Curriculum Vitae Professor Dr Claire Voisin

Name: **Claire Voisin**

Born: **4 March 1962**

Research Priorities: Complex algebraic geometry, algebraic varieties, Hodge theory, Kähler manifolds, mirror symmetry, Kodaira's theorem

Claire Voisin is a French mathematician. She focuses on complex algebraic geometry and has solved two previously insurmountable problems. She disproved Kodaira's theorem and solved the Kodaira problem. She also proved US mathematician Mark Green's theories about the syzygies of canonical curves.

Academic and Professional Career

2015 - 2020	Professor, Collège de France, Paris, France
2012 - 2014	Professor, École Polytechnique, Palaiseau, France
1996	Visiting Professor, Sapienza University of Rome, Rome, Italy
since 1995	Research Director, Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG), Paris, France
1989	Habilitation
since 1986	Researcher, Centre national de la recherche scientifique (CNRS), Paris, France
1986	Doctorate
1981 - 1986	Degree, École normale supérieure de jeunes filles, Sèvres, France

Functions in Scientific Societies and Committees

since 2014	Co-Editor, Journal de l'Ecole polytechnique

2013 - 2014	Editor, Forum of Mathematics Sigma
since 2013	Member, Scientific Board, Fields Institute, Toronto, Canada
since 2012	Editor, Communications in Analysis and Geometry
2012	Member, Senior-Jury Institut Universitaire de France (IUF), France
since 2011	Editor-in-Chief, Publications Mathématiques de l'IHÉS
2011 - 2014	Member, Scientific Advisory Board, Centre International de Rencontres Mathématiques (CIRM), Marseille, France
2011	Member, Senior-Jury Institut Universitaire de France (IUF), France
since 2009	Editor, Journal de Mathématiques Pures et Appliquées
2009 - 2012	Member, Blaise Pascal Research Chair, Fondation de l'École normale supérieure, Paris, France
2009 - 2012	Member, Scientific Advisory Board, Oberwolfach Research Institute for Mathematics (MFO), Oberwolfach, Germany
since 2007	Editor, Communications in Contemporary Mathematics
2007 - 2011	Editor, Publications Mathématiques de l'IHÉS
2007	Member, Junior-Jury Institut Universitaire de France (IUF), France
2006	Member, Junior-Jury Institut Universitaire de France (IUF), France
2004 - 2007	Editor, J. Differential Geometry
2004 - 2007	Editor, Journal of Algebraic Geometry
1999 - 2004	Editor, Annales de l'ENS
1998 - 2014	Editor, Journal of the European Mathematical Society (JEMS)
since 1998	Co-Editor, Compositio mathematica
1997 - 2004	Editor, Mathematische Zeitschrift
1996 - 2009	Editor, Duke Math. Journal

Project Coordination, Membership in Collaborative Research Projects

2012 - 2014	Host, Project "Lagrangian fibrations on irreducible symplectic manifolds. Deformations of Lagrangian subvarieties and affine structures", German Research Foundation (DFG), Germany
2017 - 2022	Cooperation Partner, Project "Syzygies and moduli", DFG, Germany

Honours and Awarded Memberships

2024	Crafoord Prize in Mathematics, The Royal Swedish Academy of Sciences and Crafoord Foundation, Lund, Sweden
since 2022	Member, American Academy of Arts and Sciences, USA
since 2021	Member, Royal Society, UK
2019	L'Oréal-UNESCO for Women in Science Award, United Nations Educational, Scientific and Cultural Organization (UNSECO) and Fondation L'Oréal, Clichy, France
2017	Shaw Prize in Mathematical Sciences, Shaw Prize Foundation, Hongkong, China
2016	Gold Medal, CNRS, France
2015	Heinz Hopf Prize, Eidgenössische Technische Hochschule (ETH) Zürich, Zürich, Switzerland
since 2014	Member, Academia Europaea
since 2012	Honorary Member, London Mathematical Society, London, UK
since 2011	Member, Accademia Nazionale dei Lincei, Italy
since 2010	Member, Académie des sciences, Paris, France
since 2009	Member, German National Academy of Sciences Leopoldina, Germany
2008	Clay Research Award, Clay Mathematics Institute, Peterborough, USA
2007	Ruth Lyttle Satter Prize, American Mathematical Society, USA
since 2006	Member, Istituto Lombardo Accademia di Scienze e Lettere, Milan, Italy
2006	Silver Medal, CNRS, France
2003	Sophie Germain Prize, Académie des Sciences, Paris, France
1996	Servant Prize, Académie des Sciences, Paris, France
1992	European Mathematical Society Prize, European Mathematical Society (EMS)
1988	Bronze Medal, CNRS, France

Research Priorities

Claire Voisin is a French mathematician. She focuses on complex algebraic geometry and has solved two previously insurmountable problems. She disproved Kodaira's theorem and solved the Kodaira problem. She also proved US mathematician Mark Green's theories about the syzygies of canonical curves.

She is considered a leader in the field of complex algebraic geometry. This field of mathematics investigates the structural characteristics of one, two and multidimensional objects using calculations and equations. Claire Voisin found the solution to two long unresolved problems in algebraic geometry: She disproved the famous theorem of Japanese mathematician Kodaira Kunihiko that three-dimensional and multidimensional objects can be investigated using "algebraic varieties". In doing so, Claire Voisin also succeeded in providing a partial proof and solution to the theories of US mathematicians Mark Green and Spencer Bloch. Her book about British mathematician William Hodge's theory, "Hodge Theory and Complex Algebraic Geometry", is now considered the standard reference.