

Andrea Vietri

Born in Rome, Italy, on June 20th, 1969.

Researcher in Geometry (MAT/03) since November 1st, 2010, at Sapienza Università. Department: S.B.A.I. (Scienze di Base e Applicate per l'Ingegneria).

EDUCATION

January 30th, 1992, Italian "Laurea" in Mathematics, Università La Sapienza, Rome, Italy. Topic of the thesis: Cobordism theory (Algebraic and Differential Topology).

February 20th, 2003, PhD in Mathematics, Università La Sapienza. Title of the thesis: *Two examples of hypergraph edge-coloring, and their connections with other topics in Combinatorics*.

POSTDOCTORAL GRANTS

November 2003 - October 2005 and July 2006 - June 2009, Postdoctoral grants in Geometry (Combinatorics), department: Metodi e Modelli Matematici per le Scienze Applicate (Me.Mo.Mat.), Università La Sapienza. Main research topic: block designs, decomposition of graphs, difference families, graph labellings.

TEACHING

November 1993 - March 1999, teacher of Mathematics in public High Schools (Sassari, Viterbo).

2000 - 2010, "Tutor" in Calculus, Geometry and Algebra, Università La Sapienza.

2001 - 2003, "Professore a contratto" in Mathematical Logic, Università La Sapienza.

2005 - 2010, "Professore a contratto" in Geometry, Università La Sapienza, sede di Latina.

Since 2005 he has been teaching Linear Algebra and Geometry in Latina, Università La Sapienza.

SCHOOLS AND OTHER COURSES

1992 - 1993, course in Mathematical Teaching ("Didattica della matematica e della matematica applicata"), Università La Sapienza.

1994 - 1995, course in Teaching Technologies ("Tecnologie per l'insegnamento"), Università Roma Tre.

1997 - 1998, course in Science Teaching ("Didattica delle scienze"), Università Roma Tre.

9 - 21 August, 1999, ESSLLI99, European school of Logic, Language and Information, Utrecht University (The Netherlands).

September 27th - October 1st, 1999, Summer school in Logic, Cesena (Italy).

21 - 24 March, 2000, SUNLAG2000, Workshop in Logic, Algebra, Geometry, Seconda Università di Napoli.

ORGANISATION OF EVENTS

11 - 14 June, 2003, 22ème Journées sur les Arithmétiques Faibles, Napoli (Website construction and general collaboration).

RECENT SEMINARS

* Cognitive Modeling in Linguistics 2009, Constantza (Romania), 7 - 14 September, 2009, *A graph-theoretic framework for semantic relatedness*.

* March 11th, 2011, Department S.B.A.I., Università Sapienza, seminar: *Un modello combinatorio per l'analisi di inventari vocalici*.

- * May 26th, 2011, Department of Mathematics, Università Sapienza, seminar: *Etichettature graziose-reali: una generalizzazione delle etichettature graziose.*
- * May 16th, 2012, Department S.B.A.I., Università Sapienza, seminar: *Etichettature graziose reali: una generalizzazione delle etichettature graziose.*
- * Combinatorics 2012, Perugia, 9 - 15 September, 2012, *Zero-divisor graphs: a connection between graph theory and commutative algebra.*
- * May 23th, 2013, Department S.B.A.I., Università Sapienza, seminar: *Zero-divisor graphs of some 3- or 4-variable polynomial rings.*
- * May 29th, 2014, Department S.B.A.I., Università Sapienza, seminar: *Colorazione di spigoli di grafi e criticità: un approccio recente.*
- * Combinatorics 2014, Gaeta, 1 - 6 June, 2014, *An analogy between edge colourings of graphs and differentiable manifolds.*
- * GeoSym 2015, Veszprém, Hungary, 29 June - 3 July 2015, *A rephrasing of edge colouring by local charts and orientability.*
- * Combinatorics 2016, Maratea, 29 May - 4 June, 2016, *Graceful polynomials and their vanishing.*

OTHER CONFERENCES

- * *A Conference in honor of the 70th birthday of Endre Szemerédi*, August 2 - 7, 2010, Rényi Institute, Budapest, Hungary.
- * *Trends in Graph Theory and Combinatorics*, April 4 - 5, 2013, Department of Mathematics, Politecnico di Milano.

RECENT PUBLICATIONS

- * *Real-graceful labellings: a generalisation of graceful labellings*, *Ars Comb.* **102**, 2011, pp. 359-364.
- * *Necessary conditions on graceful labels: a study case on trees and other examples*, *Utilitas Math.* **89**, 2012, pp. 275-287.
- * *A combinatorial analysis of zero-divisor graphs on certain polynomial rings*, *Comm. Algebra*, **41**, 2013, pp. 2040-2047.
- * *The story of Graceful Collages (Breaking the Harmony, for a Better One)*, in: *Recent Results in Designs and Graphs. A Tribute to Lucia Gionfriddo*, *Quaderni di Matematica* **28**, 2013, pp. 439-454.
- * *A new zero-divisor graph contradicting Beck's conjecture, and the classification for a family of polynomial quotients*, *Graphs Comb.* **31**, 2015, pp. 2413-2423.
- * *An analogy between edge colourings and differentiable manifolds, with a new perspective on 3-critical graphs*, *Graphs Comb.* **31**, 2015, pp. 2425-2435.

TEXTBOOKS

- * *Itinerario di geometria e algebra lineare*, ed. CISU, 2010 (improved version, 2012).

REFEREEING ACTIVITY

for many international journals on Combinatorics.

REVIEWER

for MathSciNet.