

Francesco Mattiello

Curriculum Vitae

Department of Mathematics
University of Padova
Via Trieste 63
35121 Padova (PD)
ITALY

Office: 530
e-mail: mattiell@math.unipd.it
Phone: (+39) 049 827 1460

Research interests

Homological algebra in triangulated categories, Torsion pairs and tilting theory, Stability conditions in abelian and triangulated categories, Category theory.

Education

Since May 2015	Postdoctoral researcher in Mathematics University of Padova (Italy)
March 2015	PhD in Mathematics - University of Padova
Jan. 2012 - Jan. 2015	PhD candidate University of Padova (Italy) Advisor: Prof. Riccardo Colpi
July 2011	Master degree in Mathematics - 110/110 cum laude Joint degree: University of Padova (Italy), University of Bordeaux (France) Master Thesis: On the heart associated to a faithful torsion pair Thesis Advisors: Prof. Riccardo Colpi, Prof. Boas Erez
Sept. 2010 - July 2011	Second year Master Mundus ALGANT University of Bordeaux (France)
Sept. 2009 - July 2010	First year Master Mundus ALGANT University of Padova (Italy)
July 2009	Bachelor degree in Mathematics - 110/110 cum laude University of Padova (Italy) Bachelor Thesis: Quotients of the gaussian integers Thesis Advisors: Prof. Federico Menegazzo
Oct. 2005 - July 2009	Bachelor studies in Mathematics University of Padova (Italy)

Publications and preprints

- | | |
|------|--|
| 2016 | F. Mattiello, <i>On a property of t-structures generated by non-classical tilting modules</i> (preprint). |
| 2016 | L. Fiorot, F. Mattiello, M. Saorín, <i>Derived equivalences induced by nonclassical tilting objects</i> (accepted for publication in <i>Proceedings of the American Mathematical Society</i>). |
| 2016 | L. Fiorot, F. Mattiello, A. Tonolo, <i>A classification theorem for t-structures</i> (accepted for publication in <i>Journal of Algebra</i>). |
| 2016 | R. Colpi, L. Fiorot, F. Mattiello, <i>On Tilted Giraud Subcategories</i> , <i>Journal of Pure and Applied Algebra</i> Volume 220, Issue 1, January 2016, Pages 346363, doi:10.1016/j.jpaa.2015.06.016. |

Research visits

- | | |
|-----------|---|
| July 2013 | University of Bordeaux, visiting Prof. A. Bertram and Prof. B. Erez |
|-----------|---|

Various papers

- | | |
|------|---|
| 2015 | F. Mattiello, <i>New trends in tilting theory</i> (PhD Thesis) |
| 2011 | F. Mattiello, <i>On the heart associated to a faithful torsion pair</i> (Master Thesis) |

Talks

Nov. - Dec. 2014	<i>The 2-category of Grothendieck Derivators</i> University of Padova (Italy) , Seminar on Grothendieck Derivators
June 2014	<i>Some aspects of tilting</i> Abbazia di Spineto (Italy) , Algebraic Structures and Their Applications
February 2014	<i>The Ziegler Spectrum of a ring</i> University of Verona (Italy) , Seminar on Some Aspects of Purity
December 2013	<i>Stability conditions</i> University of Padova (Italy) , Seminar on Stability conditions
November 2013	<i>Torsion theories and t-structures</i> University of Padova (Italy) , Seminar on Stability conditions
October 2013	<i>Pure exact sequences, Pure-projective and Pure-injective modules</i> University of Verona (Italy) , Seminar on Some Aspects of Purity
June 2013	<i>Torsion pairs through Giraud and co-Giraud subcategories with applications to hearts of t-structures</i> University of Murcia (Spain) , Recent Trends in Rings and Algebras
Feb. 2012	<i>The AR-quiver of a tilted algebra</i> University of Verona (Italy) , Representation Theory Seminar
July 2011	<i>On the heart associated to a faithful torsion pair</i> University of Milan (Italy) , Graduation
June 2011	<i>On the heart associated to a faithful torsion pair</i> University of Bordeaux (France) , Graduation
Mach 2011	<i>Derived categories and t-structures</i> University of Bordeaux (France) , Groupe de travail Géométrie Algébrique et Géométrie Arithmétique
April 2010	<i>An introduction to the Riemann zeta function</i> University of Padova (Italy) , Undergraduate student seminar
April 2008	<i>An elementary view of Euler's summation formula</i> University of Padova (Italy) , Undergraduate student seminar

Conferences, Seminars, Workshops

April 2015	<i>Axiomatic Homotopy Theory via Grothendieck Derivators</i> CRM - Universitat Autnoma de Barcelona (Spain)
June 2014	<i>Algebraic Structures and Their Applications</i> Abbazia di Spineto (Italy)
June 2013	<i>Recent Trends in Rings and Algebras</i> University of Murcia (Spain)
Jan. - Sept. 2013	<i>MALGA Seminars</i> University of Padova (Italy)
Jan. - Dec. 2012	<i>MALGA Seminars</i> University of Padova (Italy)
April 2012	<i>Maurice Auslander International Conference and Distinguished Lectures</i> Northeastern University (USA)
Sept. 2011	<i>Cohomology theories: a road map. ALGANT Summer School</i> University of Padova, Bressanone (Italy)
March - April 2011	<i>MALGA Seminars</i> University of Padova (Italy)
2010-2011	<i>Groupe de travail Géométrie Algébrique et Géométrie Arithmétique</i> University of Bordeaux (France)
Nov. 2010	<i>Séminaire Bourbaki</i> École normale supérieure (France)
Nov. 2010	<i>Espace-temps, nombres premiers, deux défis pour la géométrie. Une question, un chercheur</i> Institut Henri Poincaré (France)
July 2010	<i>Elliptic curves. ALGANT Summer School</i> University of Bordeaux (France)

Referee work

2012	<i>Note di Matematica</i>
2015	<i>Journal of Algebra and Its Applications</i>

Awards and Fellowships

2012 - 2015	PhD Scholarship funded by the University of Padova
2009 - 2011	European Commission Erasmus Mundus grant

Teaching experience

Teaching for the following courses:

2016 - 2017	Analisi Matematica e Geometria (IUAV, Venezia)
2016 - 2017	Precorso di Matematica (Padova)
2015 - 2016	Precorso di Matematica (Padova)

Teaching assistant for the following courses:

2016 - 2017	Algebra (Verona)
2016 - 2017	Algebra 2 (Padova)
2015 - 2016	Algebra 1 (Padova)
2014 - 2015	Algebra 1 (Padova)
2013 - 2014	Algebra 1 (Padova)
2012 - 2013	Matematica e Statistica (Padova)
2011 - 2012	Matematica e Statistica (Padova)

Organizing activities

May 2015 - Sept. 2015	MOOC Precorso di Calcolo (with M. Fogagnolo, V. Franceschi, C. Mariconda, L. Provenzano, A. Tonolo)
Nov. 2014 - Jan. 2015	Seminar on Grothendieck Derivators (with S. Bazzoni and S. Virili)
Sept. 2013 - June 2014	Conference Algebraic Structures and Their Applications (with S. Bazzoni, R. Colpi, F. Mantese, A. Pavarin, A. Tonolo)
Nov. 2013 - Jan. 2014	Seminar on Stability Conditionst (with E. Mistretta and S. Urbinati)
Oct. 2013 - Feb. 2014	Seminar on Some Aspects of Purity (with A. Pavarin and J. Vitoria)
Dec. 2012 - Mar. 2013	Working group on Model Categories and Applications (with R. Colpi)

Languages

Italian	Native speaker
English	Fluent
French	Fluent