Francesco Genovese

Curriculum Vitae

Universiteit Antwerpen, Campus Middelheim
Middelheimlaan 1, 2020 Antwerpen
Belgium
✉ *Francesco.Genovese@uantwerpen.be*

Personal data

Birth	Pavia, 25 December 1987
Citizenship	Italian

Positions

May 2019 - present	Postdoc at University of Antwerpen
May 2017 - April 2019	Postdoc at University of Hasselt
September 2016 - April 2017	Postdoc at the Mathematical Institute of the University of Bonn.

Education

November 2012 - December 2015	**Ph.D. in Mathematics**, *University of Pavia*, Mark: Ottimo. Thesis: *Quasi-functors as lifts of Fourier-Mukai functors: the uniqueness problem*, advisor Prof. Alberto Canonaco. Thesis defended on 1 December 2015.
October 2009 - April 2012	**Laurea Magistrale (M.Sc.) in Mathematics**, *University of Pavia*, Mark: 110/110 cum laude. Thesis: *Dg-enhancements of triangulated categories and the uniqueness problem of dg-lifts*, advisor Prof. Alberto Canonaco. Thesis defended on 17 April 2012.
October 2006 - February 2010	**Laurea Triennale (B.Sc.) in Mathematics**, *University of Pavia*, Mark: 110/110 cum laude. Thesis: *Il problema delle estensioni e la coomologia dei gruppi*, advisor Prof. Ludovico Pernazza. Thesis defended on 18 February 2010.
October 2006 - December 2009	Student at *Istituto Universitario di Studi Superiori*, Pavia.
October 2006 - July 2016	Member of *Collegio Fratelli Cairoli*, Pavia.

Research interests

Homological algebra, category theory and their applications. In particular, dg-categories, A_∞-categories and its applications (deformations of triangulated categories, derived categories of algebraic varieties, Fourier-Mukai functors).

Publications and preprints

2019   T-structures and twisted complexes on derived injectives, arXiv:1905.07429 [math.CT]

2017   Adjunctions of quasi-functors between dg-categories, *Applied Categorical Structures* **25** (2017), no. 4, 625–657

2016   The uniqueness problem of dg-lifts and Fourier-Mukai kernels, *J. Lond. Math. Soc. (2)* **94** (2016), no. 2, 617–638

Talks

20 December 2019   Invited talk *t-structures and twisted complexes on derived injectives*, Department of Mathematics, University of Pavia

5 December 2018   Invited talk *t-structures and twisted complexes on derived injectives*, Algebraic Geometry Seminar, University of Liverpool

16 June 2017   Invited talk *Adjunctions of quasi-functors between dg-categories*, Algebra Seminar, University of Antwerp

25 May 2016   Invited talk *Il problema dell'unicità dei nuclei di Fourier-Mukai e dei dg-lift*, Giornate di Geometria Algebrica ed Argomenti Correlati XIII, Catania.

17 March 2016   Invited talk *The uniqueness problem of Fourier-Mukai kernels and dg-lifts*, Algebraic Geometry Seminar, University of Warsaw.

22 December 2015   Invited talk *Quasi-functors as lifts of Fourier-Mukai functors: the uniqueness problem*, Seminari di Natale, University of Milan.

15 June 2015   Contributed talk *Dg-lifts and uniqueness of Fourier-Mukai kernels*, 2014-2015 Warwick EPSRC Symposium: Fourier-Mukai, 34 years on.

Teaching experience

2019-2020	Exercise sessions for the course *Lineaire Algebra* given by Prof. Dr. Alain Verschoren, Bachelor in Computer Science, University of Antwerp.
2014-2015	Teaching seminars for the course *Algebra 2* given by Prof. Paola Frediani, University of Pavia.
2013-2014	Teaching seminars for the course *Algebra 2* given by Prof. Maurizio Cornalba, University of Pavia.
2012-2013	Teaching seminars for the course *Istituzioni di geometria* given by Prof. Paola Frediani, University of Pavia.
2008-2009	Tutoring for the course *Matematica*, Corso di Laurea in Scienze Naturali, University of Pavia.

Languages

Italian	Mothertongue	
English	Advanced	*First Certificate in English, Grade A, 2006*
French	Intermediate	*DELF 2nd degré, 2005*
Dutch	Upper intermediate	
German	Beginner	

Antwerpen, May 3, 2020

Francesco Genovese