

Riccardo Moschetti

Curriculum vitae

sites.google.com/site/moschettiriccardo



Personal data

Full name Riccardo Moschetti
Year of birth 1987
Nationality Italian

Positions

March 2020 - current Postdoc at the University of Pavia, Italy
January 2019 - December 2019 Postdoc at the University of Pavia, Italy
September 2015 - December 2018 Postdoc at the University of Stavanger, Norway
September 2017 - March 2018 Visiting position at the Università Statale di Milano, Italy
September 2016 - December 2016 Visiting position at the Max-Planck institute of Bonn, Germany

Research interests

- Derived categories of coherent sheaves and Fourier-Mukai functors
- Monodromy of projective varieties, Hurwitz moduli spaces
- Stability conditions on triangulated categories and Donaldson-Thomas invariants
- Problems concerning Azumaya algebra and twisted derived categories

Publications and Preprints

In preparation *Perfect complexes of twisted sheaves and dg-enhancements*, Francesco GENOVESE, Riccardo MOSCHETTI, Giorgio SCATTAREGGIA
Preprint *Z/rZ -equivariant covers of P^1 with moving ramification*, Carl LIAN and Riccardo MOSCHETTI
arXiv:2105.04586
Preprint *A descent criterion for equivalences between equivariant derived categories*, Francesco AMODEO, Riccardo MOSCHETTI and Mattia ORNAGHI

- arXiv:1810.13290
- Accepted *Hyperelliptic odd coverings*, Riccardo MOSCHETTI, Gian Pietro PIROLA
arXiv:2011.12159, accepted in Israel Journal of Mathematics
- Accepted *Alternating Catalan numbers and curves with triple ramification*, Gavril FARKAS, Riccardo MOSCHETTI, Juan Carlos NARANJO and Gian Pietro PIROLA
to appear in Annali della Scuola Normale Superiore di Pisa - 10.2422/2036-2145.201909_009
- June 2021 *Monodromy group of projections of hypersurfaces*, Maria Gioia CIFANI, Alice CUZZUCOLI, Riccardo MOSCHETTI
Annali di Matematica Pura e Applicata - 10.1007/s10231-021-01132-3
- September 2020 *Equivalence of K3 surfaces from Verra threefolds*, Grzegorz KAPUSTKA, Michał KAPUSTKA and Riccardo MOSCHETTI
Kyoto Journal of Mathematics - 10.1215/21562261-2019-0059
- December 2018 *The derived category of a non generic cubic fourfold containing a plane*, Riccardo MOSCHETTI
Mathematical Research Letters 25 (2018) - 10.4310/MRL.2018.v25.n5.a8
- December 2018 *On coherent sheaves of small length on the affine plane*, Riccardo MOSCHETTI and Andrea RICOLFI
Journal of Algebra 516 (2018) - 10.1016/j.jalgebra.2018.09.028
- April 2017 *Non Uniform Projections of Surfaces in \mathbb{P}^3* , Alice CUZZUCOLI, Riccardo MOSCHETTI and Maiko SERIZAWA
Le matematiche LXXII (2017) - 10.4418/2017.72.2.8
- February 2017 *Hurwitz spaces and liftings to the Valentiner group*, Riccardo MOSCHETTI and Gian Pietro PIROLA
Journal of Pure and Applied Algebra (2017) - 10.1016/j.jpaa.2017.03.002
- December 2014 *Fourier-Mukai functors and applications to quadric fibrations* (Ph. D. thesis), Riccardo MOSCHETTI
sites.google.com/site/moschettiriccardo/Moschetti_PhDThesis.pdf
- September 2013 *Fourier-Mukai functors and perfect complexes on dual numbers*, Francesco AMODEO and Riccardo MOSCHETTI
J. Algebra 437 (2015) - 10.1016/j.jalgebra.2015.04.020

Organized conferences

- April 2018 *Workshop: Sheaves, Curves and Moduli, Stavanger*
Part of the local organizing committee
- September 2015 *Workshop: Derived Categories and Moduli Spaces, Stavanger*
Part of the local organizing committee

Teaching activity

2021 - current	Teacher for the PhD course "Inequalities between invariants of varieties" Joint PhD Program in Mathematics Milano Bicocca - Pavia -INdAM
2020 - current	Teacher for "Istituzioni di algebra", Master degree University of Pavia, Department of Mathematics
2019 - 2020	Exercise section for "Geometria e Algebra", Bachelor degree University of Pavia, Faculty of Engineering
2016 - 2017	Teacher for "Abstract algebra", Bachelor and Master degree University of Stavanger, Faculty of Science and Technology
2012 - 2014	Exercise section for "Matematica" (General mathematics), Bachelor degree University of Pavia, Faculty of Science
2012 - 2014	Tutor for "Geometria e Algebra" (Linear algebra and Geometry), Bachelor degree University of Pavia, Faculty of Engineering
2009 - 2011	Tutor for "Geometria I" (Linear algebra and Geometry), Bachelor degree University of Milan, Department of Mathematics

Education

October 2011 - December 2014	PhD in Mathematics at University of Pavia
Date of defence	10/12/2014
Place of defence	Università degli Studi di Pavia
Thesis title	Fourier-Mukai functors and applications to quadric fibrations
Advisors	Alberto Canonaco and Paolo Stellari
October 2009 - June 2011	Master degree in Mathematics at University of Milan
Thesis title	Categorie derivate e geometria dei fourfolds cubici
Advisors	Paolo Stellari
Grade	110/110 cum laude
October 2006 - October 2009	Bachelor degree in Mathematics at University of Milan
Thesis title	Orientazioni di una varietà topologica e dualità di Poincaré
Advisors	Cristina Turrini
Grade	110/110 cum laude

Selected talks

December 2020	<i>Hyperelliptic Odd Coverings</i> , University of Pavia, Italy
May 2019	<i>Monodromy of projections of hypersurface</i> , University of Bergen, Norway

June 2018	<i>Equivalence of K3 surfaces from Verra threefolds</i> , Joint Algebraic and Differential Encounters, University of Milan Bicocca, Italy
May 2018	<i>On coherent sheaves of small length on the affine planes</i> , Students seminar, University of Warwick, England
May 2018	<i>Equivalence of K3 surfaces from Verra threefolds</i> , HU University of Berlin, Germany
February 2018	<i>On coherent sheaves of small length on the affine plane</i> , University of Milan
November 2017	<i>Some application of focal loci</i> , University of Pavia, Italy
December 2016	<i>Twisted derived categories in the case of cubic fourfolds containing a plane</i> , Seminari di Natale 2016, University of Milan, Italy
November 2016	<i>The derived category of a cubic fourfold containing a plane</i> , University of Bergen
November 2016	<i>Space of non uniform points of projections</i> , Nasjonalt algebraemøte 2016, University of Oslo, Norway
July 2016	<i>Hurwitz spaces and liftings to the Valentiner group</i> , weekly seminars, University of Pavia
May 2016	<i>La categoria derivata di un cubic fourfold contenente un piano</i> , Giornate di Geometria Algebrica ed Argomenti Correlati XIII, University of Catania, Italy
March 2016	<i>Derived category of a non generic cubic fourfolds containing a plane</i> , The Stavanger Algebraic Geometry Seminar, University of Stavanger
September 2015	<i>The scheme of dual numbers and the description of its derived category</i> , Friday Colloquium in Mathematics and Physics, University of Stavanger
June 2015	<i>Fourier-Mukai functors and indecomposable complexes on dual numbers</i> , GAeL 2015, Leuven
March 2015	<i>Fourier-Mukai functors and perfect complexes on dual numbers</i> , Algebraic Geometry Seminar, University of Warsaw
November 2014	<i>Working seminar of University of Milano</i> , Department of Mathematics F.Enriques, University of Milan.
December 2013	<i>Fourier-Mukai functors and perfect complexes on dual numbers</i> , part 2. Department of Mathematics F.Enriques, University of Milan.

Languages

English	Fluent - C1 level
Italian	Mothertongue
German	Basic Knowledge - A2 level

Other activities

2016 - current	Reviewer for AMS-math: www.ams.org/mr-database
2012 - current	Rewiever for Zentralblatt-math: www.zbmath.org
2012 - current	Member of GNSAGA (Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni) of INDAM (Istituto Nazionale di Alta Matematica, i.e., National Institute of High Mathematics).

- 2018 - current Member of UMI (Unione Matematica Italiana).
- 2012 - current Member of "Curvilinea": an organization for the popularization of mathematics:
www.curvilinea.org
I organized various projects concerning the popularization of mathematics, in particular with students of the exhibition of "Mathematics of Planet Earth 2013" in Paris, "Rette... Rotonde?!" in Pavia in which was exhibited the original model of the Pseudosphere of Beltrami, and it has been now given the honourable mention in the "Premio Guido Castelnuovo 2017" from Unione Matematica Italiana, and finally the honourable mention of the project "Fly faster? Fly shorter!" in the competition "Mathematics of Planet Earth 2017".
- 2010 - 2015 Collaboration with the inter-university research center for communication and informal learning in mathematics "Matematita", providing images and videos:
www.matematita.it/materiale
I helped with the organization of different exhibitions, such as MatelInItaly, in Milano Triennale. I designed some digital videos to visualize the geometry of abstract constructions. Here I improved my skill of computer programming with different languages, as C, javascript, python, matlab and php.
- 2010 - 2015 Collaboration with the magazine "XlaTangente" (both on-paper and online release): www.xlatangente.it

Dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".