

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.1 posto/i di Ricercatore a tempo determinato in tenure track (RTT)
per il settore concorsuale 01/A2 - GEOMETRIA E ALGEBRA ,
settore scientifico-disciplinare MAT/03 - GEOMETRIA
presso il Dipartimento di Dipartimento di Matematica Federigo Enriques,
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Riccardo Moschetti CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MOSCHETTI
NOME	RICCARDO
DATA DI NASCITA	12/03/1987

TITOLI

Abilitazione scientifica Nazionale come professore universitario di Seconda Fascia nel Settore Concorsuale 01/A2 - GEOMETRIA E ALGEBRA. Valida dal 02/10/2022 al 02/10/2033

TITOLO DI STUDIO

October 2009 - June 2011, Master degree in Mathematics at University of Milan, Thesis title: "Categorie derivate e geometria dei fourfolds cubici", Advisor: 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, Advisor: Cristina Turrini, Grade: 110/110 cum laude

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

October 2011 - December 2014, PhD in Mathematics and Statistics at University of Pavia, defended on 10/12/2014, Thesis title: "Fourier-Mukai functors and applications to quadric fibrations", Advisors: "Alberto Canonaco and Paolo Stellari"

CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI

July 2021 - Current: RtdA at the University of Turin, Italy
March 2020 - July 2021: 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

INTERESSI DI RICERCA

- Derived categories of coherent sheaves and Fourier-Mukai functors. Problems concerning Azumaya algebra and twisted derived categories in particular in the context of cubic hypersurfaces. Stability conditions on triangulated categories.
- K3 surfaces and Enriques surfaces, from the lattice theoretical point of view and derived categories.
- Monodromy of projective varieties, Hurwitz moduli spaces, enumerative problems on Hurwitz spaces and Donaldson-Thomas invariants.

ATTIVITÀ DI FORMAZIONE

March 2022 - Course Quality teaching in presence and at a distance, evaluation and inclusion - <https://best.it/badge/show/1894>

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

- 2024, Teacher for the PhD course "Topics in algebraic geometry", University of Turin PhD program
- 2022 - current, Exercise sessions for "Geometria", University of Turin, Department of Physics, Course of Ottica e Optometria
- 2021 - current, Exercise sessions for "Geometria B" (Linear algebra and Geometry), University of Turin, Department of Mathematics
- 2021, Teacher for the PhD course "Inequalities between invariants of varieties", Joint PhD Program in Mathematics Milano Bicocca - Pavia -INdAM
- 2020 - 2021, Teacher for "Istituzioni di algebra", Master degree, University of Pavia, Department of Mathematics
- 2019 - 2020, Exercise sessions 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 sessions 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

STUDENTI DI TESI

July 2023, Bachelor thesis, Fabrizio Fodde, University of Turin

DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

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

REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

- July 2022, Principal investigator for the project “Algebra, geometria, logica, didattica”, Fondi ricerca locale linea B, University of Turin

ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI

- Membro del PRIN 2022 - 2022L34E7W “MODULI SPACES and BIRATIONAL GEOMETRY”
- Principal investigator for the project “Numerical invariants of nodal Enriques surfaces”, Funded by Indam - GNSAGA

ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

Congressi e convegni nazionali e internazionali

- June 2023: *The non-degeneracy invariant of Enriques surfaces*, Algebraic Geometry Genova-Nice-Torino meeting, Genova, Italy
- May 2023: *The non-degeneracy invariant of Enriques surfaces*, Refined invariants in Moduli Theory, SISSA, Italy
- October 2021: *Hyperelliptic Odd Coverings (and more)*, GTM Workshop at the University of Turin, Italy
- June 2018: *Equivalence of K3 surfaces from Verra threefolds*, Joint Algebraic and Differential Encounters, University of Milan Bicocca, Italy
- December 2016: *Twisted derived categories in the case of cubic fourfolds containing a plane*, Seminari di Natale 2016, University of Milan, Italy
- November 2016: *Space of non-uniform points of projections*, Nasjonalt algebramøte 2016, University of Oslo, Norway
- May 2016: *La categoria derivata di un cubic fourfold contenente un piano*, Giornate di Geometria Algebrica ed Argomenti Correlati XIII, University of Catania, Italy
- June 2015: *Fourier-Mukai functors and indecomposable complexes on dual numbers*, GAeL 2015, Leuven

Seminari locali di Università nazionali e internazionali selezionati

- January 2023: *Hyperelliptic Odd Coverings*, University of Bologna, Italy
- December 2020: *Hyperelliptic Odd Coverings*, University of Pavia, Italy
- May 2019: *Monodromy of projections of hypersurface*, University of Bergen, Norway
- May 2018: *On coherent sheaves of small length on the affine planes*, Students seminar, University of Warwick, England
- May 2018: *Equivalence of K3 surfaces from Verra threefolds*, HU University of Berlin, Germany
- February 2018: *On coherent sheaves of small length on the affine plane*, University of Milan
- November 2017: *Some application of focal loci*, University of Pavia, Italy
- November 2016: *The derived category of a cubic fourfold containing a plane*, University of Bergen
- July 2016: *Hurwitz spaces and liftings to the Valentiner group*, weekly seminars, University of Pavia
- March 2016: *Derived category of a non-generic cubic fourfolds containing a plane*, The Stavanger Algebraic Geometry Seminar, University of Stavanger

- September 2015: *The scheme of dual numbers and the description of its derived category*, Friday Colloquium in Mathematics and Physics, University of Stavanger
- March 2015: *Fourier-Mukai functors and perfect complexes on dual numbers*, Algebraic Geometry Seminar, University of Warsaw
- November 2014: *Working seminar of University of Milano*, Department of Mathematics F. Enriques, University of Milan.
- December 2013: *Fourier-Mukai functors and perfect complexes on dual numbers, part 2.* , Department of Mathematics F. Enriques, University of Milan.

ORGANIZZAZIONE DI CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

- Numerical Invariants of Enriques Surfaces, December 2023, Turin, organizer
- Derived categories and Grothendieck ring: a gathering, April 2022, Turin, (Funded by Indam - GNSAGA) organizer
- Workshop GTM 2021, Some Topics in Commutative Algebra and Algebraic Geometry, September 2021, Turin, Part of the local organizing committee
- Workshop: Sheaves, Curves and Moduli, April 2018, Stavanger, Part of the local organizing committee
- Workshop: Derived Categories and Moduli Spaces, April 2018, Stavanger, Part of the local organizing committee

TITOLI DI CUI ALL'ARTICOLO 24 COMMA 3 LETTERA A) E B) DELLA LEGGE 30 DICEMBRE 2010, N. 240

Abilitazione scientifica Nazionale come professore universitario di Seconda Fascia nel Settore Concorsuale 01/A2 - GEOMETRIA E ALGEBRA. Valida dal 02/10/2022 al 02/10/2033

RtdA presso l'Università di Torino, iniziato a Luglio 2021 e in corso

Postdoc all'Università di Pavia, da Gennaio 2019 a Dicembre 2019 e da Marzo 2020 a Luglio 2021

Postdoc all'Università di Stavanger da Settembre 2015 a Dicembre 2018

PRODUZIONE SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

Pubblicazioni:

- Riccardo Moschetti, Marco Rampazzo, *Fullness of the Kuznetsov-Polishchuk exceptional collection for the spinor tenfold*, Algebras and Representation Theory, December 2023, 10.1007/s10468-023-10246-6
- Carl Lian, Riccardo Moschetti, *SZ/rZ -equivariant covers of SP^1 with moving ramification*, Israel Journal of Mathematics, November 2022, 10.1007/s11856-022-2387-2
- Riccardo Moschetti, Franco Rota, Luca Schaffler, *A computational view on the non-degeneracy invariant for Enriques surfaces*, Experimental Mathematics, August 2022, 10.1080/10586458.2022.2113576

- Riccardo Moschetti, Gian Pietro Pirola, *Hyperelliptic odd coverings*, Israel Journal of Mathematics, May 2022, 10.1007/s11856-022-2318-2
- Maria Gioia Cifani, Riccardo Moschetti, *A note on non-uniform points for projections of hypersurfaces*, Annali dell'Università di Ferrara, February 2022, 10.1007/s11565-022-00390-0
- Gavril Farkas, Riccardo Moschetti, Juan Carlos Naranjo, Gian Pietro Pirola, *Alternating Catalan numbers and curves with triple ramification*, Annali della Scuola Normale Superiore di Pisa, June 2021, 10.2422/2036-2145.201909_009
- Maria Gioia Cifani, Alice Cuzzucoli, Riccardo Moschetti, *Monodromy group of projections of hypersurfaces*, Annali di Matematica Pura e Applicata, June 2021, 10.1007/s10231-021-01132-3
- Grzegorz Kapustka, Michał Kapustka, Riccardo Moschetti, *Equivalence of K3 surfaces from Verra threefolds*, Kyoto Journal of Mathematics, September 2020, 10.1215/21562261-2019-0059
- Riccardo Moschetti, *The derived category of a non generic cubic fourfold containing a plane*, Mathematical Research Letters, December 2018, 10.4310/MRL.2018.v25.n5.a8
- Riccardo Moschetti, Andrea Ricolfi, *On coherent sheaves of small length on the affine plane*, Journal of Algebra, December 2018, 10.1016/j.jalgebra.2018.09.028
- Alice Cuzzucoli, Riccardo Moschetti, Maiko Serizawa, *Non Uniform Projections of Surfaces in \mathbb{P}^3* , Le matematiche, April 2017, 10.4418/2017.72.2.8
- Riccardo Moschetti, Gian Pietro Pirola, *Hurwitz spaces and liftings to the Valentiner group*, Journal of Pure and Applied Algebra, February 2017, 10.1016/j.jpaa.2017.03.002
- Riccardo Moschetti, *Fourier-Mukai functors and applications to quadric fibrations*, Ph. D. thesis, December 2014
- Francesco Amodeo, Riccardo Moschetti, *Fourier-Mukai functors and perfect complexes on dual numbers*, Journal of Algebra, September 2013, 10.1016/j.jalgebra.2015.04.020

Preprint:

- Riccardo Moschetti, Franco Rota, Luca Schaffler, *The non-degeneracy invariant for τ -generic Enriques surfaces*, September 2023, arXiv: 2309.14981

TERZA MISSIONE E OUTREACH

- 2016 - current: Reviewer for AMS-math (www.ams.org/mr-database)
 - 2012 - current: Reviewer 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)
- Organized various projects for the popularization of mathematics, including exhibitions such as "Mathematics of Planet Earth 2013" in Paris, "Rette... Rotonde?!" in Pavia featuring the original model of the Pseudosphere of Beltrami (honorable mention in the "Premio Guido Castelnuovo 2017" from Unione Matematica Italiana), and the project "Fly faster? Fly shorter!" (honorable mention 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)

Helped organize exhibitions, such as MateInItaly in Milano Triennale

Designed digital videos to visualize the geometry of abstract constructions

Improved computer programming skills with languages such as C, JavaScript, Python, Matlab, and PHP

- 2010 - 2015: Collaboration with the magazine "XlaTangente" (both on-paper and online release) - www.xlatangente.it

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".

Data

19/01/2020

Luogo

Albuzzano