

GENERAL INFORMATION



Francesco Meazzini

Università degli studi di Roma "Sapienza"  
 Dipartimento di Matematica "Guido Castelnuovo"  
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Gender M | Date of birth 10/03/1990 | Citizenship Italian

EDUCATION

01/11/2014 - 30/01/2018 Phd degree at 'Sapienza' University of Rome (Italy)

Thesis entitled: "Model categories in Deformation Theory".  
 Advisor: prof. Marco Manetti.

AREAS OF INTEREST

Deformation Theory, Derived Algebraic Geometry, Model Categories, Toric Varieties, Quiver Representations.

PUBLICATIONS AND PREPRINTS

August, 2018 F. Meazzini: "A DG-enhancement of  $D(\text{QCoh}(X))$  with applications in deformation theory", Preprint, arXiv:1808.05119

February, 2018 M. Manetti, F. Meazzini: "Formal Deformation Theory in left-proper model categories", Preprint, arXiv:1802.06707

October, 2016 F. Meazzini: "Quiver representations over a quasi-Frobenius ring and Gorenstein-projective modules", Preprint, arXiv:1610.04137

TEACHING EXPERIENCE

01/10/2017 - 31/01/2018 Tutor for the course "Geometria I" at 'Sapienza' University of Rome (Department of Engineering)

18/10/2016 - 31/01/2017 Tutor for the course "Geometria I" at 'Sapienza' University of Rome (Department of Engineering)

06/10/2016 - 31/01/2017 Tutor for the course "OFA" at 'Sapienza' University of Rome (Faculty of Science)

12/09/2016 - 23/09/2016 Pre-course "Mathematics" at 'Sapienza' University of Rome (Department of Engineering)

10/10/2015 - 11/04/2016 Tutor for the course "Linear Algebra" at 'Sapienza' University of Rome (Math. Department)

05/10/2015 - 31/12/2015 Tutor for the course "OFA" at 'Sapienza' University of Rome (Department of Chemistry)

02/03/2015 - 22/09/2015 Tutor for the course "Probability 1" at 'Sapienza' University of Rome (Math. Department)

UNDERGRADUATE EDUCATION

01/11/2012 - 22/09/2014 **'Diploma di Laurea' (Master Degree) in Mathematics**

University of Rome 'Sapienza', Rome (Italy)  
 110/110 cum laude

Master thesis entitled: "Model categories and derived endomorphisms of quasi-coherent sheaves".  
 Advisor: prof. Marco Manetti.

01/10/2009 - 19/12/2012 **'Diploma di Laurea Triennale' (Bachelor Degree) in Mathematics**

University of Rome 'Sapienza', Rome (Italy)  
 110/110 cum laude

Thesis entitled: "Supersymmetry and Morse Theory".  
 Advisor: prof. Domenico Fiorenza.

01/09/2004 - 13/07/2009 'Diploma di maturità'

Liceo Scientifico 'I. Newton', Rome (Italy)  
100/100

#### LANGUAGES

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Italian (native), English (fluent)

#### TALKS AND SEMINARS

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- 05/04/2018 Invited speaker at University of Milan (Italy). Title: "Formal deformation theory in model categories".
- 26/03/2018 Speaker at the Spring School "Enumerative Invariants from Differential Graded Lie Algebras and Categories" at Montegufoni Castle (Italy). Title: "Deformation quantization of Poisson manifolds". <https://www.agtz.mathematik.uni-mainz.de/algebraische-geometrie/dr-helge-ruddat/spring-school-enumerative-invariants-from-differential-graded-lie-algebras-and-categories/>
- 14/03/2018 Invited speaker at University of Turin (Italy). Title: "Formal deformation theory in model categories".
- 29/11/2017 Speaker for the "Algebra and Geometry group seminar" at Sapienza (Italy). Title: "Resolutions of schemes in Deformation Theory".
- 07/07/2017 Invited speaker at the event "Deformations in Turin" at University of Turin (Italy). Title: "Cofibrant resolutions of schemes and deformations". <http://www.deformationschool.unito.it>
- 03/11/2016 Invited speaker at the event "Calf" at University of Warwick (England). Title: "Quiver Representations and Gorenstein-projective modules". <http://homepages.warwick.ac.uk/staff/E.Fatighenti/CalfPage/index.html>
- 29/07/2016 Invited speaker at the event "Noncommutative Geometry and Higher Structures" at University of Perugia (Italy). Title: "Quiver Representations and Gorenstein-projective modules". <http://www.dmi.unipg.it/ngc2016/index.html>
- 04/04/2016 - 16/05/2016 Lecturer for the Phd course "Cotangent Complex and Deformation Theory" at University of Rome 'Sapienza' (Italy). Title: "The cotangent complex for non-affine schemes". <http://www1.mat.uniroma1.it/people/manetti/AGA/aga14.html>
- 02/07/2015 Seminar for the Phd course "Toric Varieties" at University of Rome 'Sapienza' (Italy). Title: "Cox Ring of Toric Varieties". <http://www1.mat.uniroma1.it/ricerca/dottorato/Corsi2014.html>
- 21/05/2015 Invited speaker at the event "Deformation Theory, Homological Mirror Symmetry and Noncommutative Geometry" at University of Copenhagen (Denmark). Title: "Infinitesimal deformations of quasi-coherent sheaves". <http://www.math.ku.dk/english/research/conferences/2015/hms-ngc/>
- 27/01/2015 Seminar for the Phd course "Derived categories, model categories and cohomology" at University of Rome 'Sapienza' (Italy). Title: "Anderson-Brown-Cisinski (co)fibration categories". <http://www1.mat.uniroma1.it/people/manetti/AGA/aga14.html>
- 25/11/2014 Seminar for the Phd course "Derived categories, model categories and cohomology" at University of Rome 'Sapienza' (Italy). Title: "Total derived functors, the functor  $\mathrm{RHom}(X,-)$ , Ext as morphisms in the derived category". <http://www1.mat.uniroma1.it/people/manetti/AGA/aga14.html>
- 16/05/2013 Seminar for the course "Geometria Superiore" at University of Rome 'Sapienza' (Italy). Title: "Hodge Theory and Dolbeault Theory". <http://www1.mat.uniroma1.it/people/piccinni/geometria-superiore-1213/Esercizi.html>

#### CONFERENCES AND WORKSHOPS

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- 26/03/2018 - 30/03/2018 "Enumerative Invariants from Differential Graded Lie Algebras and Categories" at Montegufoni Castle (Italy). <https://www.agtz.mathematik.uni-mainz.de/algebraische-geometrie/dr-helge-ruddat/spring-school-enumerative-invariants-from-differential-graded-lie-algebras-and-categories/>

- 19/02/2018 - 23/02/2018 “Workshop in deformation theory”, University of Bari (Italy). <http://www.dm.uniba.it/~iacono/WDT/indexWDT.html>
- 05/07/2017 - 08/07/2017 “Deformations in Turin”, University of Turin (Italy). <http://www.deformationschool.unito.it>
- 21/06/2017 - 24/06/2017 “Modern algebra and classical geometry, together with Edoardo Sernesi”, FBK, Trento (Italy). <http://www.science.unitn.it/cirm/Sernesi2017.html>
- 03/11/2016 “Calf”, University of Warwick (England). <http://homepages.warwick.ac.uk/staff/E.Fatighenti/CalfPage/index.html>
- 19/09/2016 - 24/09/2016 “Non-commutative, derived and homotopical methods in Geometry”, University of Antwerp (Belgium). <http://antwerp-2016.ncag.info>
- 25/07/2016 - 29/07/2016 “Noncommutative Geometry and Higher Structures”, University of Perugia (Italy). <http://www.dmi.unipg.it/ngc2016/index.html>
- 23/05/2016 - 27/05/2016 “Wall-crossing and quiver varieties”, EPFL, Lausanne (Switzerland). <http://bernoulli.epfl.ch/PublicEvent.php?event=1083>
- 21/12/2015 - 23/12/2015 Organizer of the conference “Algebraic Geometry and Representation Theory”, Sapienza, Rome (Italy). <http://www1.mat.uniroma1.it/people/meazzini/conference/AGRT.html>
- 23/11/2015 - 27/11/2015 “Topos à l’IHES”, IHES, Paris (France). <https://indico.math.cnrs.fr/event/747/>
- 13/09/2015 - 18/09/2015 “Derived Algebraic Geometry”, Collegio Cairoli, Pavia (Italy). <https://sites.google.com/site/deralggeo/home>
- 07/09/2015 - 10/09/2015 “Derived Categories and Moduli Spaces”, University of Stavanger (Norway). <http://sheaves.uis.no/workshop2015/index.html>
- 31/08/2015 - 04/09/2015 “Noncommutative Geometry and Higher Structures”, Sapienza, University of Rome (Italy). <http://www1.mat.uniroma1.it/people/fiorenza/ngc2015/>
- 03/08/2015 - 14/08/2015 “Moduli Spaces, Derived Categories and Stability Conditions”, Palazzone, Cortona (Italy). <http://germano.math.unifi.it/it/courses-cortona/>
- 25/05/2015 - 05/06/2015 “Algebraic Varieties and their moduli”, Centro di Ricerca Matematica Ennio De Giorgi, Pisa (Italy). <http://www.crm.sns.it/event/345/>
- 18/05/2015 - 22/05/2015 “Deformation Theory, Homological Mirror Symmetry and Noncommutative Geometry”, University of Copenhagen (Denmark). <http://www.math.ku.dk/english/research/conferences/2015/hms-ngc/>

## FELLOWSHIPS AND AWARDS

- 13/10/2016 Winner of the “bando n.7/2016” (prot. n. 647) at University of Rome ‘Sapienza’ for tutoring the course “Geometria I” at the Faculty of Engineering.
- 30/07/2016 Winner of the “Bando Ricerca Scientifica 2016” for a research project entitled: “Model Categories in Deformation Theory”.
- 25/07/2016 Winner of the “bando n.3/2016” at University of Rome ‘Sapienza’ for teaching the pre-course “Mathematics” at the Faculty of Engineering.
- 22/09/2015 Winner of the “bando n.13/2015” at University of Rome ‘Sapienza’ for tutoring the course “Linear Algebra”.
- 15/09/2015 Winner of the “bando n.8/2015” at University of Rome ‘Sapienza’ for tutoring the course “OFA”.
- 30/07/2015 Winner of the “Bando Ricerca Scientifica 2015” (prot. n. 0051276) for a research project entitled: “Model Categories in Deformation Theory”.
- April 2015 Winner of the “Laureato Eccellente Sapienza” prize.
- 02/03/2015 - 03/09/2015 Winner of the “bando n.16/2014” at University of Rome ‘Sapienza’ for tutoring the course “Probability 1”.

- 2014 “Percorso d’eccellenza” for the Master Degree in Mathematics.
- 2012 - 2013 “Percorso d’eccellenza” for the Bachelor Degree in Mathematics.
- 2010/2011 “Borsa di Collaborazione Laboratorio e Centro di Calcolo” at University of Rome ‘Sapienza’.
- 2009/2010 “Borsa di Collaborazione Biblioteca” at University of Rome ‘Sapienza’.
- 19/03/2009 Winner of the competition for the payment of the university taxes for the first year of Bachelor Degree in Mathematics at University of Rome ‘Sapienza’.
- 2008 and 2009 Participant in the finals of the ‘Olimpiadi della Matematica’ in Cesenatico.