Pohang, Seoul, Berkeley, Pisa, Levico Terme, Trento, CIRM Luminy, Rennes, Cordoba (Argentina), Oxford, Cambridge, Warwick, London, Cetraro, Göttingen, Torino, Madrid, Gokova, Montreal, Moscow, . . . ; recent birthday Conferences, Catanese 60 (Levico, 2010), Hulek 60 (Hannover, 2012), Kulikov 60 (Moscow, 2012), Kawamata 60 (Tokyo, 2013), Campana 60 (Luminy, 2013), Siu 70 (Seoul, 2013) . . .
- Plenary addresses at the International Mediterranean Congress of Mathematics, Almeria 2005 (with Zelmanov and Quarteroni),
- Plenary address at the Joint Meeting of DMV and U.M.I., Perugia, June 2007,
- Address at the ESOF (European Science Open Forum), Torino 2010,
- Kinoshita Conference of Japanese Algebraic Geometers (October 2011).
- Lecture courses at the CIME 2003,
- at the Summer School of the European Math. Society, Eilat 2005,
- at the Centre Émile Borel, Institut Henri Poincaré Paris, November 2005 (Special Trimester on Real Algebraic Geometry),
- Winter School at the KIAS (Korean Institute for Advanced Studies) March 2010,
- Intensive Ph.D. courses at the Università di Udine (September 2011 and December 2018),
- invited lecture course at the Lebesgue Center (Universities of Nantes-Rennes-Angers-Brest) (2014).
- Colloquio De Giorgi, Scuola Normale di Pisa (feb.2013).
- - Takagi Lectures, University of Tokyo (2015),
- Plenary address at the Meeting of the Catalan, Spanish, Swedish Mathematical Societies , Umea, Sweden (2017),
- Series of Lectures on ‘Moduli spaces algebraic surfaces’, Banach Centre Conference on ‘Modern and Classical Aspects on Algebraic Surfaces, 22 - 28 April 2018, Cracow
- Plenary address at the Giornata INdAM (Istituto Nazionale di Alta Matematica, Cagliari, May 2018.
- Plenary address at the London Mathematical Society Regional Meeting und Workshop ‘Galois covers, Grothendieck- Teichmüller theory and Dessins d’enfants’ , Leicester UK , June 2018.
- - CIRM TIME Lectures, ‘Curves and Surfaces’, The  $P_{12}$ -theorem, Levico Terme (September 2019).

#### **Organisation of Special semesters and major Conferences in the last years**

- Organiser or in the scientific committee of over 30 Conferences and Summer Schools (last 10 years).
- Main Organiser of a Special Trimester on ‘Groups and Algebraic Geometry’ at the Centro De Giorgi, Scuola Normale Superiore di Pisa (Fall 2008), with A. Beauville, F. Bogomolov, F. Grunewald, J. Kollár, R. Pardini.
- Main organiser of workshops at the MFO Oberwolfach on the topic “Complex algebraic geometry” in the years 2003, 2005, 2007, with Y. Kawamata, G. Tian, E. Viehweg, in 2009, 2011 with Y. Kawamata, B. Siebert, G. Tian, in 2013 with C. Hacon, Y. Kawamata, B. Siebert, and in 2018 ‘Subgroups of Cremona groups’, with I. Cheltsov, J. Deserti, Y. Prokhorov.
- Main organizer of the final Conference of the DFG Forschergruppe 790, ‘Classification of algebraic varieties and related topics’. Cetraro Sept. 8-15 2013, other organizers: Katzarkov, Kawamata, Pignatelli, Tian, Verra.
- Main organizer of the ERC Advanced Grant TADMICAMT Conference ‘Classification and Moduli Theory of Algebraic Varieties’, Ischia, September 10-17, 2017, other organizers: Ingrid Bauer, Yujiro Kawamata, (the Conference was co-sponsored by the Japanese Kakenhi Grant).
- Main organizer of the final Conference of the ERC Advanced Grant TADMICAMT, ‘Differential, Algebraic and Topological Methods in complex Algebraic Geometry’, Cetraro, September 6-15 2018, with more than 100 participants, other organizers: Ingrid Bauer, Davide Frapporti, Yujiro Kawamata, (the Conference was co-sponsored by Bayreuth University and the Japanese Kakenhi Grant).

#### **Advisory boards, international committees and positions**

- Fachbeirat of the MPI für Mathematik in Bonn (2000–2006), Advisory Board of the Simion Stoilow Institut in Bucharest (1999–2005), Advisory Board of the KIAS in Seoul (2001–2006), Scientific Committee of the ‘Latin American Congress of Algebraic Geometry and its applications’ (2009–present).
- Director of the CIRM Trento, Centro Internazionale di Ricerca Matematica, of the FBK, Fondazione Bruno Kessler (11/2005–11/2011). President of the Advisory Board of the CIRM Trento, FBK, (12/2011–present).
- KIAS Scholar (Korean Institute for Advanced Studies, Seoul), 2011-2021.
- ‘Excellence Initiatives’ Guest Professorship for 6 months offered from Göttingen University, August 2011

#### **Visiting professorships**

Visiting professor at the Universitat De Catalunya Barcelona (2009), the Institute H. Poincaré (Paris) (2010), the MSRI (Mathematical Sciences Research Institute) Berkeley (2009), the KIAS (Korean Institute for Advanced Studies) Seoul (2009, 2010, 2011, 2012), the I.H.E.S. (Institut des Hautes Études Scientifiques) Bures sur Yvette Paris (2006), Tokyo University (2009), Fudan University, Shanghai (2009), Centro De Giorgi, SNS Pisa (2008, 2012) and Fred Gehring distinguished visiting professor University of Ann Arbor, January 2006.

#### **Membership in editorial boards**

1) Journal of Algebraic Geometry (distributed by AMS), 1991–2011. 2) Rendiconti del Seminario Matematico della Università di Padova, 1990–2011; since 2011 member of the Board of Trustees. 3) Portugaliae Mathematica, 1998–2004. 4) Rendiconti Lincei — Matematica e Applicazioni, since 1998. 5) European Math. Soc. Lecture Note Series, Subseries of Springer’s Lecture Notes in Math., 1999–2004. 6) Italian Mathematical Society, Subseries of Springer’s LNM, since 2003. 7) Annales de la Faculté des Sciences de Toulouse, 2005–2011. 8) Rivista di Matematica della Università di Parma (advisory board), since 2009. 9) Journal of Algebraic Statistics, since 2009. 10) Journal of Mathematics and Applications, Rzeszow, since 2012. 11) Complex Manifolds, De Gruyter Open, since 2013. 12) Editorial Board of SISSA-Springer Series, since 2016.

#### **Major contributions to early careers of excellent researchers**

Advisor, in the last years, of Christian Böhning Sönke Rollenske, Wenfei Liu, Matteo Penegini, Yifan Chen, Songbo Ling, Mario Chan, Binru Li, Luca Cesarano, Andreas Demleitner.

Rollenske became Leader of an Emmy Noether Nachwuchsprogram, then Professor in Bielefeld, then Full Professor in Marburg, Christian Böhning is associate professor in Warwick University, Wenfei Liu is full professor in Xiamen University, Matteo Penegini is associate professor at the University of Genova, Yifan Chen is associate professor at the Peking University for Aerospace, Michael Lönne became Professor in Hannover and then at Bayreuth University. Roberto Pignatelli (Professor, Trento University), Fabio Tonoli (Lecturer Università Bocconi, Milano), Ernesto Mistretta (Ricercatore, Padova University), Piero De Poi (Professor, Università di Udine), Thomas Dedieu (Professor, Université Toulouse), Fabio Perroni (Professor, Università di Trieste), Masaaki Murakami (associate professor at Kagoshima University), Solomon Vishkautsan (Lecturer at Tel-

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Hai Academic College in Israel), Daniele Zuddas (Professor, Università di Trieste), got permanent positions in Italian and French Universities, after working in the Bayreuth research group.

Igor Krylov and Yonghwa Cho are Research Fellows at KIAS Seoul, dr. Binru Li became Postdoc at the Shanghai Centre for Mathematical Sciences, Fudan University, Songbo Ling at Peking University, Mario Chan at KIAS and then at Taiwan University. Stephen Coughlan and Davide Frappanti, temporary lecturers at Bayreuth University, shall soon obtain the Habilitation to be a professor at Bayreuth University, thereby getting the position of Privat Dozent.