Xavier Roulleau

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Work Address: Institut de Mathématiques de Marseille, UMR 7373 du CNRS, 39, rue F. Joliot Curie, 13453 Marseille Cedex 13		
Citizenship	French.	
Curent Position	Sep. 2016 – Now, Full professor (PR2), Aix-Marseille University, France	
Past Experience	 Sep. 2012 – Aug. 2016, Maître de conférences (Assistant Professor), University of Poitiers, France Sep. 2011 – Aug. 2012, Postdoctoral Research Fellow at the Instituto Superior Tecnico of Lieben (Portugal) 	
	of Lisbon (Portugal). Sept. 2010 – Aug. 2011, Postdoctoral Research Fellow at the University of Strasbourg (France)	
	Nov. 2008 – Aug. 2010, Postdoctoral Research Fellow (JSPS) at the University of Tokyo (Japan)	
	Feb. 2008 – Sept. 2008, Postdoctoral Research Fellow at the Max-Planck Institute of Bonn (Germany).	
Diploma and Titles	Habilitation à Diriger des Recherches, Defended on November 20, 2015 in Poitiers University (France).	
	Ph.D. , 2007 : Thesis title : "L'application cotangente des surfaces de type general". Defended on November 16, 2007 at the University of Angers (France).	
$Professional \ activities$	Since 2020, vice–Director of the Institut Archimède (former labex) of mathematics and informatics in Aix-Marseille University.	
	Member of the Scientific Counsel of the Institute of Mathematics of Marseille	
	Consultative member of the Advisory Board of the Institute of Mathematics of Marseille	
	Co-organiser of the Complex Geometry seminar in Marseille	
	Responsable of the organisation of the Master II for the year 2019-2020 on the theme "Algebraic Geometry and Arithmetic".	
	Co-organiser of the Thematic Month "Complex Geometry" in CIRM (Luminy) during February 2019. One week Master Class followed by 4 weeks of conferences on : Week 1. Singular Metrics in Khlerian Complex Geometry Week 2. Birational Geometry and Hodge Theory Week 3. Entire Curves, Rational Curves and Foliations Week 4. Ball Quotient Surfaces and Lattices	
Research Interests	Algebraic geometry: Ball quotient surfaces, Quaternionic Shimura surfaces, K3 surfaces, Surfaces of general type, Positivity, Irregular Surfaces, Surfaces with $p_g = 0$, bounded nega- tivity, cubic threefolds.	
Selected Recent Published Papers	 Construction of Nikulin configurations on some Kummer surfaces and applications, With A. Sarti, Math. Ann. 373 (2019), no. 1-2, 597–623. On generalized Kummer surfaces and the orbifold Bogomolov-Miyaoka-Yau inequality Trans. Amer. Math. Soc. 371 (2019), no. 11, 7651–7668. 	
	3. A pair of rigid surfaces with $p_g = q = 2$ and $K^2 = 8$ whose universal cover is not the bidisk Avec F. Polizzi et C. Rito, to appear in IMRN	
	4. On explicit Schoen surfaces with Carlos Rito and Alessandra Sarti, Algebraic Geometry 6 (4) 2019, 410–426	

	5. Curves with low Harbourne constants on Abelian and Kummer surfaces, Rend. Circ. Mat. Palermo. (2) 67 (2018), no. 3, 481–491.
	6. Chern slopes of simply connected complex surfaces of general type are dense in [2,3] with Giancarlo Urzua, Annals of Mathematics, 182 (2015), 287-306
	 On Schoen Surfaces with C. Ciliberto and M. Mendes Lopes, Comm. Math. Helvetici, 90 (2015), no. 1, 59–74
	8. Canonical surfaces with big cotangent bundle with E. Rousseau. Duke Math. J. 163 (2014), no. 7, 1337–1351
	 Negative curves on algebraic surfaces with Th. Bauer, B. Harbourne, A. L. Knutsen, A. Küronya, S. Müller-Stach, T. Szemberg. Duke Math. Journal 162 (2013), 1877–1894.
Recent	Porto university
research	two one month stays, March and July 2019, work with Carlos Rito
stays	Poitiers university
	one week, June 2019, work with A. Sarti
	Lille university
	two weeks, March and May 2018, work with D. Markouschevitch
Invitations of	Carlos Rito
researchers	one week in January 2020 and one week in December 2017
researchers	Vincent Koziarz
	One week, January 2019
	Alessandra Sarti
	4 days, October 2018
	Vincent Koziarz
	One week, October 2017
	Francesco Polizzi
	One week, May 2017
	Ciro Ciliberto One week, February 2017
	One week, reorairy 2017
Recent	Xiamen University, China, September 2018
International	Algebraic Surfaces and Related Topics
Conferences	Cetraro, Italy, September 2018
$as \ invited$	Differential, Algebraic and Topological Methods in Complex Algebraic Geometry
speaker	St Petersbourg, Russia, May 2018
	Automorphic Forms and Algebraic Geometry
	Cracow, Poland, April 2018
	Modern and Classical Aspects on Algebraic Surfaces CIRM, Luminy, December 2017
	Algebraic Geometry and Complex Geometry
	Banff, Canada, March 2017
	New Trends in Arithmetic and Geometry of Algebraic Surfaces
Recent talks	Porto March 2019
in Seminars	Rennes January 2019
	Lille June 2018
	Angers Mars 2018
	Berlin February 2018
	Montpellier November 2017
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	Strasbourg October 2017
Technical Skills	Programing in MAPLE and MAGMA, basics of SAGE.