

Curriculum Vitae Flaminio Flamini

Address : Dipartimento di Matematica
Università di Roma "Tor Vergata"
Viale della Ricerca Scientifica – 00133 Roma
Tel. : +39 – 06 – 72594611
Fax : +39 – 06 – 72594699
E – mail : flamini@mat.uniroma2.it
Web page : [http : //www.mat.uniroma2.it/~flamini](http://www.mat.uniroma2.it/~flamini)

CAREER AND EDUCATION

ACADEMIC POSITION:

- **01/11/2006 – present: Associate professor** - Univ. Roma "Tor Vergata", s.s.d. 01/A2 Algebra e Geometria (from MAT/03 - GEOMETRIA).

EDUCATION

- **17/11/1993: Laurea in Matematica**, Univ. Roma "La Sapienza".
- **13/01/2000: Ph.D in Mathematics**, Consortium Univ. of Rome "La Sapienza" and "Roma Tre". Advisor: *E. Sernesi*.

PREVIOUS APPOINTMENTS:

- **12/07/1994 - 29/06/1995:** Military service.
- **01/12/2001 - 31/10/2005: Ricercatore Universitario** (Researcher), Faculty: Scienze MM. FF. e NN. - Univ. *L'Aquila*, MAT/03 - GEOMETRIA.
- **01/11/2005 - 31/10/2006: Ricercatore Universitario** (Researcher), Faculty: Ingegneria - Univ. Roma "Tor Vergata", MAT/03 - GEOMETRIA.

FELLOWSHIPS AND ACADEMIC HONORS

- 1) **1/12/1993 - 30/11/1994:** Post-laurea fellowship *INdAM*.
- 2) **1/11/1995 – 31/10/1999:** Ph.D. fellowship **Dottorato di Ricerca in Matematica - XI Ciclo**, Consortium Univ. of Rome "La Sapienza" - "Roma Tre".
- 3) **1/12/1999:** 4-years Fellowship **Assegno di Ricerca** at Dip. Matematica - Univ. "Roma Tre". Supervisor: *A. Verra*.
- 4) **16/11/2001:** Valutazione comparativa **Ricercatore Universitario** (Researcher) - MAT/03 - Geometria - Faculty Scienze MM., FF. e NN. - Univ. *L'Aquila*. Enrollment: 1/12/2001.
- 5) **21/01/2005:** Idoneità **Professore Associato** (Associate Professor) - MAT/03-Geometria - Faculty Scienze MM., FF. e NN. - Univ. *Udine*.

6) **15/10/2005**: Valutazione comparativa trasferimento **Ricercatore Universitario Confermato** (Researcher) - MAT/03-Geometria - Faculty Ingegneria - Univ. *Roma "Tor Vergata"*. Enrollment: 1/11/2005.

RESEARCH

RESEARCH MAIN SUBJECTS

Algebraic Geometry; in particular:

- (i) families of singular curves on smooth projective varieties and modular properties;
- (ii) rational curves in the Hilbert scheme $S^{[n]}$ parametrizing 0-dimensional subschemes of length n on a smooth, projective surface S with $p_g(S) > 0$ (in particular S a $K3$) and unexpected Brill-Noether properties of smooth curves which are normalizations of singular curves on S ;
- (iii) embedded degenerations on projective surfaces and topological-algebraic invariants;
- (iv) Hilbert schemes of irrational scrolls of genus $g \geq 2$: components dominating $\mathcal{M}_g$ or particular subvarieties as the k -gonal locus $\mathcal{M}_{g,k}^1 \subset \mathcal{M}_g$;
- (v) moduli space $U_C(2, d)$ of semistable rank-two vector bundles of degree d on a curve C with general moduli: geometric properties, Brill-Noether loci, Petri map.
- (vi) Fano 3-folds of index 1 and curves of lines: global and infinitesimal Torelli type theorems;
- (vii) projective geometry of the canonical curve and the singularity of the theta divisor in its Jacobian;
- 9) linear systems on higher dimensional varieties via multiplier ideals.
- 10) moduli spaces $\overline{\mathcal{M}}_{g,n}$ of stable, n -pointed, genus g curves and natural symmetric functions defined on it.

VISITING POSITIONS

- 1) **Visiting scholar** at Dep. of Mathematics - *University of Illinois at Chicago*, 1 Feb. – 29 April 2001.
- 2) **Visiting scholar and Invited speaker** at Dep. of Mathematics - *University of Michigan, Ann Arbor*, 11 – 16 March 2001.
- 3) **Professeur Invite** at Dep. of Mathematics - IRMA - *Univ. Strasburgo (France)*, 25-30 April 2004.
- 4) **Invited Professor** at Dep. of Mathematics - *Univ. Bergen (Norway)*, 16-21 Sept. 2008.
- 5) **Research Fellow** at *Korea Institute of Advanced Studies (KIAS)*, 10-21 Oct. 2010.

PAPERS

- [1] - "Towards an inductive construction of self - associated sets of points", *Le Matematiche*, **LIII** (1998), 33-41.
- [2] - "Famiglie di curve nodali su superfici proiettive", *Bollettino U.M.I. - Sez. A* - Fascicolo dedicato alle tesi di Dottorato, **(8) III A** (2000), 343-346.

- [3] - "Some results of regularity for Severi varieties of projective surfaces", *Communications in Algebra*, **29** (6) (2001), 2297-2311.
- [4] - "Geometric linear normality for nodal curves on some projective surfaces", with C. Madonna (U. Roma "Tor Vergata"), *Bollettino U. M. I. - Sez. B* (8), **4-B** (2001), 269-283.
- [5] - *Finite commutative rings and their applications*, with G. Bini (U. Michigan - Ann Arbor) - The Kluwer International Series in Engineering and Computer Science, **680**, Kluwer Academic Publishers, Boston, 2002 (pages 192, ISBN 1-4020-7039-X).
- [6] - "Moduli of nodal curves on smooth surfaces of general type", *Journal of Algebraic Geometry*, **11** (2002), no. 4, 725-760.
- [7] - "Families of nodal curves on smooth projective threefolds and their regularity via postulation of nodes", *Transactions of the American Mathematical Society*, **355** (2003), 4901-4932.
- [8] - "Equivalence of families of singular schemes on threefolds and fourfolds", *Collectanea Mathematica*, **55** (2004), 37-60.
- [9] - "On the geometric genus of reducible surfaces and degenerations of surfaces to unions of planes", in with A. Calabri (U. Bologna), C. Ciliberto (U. Roma "Tor Vergata"), R. Miranda (Colorado State U.), *Proceedings of the Fano Conference - Torino - 29 September -5 October 2002*, (2004), 277 - 312.
- [10] - "Symmetric functions from moduli spaces of pointed curves via vanishing theorems", with G. Bini (U. Milano), *Global J. Math. Math. Sci.*, Vol. 1 no. **1** (2005), 77 - 90.
- [11] - "Degenerations of scrolls to union of planes", with A. Calabri (U. Padova), C. Ciliberto (U. Roma "Tor Vergata"), R. Miranda (Colorado State U.), *Rend. Lincei Mat. Appl.*, **17** (2006), no. 2, 95-123.
- [12] - "On the K^2 of degenerations of surfaces and the multiple point formula", with A. Calabri (U. Padova), C. Ciliberto (U. Roma "Tor Vergata"), Rick Miranda (Colorado State U.), *Annals of Mathematics*, **165** (2007), no. 2, 335-365.
- [13] - "On the genus of reducible surfaces and degenerations of surfaces", with A. Calabri (U. Padova), C. Ciliberto (U. Roma "Tor Vergata"), Rick Miranda (Colorado State U.), *Annales de l'Institut Fourier*, **57** (2007), no. 2, 491-516.
- [14] - "Singular curves on a K3 surface and linear series on their normalizations", with A. L. Knutsen (U. Roma Tre), G. Pacienza (U. Strasbourg - France), *International Journal of Mathematics*, **18** (2007), no. 6, 671-693.
- [15] - "Non special scrolls with general moduli", with A. Calabri (U. Padova), C. Ciliberto (U. Roma "Tor Vergata"), R. Miranda (Colorado State U.), *Rend. Circolo Mat. Palermo*, **57** (2008), no. 1, 1-31.
- [16] - "Nodal curves with general moduli on $K3$ surfaces", with A. L. Knutsen (U. Bergen - Norway), G. Pacienza (U. Strasbourg - France), E. Sernesi (U. Roma Tre), *Communications in Algebra*, **36** (2008), n.11, 3955-3971.

- [17] - "Brill-Noether theory and non-special scrolls", with A. Calabri (U. Padova), C. Ciliberto (U. Roma "Tor Vergata"), R. Miranda (Colorado State U.), *Geom. Dedicata*, **139** (2009), 121-138.
- [18] - "On families of rational curves in the Hilbert square of a surface (with an appendix by Edoardo Sernesi)", with A. L. Knutsen (U. Bergen - Norway), G. Pacienza (U. Strasbourg - France), pp. 639-678; Appendix: "Partial desingularization of families of nodal curves", E. Sernesi (U. Roma Tre), pp. 679-682, *Michigan Mathematical Journal*, **58** (2009), 639-682.
- [19] - "Special scrolls whose base curve has general moduli", with A. Calabri (U. Padova), C. Ciliberto (U. Roma "Tor Vergata"), R. Miranda (Colorado State U.), *Interactions of Classical and Numerical Algebraic Geometry*, Bates et al. (eds.), *Contemporary Mathematics*, **496** (2009), A.M.S., p. 133-155.
- [20] - " $\mathbb{P}^r$ -scrolls arising from Brill-Noether theory and $K3$ -surfaces", *Manuscripta Mathematica*, **132** (2010), 199-220.
- [21] - "The curve of lines on a prime Fano threefold of genus 8", with E. Sernesi (U. Roma Tre), *International Journal of Mathematics*, **21**, No. 12 (2010), 1561-1584.
- [22] - "On the branch curve of a general projection of a surface to a plane", with C. Ciliberto (U. Roma "Tor Vergata"), *Transactions American Mathematical Society*, **363**, No. 7 (2011), 3457-3471.
- [23] - "Lectures on Brill-Noether theory", in *Curves and Jacobians*, Eds. J-M Muk, Y.R. Kim, Korean Institute of Advanced Study, p. 1-20. (2011).

PREPRINTS AND WORK IN PROGRESS

- [24] - "On degenerations of surfaces", with A. Calabri (U. Padova), C. Ciliberto (U. Roma "Tor Vergata"), Rick Miranda (Colorado State U.), *math.AG/0310009 v2* (9 May 2008), part of a volume to be completed, pp. 85, (2008).
- [25] - "Brill-Noether loci of stable rank-two vector bundles over a general curve", with C. Ciliberto (U. Roma "Tor Vergata"), *submitted preprint* (2011), 9 pp.
- [26] - "Hilbert scheme of some threefold scrolls over $\mathbb{F}_1$ ", with G. Besana (C.T.I. DePaul U.-Chicago - USA), M.L. Fania (U. di L'Aquila), *submitted preprint* (2011), 23 pp.
- [27] - "Stable rank-two vector bundles over a general curve and their Brill-Noether theory", with C. Ciliberto (U. Roma "Tor Vergata"), A. Verra (U. "Roma Tre"), *work in progress* (2012).
- [28] - "Singularities of the theta divisor and the projective geometry of the canonical curve", with C. Ciliberto (U. Roma "Tor Vergata"), E. Sernesi (U. "Roma Tre"), *work in progress* (2012).
- [29] - " k -gonal loci in M_g and $K3$ surfaces", with C. Ciliberto (U. Roma "Tor Vergata"), A.L. Knutsen (U. Bergen - Norway), *work in progress* (2012).

NOTES OF LECTURE SERIES

[1] - "Lectures on Brill-Noether theory", Lecture Series *Workshop on Curves and Jacobians* - *KIAS Institute*, October 18-21, 2010, Sol Beach Resort, Yangyang (Korea), pp. 1–19.

POSTER SESSIONS

1) Poster "*Families of nodal curves on smooth projective threefolds and their regularity via postulation of nodes*", Flaminio Flamini - **The Fano Conference** - Torino, 29 Sept. - 5 Oct. 2002.

2) Abstract "*Su alcune degenerazioni di superfici algebriche*", Flaminio Flamini - **XVII Congresso U.M.I.** - Milano, 8-13 Sept. 2003.

3) Poster "*Brill-Noether theory for singular curves on $K3$ surfaces*", Flaminio Flamini, Andreas L. Knutsen e Gianluca Pacienza - **Meeting on Algebraic Varieties** - Roma, 18-20 December 2003.

CONFERENCE TALKS

1) Pragmatic 1997 - Catania, June 1997. Title: *On a Castelnuovo construction*;

2) "Giornate di Geometria Algebrica e questioni correlate V" - Gargnano, May 2000. Title: *Famiglie di curve nodali su superfici proiettive*;

3) Pragmatic 2001, Catania, June 2001. Title: *Nodal curves in linear systems on smooth, projective surfaces I*;

4) Pragmatic 2001, Catania, June 2001. Title: *Nodal curves in linear systems on smooth, projective surfaces II*;

5) "EAGER 2001 - Advanced school in Algebraic Geometry: Moduli spaces of curves" - Levico Terme (TN), 1-5 Sept. 2001. Titolo: *Number of moduli for families of nodal curves on surfaces*;

6) Workshop on Global Geometry of Algebraic Varieties - Madrid, December 2002. Title: *Families of nodal "curves" on smooth projective 3-folds*;

7) Pragmatic 2003, Catania, June 2003. Title: *Geometric k -normality of nodal curves on surfaces*;

8) Pragmatic 2003, Catania, June 2003. Title: *On numerical invariants of reducible surfaces*;

9) XVII Congresso U.M.I., Milano, 8-13 Sept. 2003. Title: *Su alcune degenerazioni di superfici*;

10) Meeting on Algebraic Varieties, Roma, 18-20 December 2003. Title: *Degenerations of surfaces and related problems*;

11) Projective varieties with unexpected properties: a conference in honour of the 150th birthday of G. Veronese, Siena, 8-13 June 2004. Title: *Brill-Noether theory for singular curves on a $K3$ surface*;

12) Joint Meeting UMI-DMV, Perugia, 18-22 June 2007. Title: *Curves with "unexpected" properties on a $K3$ surface and rational curves in its Hilbert square*;

13) Algebraic Geometry, D-modules and Foliations, Buenos-Aires (Argentina), 21-26 July 2008. Title: *On Hilbert schemes of scrolls of genus g* ;

14) 15 years of Pragmatic, Catania, 17-19 Sep. 2012 (expected)

LECTURE SERIES

- 1) Supporting Lecturer **Pragmatic 2001** - Catania, 11 - 29 June 2001 (Main lecturers C. Ciliberto and R. Miranda).
- 2) Supporting Lecturer **Pragmatic 2003** - Catania, 9 - 28 June 2003 (Main lecturers I. Dolgachev and A. Verra).
- 3) Main lecturer (with E. Sernesi) at **Workshop on Curves and Jacobians**, Yangyang (Seoul-Korea), 18-21 Ottobre 2010. Title: *Topics on Brill-Noether theory*.

SEMINAR TALKS

- 1) Dep. Mathematics - Univ Illinois at Chicago, 2001. *Moduli of nodal curves on surfaces of general type*;
- 2) Dep. Mathematics - Univ Michigan, Ann Arbor, 2001. *Moduli of nodal curves on surfaces of general type*;
- 3) Dep. Mathematics - Univ Michigan, Ann Arbor, 2001. *Families of nodal curves on algebraic surfaces*;
- 4) Dip. Matematica Pura ed Applicata - Univ di L'Aquila, 2002. *Varietà di Severi su superfici lisce e proiettive*;
- 5) Dip. Matematica - Univ Roma "Tor Vergata", 2002. *Curve nodali su superfici e loro moduli*;
- 6) Dip. Matematica - Univ "Roma Tre", 2002. *Famiglie di "curve" nodali su 3-folds*;
- 7) Institut Mathematiquès (IMA) - Ecole Polytechnique Fédérale de Lausanne - Suisse, 2002. *Families of nodal curves on algebraic surfaces*;
- 8) Dip. Matematica - Univ Roma "Tor Vergata", 2003. *Famiglie di "curve" nodali su 3-folds*;
- 9) Dip. Matematica - Univ Milano, 2003. *Famiglie di "curve" nodali su 3-folds*;
- 10) Dip. Matematica - Univ Pavia, 2003. *Famiglie di "curve" nodali su 3-folds*;
- 11) Dip. Matematica - Univ Genova, 2004. *Curve singolari su una superficie $K3$ e loro serie lineari "inaspettate"*;
- 12) Dip. Matematica - Univ. Pisa, 2006. *Su alcune componenti dello schema di Hilbert di scrolls di genere $g \geq 0$* ;
- 13) Dip. Matematica - Univ. Padova, 2007. *Curve "inaspettate" su S superficie $K3$ e curve razionali in $\text{Hilb}^2(S)$* ;
- 14) Dip. Matematica - Univ L'Aquila, 2008. *Scrolls di genere g e degenerazioni*;
- 15) Dip. Matematica - Univ. Torino, 2008. *Scrolls di genere g e degenerazioni*;
- 16) Mathematics Dept. - Univ. Bergen (Norway), 2008. *The curve of lines on a prime Fano 3-fold of genus 8*;
- 17) Dip. Matematica - Univ. Genova, 2008. *Schemi di Hilbert di scrolls irrazionali*;

ORGANIZATION/COORDINATION OF SCIENTIFIC ACTIVITIES

HEAD OF NATIONAL AND INTERNATIONAL RESEARCH FUNDS

- 1) "Fondi 60 % (Quota meriti scientifici)" - Research group *Algebraic Geometry* - Dip. Matematica - U. Roma "Tor Vergata", from January 2010.
- 2) *Gruppo di Ricerca europeo Italo Francese in Geometria Algebrica (GRIFGA)* (together with Massimiliano Mella - Univ. Ferrara) - Consortium **CNRS** and **INdAM**, 2012-2015.

SERVICES TO THE INTERNATIONAL SCIENTIFIC COMMUNITY

- 1) Reviewer for *AMS - Mathematical Reviews, Algebraic Geometry* since 2000.
- 2) Referee for journals: *Advances in Geometry, Applied Mathematics Letters, Collectanea Mathematica, Geometriae Dedicata, Journal of Symbolic Computation, Rendiconti Circolo Matematico Palermo, Transactions of the American Mathematical Society, Finite Fields and their Applications* and for books edited by *Springer Italia, European Mathematical Society*.

SERVICES TO NATIONAL SCIENTIFIC COMMUNITY

- 1) Albo Revisori MIUR since February 2012.
- 2) Selected by INdAM for ANVUR 2012.

CONFERENCE ORGANIZATION

- 1) Euroconference - VBAC 2001, "*Geometry of Moduli Spaces*", Rome, 11-15 Sept. 2001.
- 2) Supporting organizer for Perspectives in classification and moduli theory, Cortona, 14-20 Oct. 2002. Organizing committee: L. Caporaso, A.F. Lopez, M. Manetti.
- 3) Meeting on Algebraic Varieties, Rome, 18-20 Dec. 2003.
- 7) Scientific and organizing member for "MJdR, a conference in honour of Marialuisa J. de Resmini", Rome, 24-25 Sep. 2009.
- 4) Workshop on Classical Algebraic Geometry, Rome, 9-11 Feb. 2011.
- 5) Scientific organizer of *Sezione: Geometria Algebrica XIX* Convegno Unione Matematica Italiana, Bologna, 12-17 Sep. 2011.
- 10) Scientific organizer "Two days in Rome II", Rome, 2-3 Feb 2012.
- 11) Scientific organizer "Algebraic Geometry: III to II", Rome, 16-17 Feb 2012.

SCIENTIFIC COMMITTEE SERVICES

EXTRA DEPARTMENT

- 1) Member of the scientific committee **valutazione comparativa** Ricercatore Universitario (Researcher) - MAT/03 - Geometria - Univ. PADOVA - Faculty INGEGNERIA - G.U. n. 15, 22/02/2005.
- 2) Member of the committee at INdAM, INdAM fellowships for Laurea Specialistica, 2006/2007.
- 3) Member of the Ph.D. committee - XXI Ciclo - Univ. ROMA TRE - 28/05/2009. Candidate: Margarida Melo.
- 4) Named by MIUR member of the committee **Conferma** - "Ruolo Professori Associati" - S.S.D. MAT/03 (GEOMETRIA). Candidate: Prof. F. Russo.

IN DEPARTMENT

- 1) Member of "Commissione Scientifica", Dip. Matematica - U. Roma "Tor Vergata", since 2007.
- 2) Member of Ph.D. school in Mathematics, Dip. Matematica - U. Roma "Tor Vergata", since 2009.
- 3) Member of the scientific committee - **Esame passaggio anno** Ph.D. in Mathematics - XX Ciclo - U. Roma "Tor Vergata" - disciplines: Algebra and Geometry, Sep. 2010.
- 4) Member of the scientific committee - **Esame accesso** to Ph.D. in Mathematics - XXVII Ciclo - U. Roma "Tor Vergata" - Sep. 2011.
- 5) Member of the scientific committee - **Esame passaggio anno** Ph.D. in Mathematics - XX Ciclo - U. Roma "Tor Vergata" - disciplines: Algebra and Geometry, Sep. 2011.

SUPERVISING/MENTORING

- 1) Supervisor for the research problem "*Geometric k -normality of nodal curves on surfaces*", A. Arsie and C. Galati, **Pragmatic 2003** - Catania, 9 - 28 June 2003.
- 2) Mentor of Dott. L. Benzo (XXVI Ciclo) - Ph.D. in Mathematics - U. Roma "Tor Vergata"
- 3) Lecturer of **Curve algebriche, divisori speciali e schemi di Hilbert** (with C. Ciliberto), Ph.D. in Mathematics - U. Roma "Tor Vergata", March-May 2010/2011.

PROFESSIONAL ASSOCIATIONS

- 1) Member of **U.M.I.**, since 1996.
- 2) Member of **INdAM-GNSAGA**, since 1997.
- 3) Member of **EAGER** since 1997.
- 4) Member of the research group **Geometria Algebrica, Aritmetica e Differenziale**, Dip. Matematica, U. Roma Tre (Head: A.F. Lopez), since 2000.
- 5) Member of PRIN-MIUR groups (Head A. Verra) since 2002.
- 6) Member of GRIFGA (consortium CNRS-INdAM) since 2008.

TEACHING

TEACHING PUBLICATIONS

[1] - *Matrici e vettori. Corso di base di geometria e algebra lineare*, with A. Verra (U. Roma Tre) - *Scienza e Tecnica*, **6**, Carocci Editore, Roma, 2007 (364 pag. ISBN 978-88-430-4466-5).

COURSES

- 1) Algebra, resp. G. Boffi, 30/01/98 - 15/06/98, *INdAM*.
- 2) GE4 - Geometria IV modulo, resp. A.F. Lopez, Corso di Laurea in Matematica - III Anno, U. "Roma Tre", 1998-1999.
- 3) "Cultore della Materia" **Geometria**, Dip. Matematica, U. "Roma Tre", 1998-1999.
- 4) "Professore a contratto integrativo retribuito", GE1 - Geometria I modulo, Corso di Laurea in Matematica - I Anno, U. "Roma Tre", 1999-2000.
- 5) "Professore a contratto integrativo retribuito", GE2 - Geometria II modulo, Corso di Laurea in Matematica - I Anno, U. "Roma Tre", 1999-2000.
- 6) "Professore a contratto integrativo retribuito", GE3 Geometria III modulo, Corso di Laurea in Matematica - II Anno, U. "Roma Tre", 2000-2001.
- 7) Istituzioni di Matematiche 1, resp. B. Nelli, Corso di Laurea in Scienze Ambientali - I Anno - U. "L'Aquila", 2001-2002.
- 8) Matematica, corso di Laurea in Scienze Biologiche e Biotecnologie - I Anno - U. "L'Aquila", 2001-2002.
- 9) Algebra, resp. C.M. Scoppola, Corso di Laurea in Matematica - III Anno - U. "L'Aquila", 2002-2003.
- 10) Matematica Discreta, resp. B. Nelli, Corso di Laurea in Informatica - I Anno - U. "L'Aquila", 2002-2003.
- 11) Matematica, Corso di Laurea in Biotecnologie - I Anno - U. "L'Aquila", 2003-2004.
- 12) Geometria 3, resp. E. Musso, Corso di Laurea in Matematica - II Anno - U. "L'Aquila", 2003-2004.
- 13) Geometria 2, resp. A. Biancofiore, Corso di Laurea in Matematica - I Anno - U. "L'Aquila", 2004-2005.
- 14) Geometria 3, resp. E. Musso, Corso di Laurea in Matematica - II Anno - U. "L'Aquila", 2004-2005.
- 15) Matematica Discreta 2, Corso di Laurea in Informatica - I Anno - U. "L'Aquila", 2004-2005.
- 16) Geometria 2, Corso di Studi in Ingegneria Edile e Edile/Architettura - I Anno - U. Roma "Tor Vergata", 2005-2006.
- 17) Geometria 2, Corso di Studi in Ingegneria Edile e Edile/Architettura - I Anno - U. Roma "Tor Vergata", 2006-2007.
- 18) Geometria e Algebra - II ciclo, Corso di Studi in Ingegneria Elettronica - I Anno - U. Roma "Tor Vergata", 2006-2007.
- 19) Matematica Discreta, Corso di Studi in Ingegneria Modelli e Sistemi - I Anno - U. Roma "Tor Vergata", 2006-2007.

- 20) Geometria ed Algebra, Corso di Studi in Ingegneria Meccatronica - I Anno - U. Roma "Tor Vergata", 2007-2008.
- 21) Geometria 2, Corso di Studi in Ingegneria Edile e Edile/Architettura - I Anno - U. Roma "Tor Vergata", 2007-2008.
- 22) Geometria (10 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - I Anno - U. Roma "Tor Vergata", 2008-2009.
- 23) Complementi di Geometria (2 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - II-V Anno - U. Roma "Tor Vergata", 2008-2009.
- 24) Geometria (10 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - I Anno - U. Roma "Tor Vergata", 2009-2010.
- 25) Complementi di Geometria (2 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - II-V Anno - U. Roma "Tor Vergata", 2009-2010.
- 26) Geometria (9 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - I Anno - U. Roma "Tor Vergata", 2010-2011.
- 27) Geometria e Algebra tensoriale: complementi (2 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - II-V Anno - U. Roma "Tor Vergata", 2010-2011.
- 28) Geometria (9 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - I Anno - U. Roma "Tor Vergata", 2011-2012.
- 29) Geometria e Algebra tensoriale: complementi (2 CFU), Corso di Studi in Ingegneria Edile ed Edile Architettura - II-V Anno - U. Roma "Tor Vergata", 2011-2012.

TEACHING IN THE PH.D. SCHOOL IN MATHEMATICS

- 1) "Curve algebriche, divisori speciali e schemi di Hilbert" (with C. Ciliberto), Ph.D. in Mathematics - U. Roma "Tor Vergata", March-May 2010/2011.

TEACHING ACTIVITIES

- 1) Mentoring activities (P.O.R.), 2002/2003, "La Geometria delle coniche e le sue applicazioni" - U. L'Aquila, 28 Feb 2002.
- 2) Organization of lecture series *Messaggi Cifrati* (with N. Gavioli), May 2002, U. L'Aquila, 12^a **Settimana della Cultura Scientifica**.
- 3) Mentoring activities, 2003/2004, Faculty Scienze MM. FF. e NN., U. L'Aquila, "Commissione Orientamento in Matematica".
- 4) Mentoring activities, 2004/2005, Faculty Scienze MM. FF. e NN., U. L'Aquila, "Commissione Orientamento in Matematica".
- 5) Organization of lecture series *Messaggi Cifrati* (with N. Guglielmi, D. Amadori), March 2004, U. L'Aquila, 15^a **Settimana della Cultura Scientifica**.
- 6) Thesis advisor "Laurea Quadriennale in Matematica", 2003-2004, U. L'Aquila.
- 7) Responsible **Attività Formative**, Corso di Studi Ingegneria Modelli e Sistemi - U. Roma "Tor Vergata", 2006-2007.
- 5) Responsible of "Tutorati ai corsi di Geometria, Facoltà di Ingegneria" - U. Roma "Tor Vergata", 2005-2011.

DEPARTMENT/FACULTY SERVICES

- 1) Member of **Giunta di Dipartimento**, Dip. Matematica - U. L' Aquila, 2002-2005.
- 2) Member of **Commissione Orientamento** - Consiglio Area Didattica in Matematica - U. L' Aquila, 2003-2005.
- 3) Member of **Consiglio Corso di Studi "Ingegneria Edile ed Edile Architettura"** - U. Roma " Tor Vergata", since 2005.
- 4) Member of **Consiglio di Facoltà Ingegneria** - U. Roma "Tor Vergata", since 2006.
- 5) Responsible of the web page research group *Geometria Algebrica, Aritmetica e Teoria dei Numeri*, Dip. Matematica, U. Roma "Tor Vergata", since 2006.
- 6) Responsible of *Algebraic Geometry* seminar, Dip. Matematica, U. Roma "Tor Vergata", since 2006.
- 7) Member of several committees at Consiglio Corso di Studi Ingegneria Edile e Edile/Architettura, U. Roma "Tor Vergata", since 2009.