

CURRICULUM VITÆ OF ANGELO VISTOLI

Born in Massa Lombarda (RA), Italy, on June 1, 1958.

INSTITUTIONAL ADDRESS

Scuola Normale Superiore, Piazza dei Cavalieri 7, 56126 Pisa, Italy.

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EDUCATION

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| Jun. 1, 1987 | Ph.D. in Mathematics from the Massachusetts Institute of Technology. Thesis advisor: Prof. Michael Artin. |
| Jul. 16, 1981 | Laurea in Matematica with honors from Università di Bologna. |

EMPLOYMENT

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| Nov. 2006 – Present | Full Professor, Scuola Normale Superiore (Pisa, Italy). |
| Nov. 1993 – Oct. 2006 | Full Professor, Università di Bologna (Italy). |
| Nov. 1990 – Oct. 1993 | Full Professor, Università della Basilicata, Potenza (Italy). |
| Jul. 1987 – Jun. 1990 | Benjamin Pierce Lecturer, Assistant Professor in Mathematics, Harvard University. |

LONG TERM VISITING POSITIONS

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| Feb. 2009 – May 2009 | Research Professor, Mathematical Sciences Research Institute, Berkeley. Special program on Algebraic Geometry. |
| Aug. 2000 – Jul. 2001 | Visiting Professor, Department of Mathematics, University of Utah. |

- Sep. 1996 – Jul. 1997 Invited Visiting Position, Harvard University.
 Sep. 1992 – Dec. 1992 Invited Visiting Position, Brandeis University.
 Sep. 1991 – Dec. 1991 Invited Visiting Position, Massachusetts Institute of
 Technology.

ADMINISTRATIVE POSITIONS AT THE SCUOLA NORMALE SUPERIORE

- Oct. 2016 – Present Dean of the Faculty of Sciences.
 Nov. 2013 – Present Director of Graduate Studies in Mathematics.

SEMINARS AND SHORT VISITS

- 2017 Columbia University, Brown University, Harvard University, Stony
 Brook University.
 2016 Australian National University in Canberra, Freie Universität (Berlin).
 2015 University of British Columbia (Vancouver), Tata Institute (Mumbai).
 2014 Columbia University, Courant Institute (New York University), Duke
 University, Brown University.
 2013 Ecole Normale Supérieure de Lyon, Université de Bordeaux.
 2012 Ecole Normale Supérieure de Lyon, Università di Firenze, University
 of British Columbia (Vancouver), Università di Pavia, Université de
 Bordeaux, Massachusetts Institute of Technology.
 2011 Cambridge University, Imperial College (London), Université de
 Montpellier 2.
 2010 University of British Columbia (Vancouver), Université de Lille.
 2009 University of British Columbia (Vancouver), Stony Brook University,
 Université de Lille, University of Zürich.
 2008 Alfred Renyi Institute of Mathematics of the Hungarian Academy of
 Sciences (Budapest).
 2007 Università di Roma Tor Vergata, Université Joseph Fourier (Grenoble),
 Universität Duisburg-Essen, University of British Columbia (Vancou-
 ver), University of Wisconsin at Madison.
 2006 Université de Lille, Université de Nice, University of British Columbia
 (Vancouver), University of Missouri at Columbia, Brown University,
 Università di Roma *La Sapienza*.
 2005 Brown University, University of British Columbia (Vancouver), Cam-
 bridge University, University of Aberdeen, University of Southamp-
 ton.
 2004 Harvard University, University of Utah, University of Missouri at
 Columbia, Ohio State University at Columbus, Università di Pisa,
 Università di Roma III.

- 2003 Université Joseph Fourier (Grenoble), Harvard University, Ohio State University at Columbus, Georgia Technology Institute.
- 2002 University of British Columbia (Vancouver), Mathematical Sciences Research Institute (Berkeley), University of California at Berkeley.
- 2001 University of Minnesota, Boston University, University of Missouri at Columbia, University of New Mexico.
- 2000 Boston University, University of Wisconsin at Madison, University of Arizona.
- 1999 University of Utah, University of California at Irvine.
- 1998 Università di Pisa, Max-Planck-Institut (Bonn).
- 1997 University of Georgia at Athens, Università di Roma *La Sapienza*.
- 1996 University of Missouri at Columbia, University of Texas at Austin.
- 1995 University of Chicago.
- 1994 Harvard University, Princeton University.
- 1993 Université de Paris VII, Tel Aviv University.
- 1992 University of Southern California, University of California at Los Angeles.
- 1990 Bergen University, University of Oslo.
- 1989 University of Chicago.
- 1988 University of Pennsylvania.

RESEARCH INTERESTS

- (1) Moduli theory, algebraic stacks.
- (2) Logarithmic geometry.
- (3) Essential dimension
- (4) Actions of algebraic groups, equivariant K-theory, equivariant cohomology, equivariant intersection theory.

RESEARCH ARTICLES

- (1) (with Niels Borne) The Nori fundamental gerbe of a fibered category, *J. Algebraic Geom.* **24** (2015), no. 2, 311–353.
- (2) (with Zinovy Reichstein), A genericity theorem for algebraic stacks and essential dimension of hypersurfaces, *J. Eur. Math. Soc.* **15** (2013), 1999–2026.
- (3) (with Dajano Tossici) On the essential dimension of infinitesimal group schemes, *Amer. J. Math.* **135** (2013), 103–114.
- (4) (with Niels Borne) Logarithmic structures and parabolic sheaves, *Adv. Math.*, **231** (2012), 1327–1363.

- (5) (with Michele Bolognesi), Stacks of trigonal curves, *Trans. Amer. Math. Soc.*, **364** (2012), 3365–3393.
- (6) (with Dan Abramovich, Martin Olsson) Twisted stable maps to tame Artin stacks, *J. Algebraic Geom.* **20** (2011), 299–377.
- (7) (with Patrick Brosnan, Zinovy Reichstein) Essential dimension of moduli of curves and other algebraic stacks (with an appendix by Najmuddin Fakhruddin), *J. Eur. Math. Soc.* **13** (2011), 1079–1112.
- (8) (with Patrick Brosnan, Zinovy Reichstein) Essential dimension, spinor groups, and quadratic forms, *Ann. of Math.* **171** (2010), 533–544.
- (9) (with Dan Abramovich and T. Graber) Gromov–Witten theory of Deligne–Mumford stacks, *Amer. J. of Math.* **130** (2008), 1337–1398.
- (10) (with Dan Abramovich, Martin Olsson) Tame stacks in positive characteristic, *Ann. Inst. Fourier* **58** (2008), 1057–1091.
- (11) On the Chow ring and the cohomology of the classifying space of PGL_p , *J. Reine Angew. Math.* **610** (2007), 181–227.
- (12) (with Alberto Molina) On the Chow rings of classifying spaces for classical groups, *Rend. Sem. Mat. Univ. Padova* **116** (2006), 271–298.
- (13) (with Zinovy Reichstein) Birational isomorphisms between twisted group actions, *J. Lie Theory* **16** (2006), 791–802.
- (14) (with Dan Abramovich) Twisted stable maps and quantum cohomology of stacks, in *Intersection theory and moduli*, ICTP Lecture Notes **19** (2004), 97–138.
- (15) (with Andrew Kresch) On coverings of Deligne–Mumford stacks and surjectivity of the Brauer map. *Bull. London Math. Soc.* **36** (2004), 188–192.
- (16) (with Alessandro Arsie) Stacks of cyclic covers of projective spaces, *Compos. Math.* **140** (2004), 647–666.
- (17) (with Dan Abramovich, Alessio Corti) Twisted bundles and admissible covers, *Comm. Algebra* **31** (special volume in honor of S. Kleiman’s 60th birthday) (2003), 3547–3618.
- (18) (with Gabriele Vezzosi) Higher algebraic K-theory for actions of diagonalizable groups, *Invent. Math.* **153** (2003), 1–44.
- (19) (with Dan Abramovich) Compactifying the space of stable maps, *J. Amer. Math. Soc.* **15** (2002), 27–75.
- (20) (with Dan Abramovich, Tom Graber) Algebraic orbifold quantum products, in *Orbifolds in mathematics and physics (Madison, WI, 2001)*, (editors A. Adem, J. Morava and Y. Ruan), Contemporary Mathematics **310**, A.M.S. (2002), 1–24.
- (21) (with Gabriele Vezzosi) Higher algebraic K-theory of group actions with finite stabilizers, *Duke Math. J.* **113** (2002), 1–55.
- (22) (with Dan Edidin, Brendan Hassett and Andrew Kresch) Brauer groups and quotient stacks, *Amer. J. Math.* **123** (2001), 761–777.

- (23) (with Dan Abramovich) Complete moduli for fibered surfaces, in G. Ellingsrud, W. Fulton, A. Vistoli (eds.), *Recent Progress in Intersection Theory*, Proceedings of the *International Conference on Intersection Theory*, Bologna, December 15–20, 1997, Birkhäuser 2000) 3–31.
- (24) The Jacobian conjecture in dimension 3 and degree 3, *J. Pure Appl. Algebra* **142** (1999), 79–89.
- (25) The Chow ring of \mathcal{M}_2 , *Invent. Math.* **131** (1998), 635–644, an appendix to *Equivariant Intersection Theory*, by D. Edidin and W. Graham.
- (26) (with Shun-Ichi Kimura) Chow rings of infinite symmetric products, *Duke Math. J.* **85** (1996), 411–430.
- (27) The number of reducible hypersurfaces in a pencil, *Invent. Math.* **112** (1993), 247–262.
- (28) Higher equivariant K-theory for finite group actions, *Duke Math. J.* **63** (1991), 399–419.
- (29) Equivariant Grothendieck groups and equivariant Chow groups, in E. Ballico, F. Catanese e C. Ciliberto (eds.), *Classification of Irregular Varieties*, Lecture Notes in Mathematics **1515**, Springer–Verlag (1992), 112–133.
- (30) The Hilbert stack and the theory of moduli of families, in S. Coen (ed.) *Seminari di Geometria*, Dipartimento di Matematica, Università di Bologna (1991).
- (31) Characteristic classes of principal bundles in algebraic intersection theory, *Duke Math. J.* **58** (1989), 299–355.
- (32) Intersection theory on algebraic stacks and on their moduli spaces, *Invent. Math.* **97** (1989), 613–670.
- (33) Alexander duality in intersection theory, *Compos. Math.* **70** (1989), 199–225.
- (34) (with Anna Rosolini) The Penrose transform and the topology of certain algebraic varieties, *Lett. Math. Phys.* **12** (1986), 7–13.
- (35) Chow groups of quotient varieties, *J. Algebra* **107** (1987), 410–424.
- (36) (with Silvio Greco) On the construction of rational surfaces with assigned singularities, in *Algebraic geometry—open problems* (Ravello, 1982), Lecture Notes in Mathematics **997**, Springer–Verlag, Berlin (1983), 210–217.

ACCEPTED FOR PUBLICATION

- (1) (with Zinovy Reichstein) On the dimension of the locus of determinantal hypersurfaces, 18 pages, available at <http://arxiv.org/abs/1602.08623>, accepted for publication in *Canad. J. Math.* .
- (2) (with Mattia Talpo) The Kato-Nakayama space as a transcendental root stack, 27 pages, available at <http://arxiv.org/abs/1611.04041>, accepted for publication in *Int. Math. Res. Notices* .

BOOK CHAPTERS

- (1) Notes on Grothendieck topologies, fibered categories and descent theory, in B. Fantechi, L. Göttsche, L. Illusie, S. Kleiman, N. Nitsure, A. Vistoli, *Fundamental Algebraic Geometry: Grothendieck's FGA explained*, *Mathematical Surveys and Monographs* **123** (2006), A.M.S., Providence RI, 352 p.
- (2) (with Mattia Talpo) Deformation theory from the point of view of fibered categories, G. Farkas, I. Morrison (editors), *Handbook of moduli*, International Press, Boston (2013).

ARTICLES FOR THE GENERAL PUBLIC

- (1) Groupoids: a local theory of symmetry, *Isonomia (rivista online di filosofia dell'Università di Urbino)*, <http://isonomia.uniurb.it/wp-content/uploads/2016/12/2011Vistoli.pdf> (2011).
- (2) (with Mirella Manaresi) Alcune riflessioni su *Fermat's last theorem*, in *Matematica e cultura in Europa*, a cura di Mirella Manaresi, Springer-Verlag Italia (2005). Translated as: A few reflexions on *Fermat's last theorem*, in *Mathematics and Culture in Europe*, edited by Mirella Manaresi, Springer-Verlag, Berlin (2007).
- (3) Un matematico legge *Proof*, in *Matematica e cultura in Europa*, a cura di Mirella Manaresi, Springer-Verlag Italia (2005). Translated as: A mathematician reads *Proof*, in *Mathematics and Culture in Europe*, edited by Mirella Manaresi, Springer-Verlag, Berlin (2007).

PREPRINTS

- (1) (with Niels Borne) Fundamental gerbes, 33 pages, available at <http://arxiv.org/abs/1610.07341>.
- (2) (with Mattia Talpo) The motivic class of the classifying stack of the special orthogonal group, 6 pages, available at <http://arxiv.org/abs/1609.07864>.
- (3) (with Damiano Fulghesu) The Chow Ring of the Stack of Smooth Plane Cubics, 17 pages, available at <http://arxiv.org/abs/1606.06052>.
- (4) (with Mattia Talpo) Infinite root stacks and quasi-coherent sheaves on logarithmic schemes, 57 pages, available at <http://arxiv.org/abs/1410.1164>.

UNPUBLISHED WORKS

- (1) (with Patrick Brosnan, Zinovy Reichstein) Essential dimension and algebraic stacks, 52 pages, available at <http://arxiv.org/abs/math.AG/0701903>.

- (2) On the minimal compactification of a polynomial in two variables, 5 pages, available at <http://arxiv.org/abs/math.AG/9904035>.
- (3) The deformation theory of local complete intersections, 52 pages, available at <http://arxiv.org/abs/alg-geom/9703008>.

EDITORIAL ACTIVITIES

- (1) From March 2013: Member of the Editorial Board of *Algebraic Geometry*, an open access journal owned by the *Foundation Compositio Mathematica*.
- (2) From March 2009: Member of the Editorial Board of the *Annali della Scuola Normale Superiore, Classe di Scienze*.
- (3) *Advances in Mathematics*, volume 198, issues 1 and 2 (2005), in honor of the 70th birthday of Michael Artin. Edited by: Johan de Jong, Eric Friedlander, Lance W. Small, John Tate, Angelo Vistoli.
- (4) G. Ellingsrud, W. Fulton, A. Vistoli (eds.), *Recent Progress in Intersection Theory*, Proceedings of the *International Conference on Intersection Theory*, Bologna, December 15–20, 1997, Birkhäuser 2000.

CONFERENCES AND SCHOOLS ORGANIZED

- (1) *Fundamental Groups in Arithmetic and Algebraic Geometry*, December 16–20, 2013, De Giorgi Center, Pisa, Italy. Organizers: N. Borne, T. Szamuely, A. Vistoli.
- (2) *Giornate di Geometria Algebrica ed argomenti correlati XI*, May 23–26, 2012, De Giorgi Center, Pisa (Italy). A conference for young Italian algebraic geometers. Organizers: A. Lopez, R. Pardini, A. Vistoli.
- (3) *School and Workshop on Aspects of Moduli*, June 15–28, 2008, De Giorgi Center, Pisa, Italy. Organizers: Dan Abramovich, D. Maulik, R. Vakil, A. Vistoli.
- (4) *Giornate di Geometria Algebrica ed argomenti correlati VII*, May 18–22, 2004, Rimini (Italy). A conference for young Italian algebraic geometers. Organizers: Marco Andreatta, Angelo Lopez, Mirella Manaresi, Luca Migliorini, Angelo Vistoli.
- (5) *Advanced School in Basic Algebraic Geometry*, July 7–18, 2003, I.C.T.P., Trieste, Italy. Organizers: L. Göttsche, C.S. Seshadri, A. Vistoli.
- (6) Special session on *Quantum Cohomology and Moduli Spaces* in the *First Joint International Meeting AMS–UMI*, Pisa, June 12–16, 2002. Organizers: A. Bertram, A. Vistoli.
- (7) *Workshop on K-theory and Algebraic Cycles*, Università di Bologna, February 7–9, 2002. Scientific Committee: M. Manaresi, C. Pedrini, Gabriele Vezzosi, A. Vistoli.

- (8) *Algebraic Stacks, Intersection Theory, and Non-Abelian Hodge Theory*, a semester-long program that took place at MSRI in the Spring of 2002. Scientific committee: W. Fulton, L. Katzarkov, M. Kontsevich, Y. Manin, R. Pandharipande, T. Pantev, C. Simpson and A. Vistoli.
- (9) *Second international conference on intersection theory*, Department of Mathematics, University of Bologna, December 13–18, 1999. Scientific committee: G. Ellingsrud, S. Kleiman, A. Vistoli.
- (10) *International conference on intersection theory*, Department of Mathematics, University of Bologna, December 15–20, 1997. Scientific committee: G. Ellingsrud, W. Fulton, A. Vistoli.
The proceedings of this conference appeared as: G. Ellingsrud, W. Fulton, A. Vistoli (eds.) *Recent Progress in Intersection Theory*, Birkhäuser (2000).

SUMMER SCHOOLS

- (1) *Gerbes*, Course of four lectures within the *Summer School: Algebraic Stacks and Related Topics*, Mainz Germany, August 31 – September 4, 2015. Teachers: J. Alper, M. Lieblich, M. Olsson, A. Vistoli.
- (2) *The Nori fundamental group scheme*, Course of four lectures within the *Summer School 2014 of the IRTG “Moduli and Automorphic Forms”*, Budapest, August 25–30, 2014. Teachers: F. Charles, G. Chenevier, D. van Straten, A. Vistoli.
- (3) *September Algebraic Geometry School on Equivariant Intersection Theory*, Lukecin, Poland, September 11–17, 2005. Teachers: A. Kresch, A. Vistoli.
- (4) *Grothendieck topologies and descent theory*, Course of ten lectures within the *Advanced School in Basic Algebraic Geometry*, I.C.T.P., Trieste, Italy, 7–18 July 2003. Teachers: L. Göttsche, L. Illusie, S. Kleiman, N. Nitsure, A. Vistoli.
- (5) *Introduction to algebraic stacks*, Course of five lectures within the *School on Intersection theory and Moduli*, I.C.T.P., Trieste, Italy, 9–19 September, 2002. Teachers: Dan Abramovich, A. Bertram, K. Behrend, E. Frenkel, D. Huybrechts, M. Lehn, J. Li, F. Loeser, A. Vistoli.
- (6) *Summer school on algebraic stacks*, Cortona, Italy. Teachers: A. Vistoli, C. Walter. Three weeks in August 1997.

SELECTED INVITED TALKS IN INTERNATIONAL CONFERENCES

- (1) *Equivariant geometry and algebraic stacks*, Australian National University (Kioloa Campus), March 14–18, 2016.
- (2) *Algebraic Geometry conference*, Bangalore (India) 10th December 10–16, 2015.

- (3) *XX Congresso dell'Unione Matematica Italiana*, Siena (Italy), September 7–12, 2015 (plenary speaker).
- (4) *Mathematics of the 21st century: the vision of Alexander Grothendieck*, Montpellier, June 15–19, 2015
- (5) AGNES 2012, Brown University, Providence, October 26–30, 2012.
- (6) *Algebraic Stacks: Progress and Prospects*, Banff, March 26–30, 2012.
- (7) Series of 3 lectures on *Essential dimension* in the conference *Géométrie algébrique complexe*, C.I.R.M. (Marseille, France), March 12–16, 2012.
- (8) *Moduli spaces and moduli stacks*, Columbia University, New York, May 23–27, 2011.
- (9) *Log Conf 2010: Current trends in logarithmic geometry*, Bordeaux, June 22–25, 2010.
- (10) *Giornata INdAM*, Catania (Italy), June 4, 2010.
- (11) *Conference on Algebraic Geometry and Arithmetic*, February 16–20, 2010, Essen, Germany.
- (12) *Arithmetic Geometry and Moduli Spaces in Algebraic Geometry*, August 24–28, 2009, HangZhou, China.
- (13) *Aspects de la géométrie algébrique: la postérité mathématique de Grothendieck*, January 12–16, 2009, IHES Paris.
- (14) Series of 5 lectures on *Gerbes and Essential Dimension* in the conference *Géométrie Algébrique en Liberté*, April 20–26, 2008, Madrid, Spain.
- (15) *Workshop on Stacks in Geometry and Topology*, Fields Institute, Toronto, Canada, May 14–18, 2007.
- (16) *AMS Special Session on Algebraic Geometry and Moduli Spaces*, Storrs (CT), U.S.A., October 29, 2006.
- (17) *Algebraic groups, quadratic forms and related topics*, Banff (Canada), September 2–7, 2006.
- (18) *Summer Institute in Algebraic Geometry*, session on *Geometric Langlands, D-modules & categorical stacks*, Seattle, Washington, July 25 – August 12, 2005.
- (19) *Conference on Algebraic Topology*, Cracow, Poland, June 27 – July 1, 2005.
- (20) *Groupoids and Stacks in Physics and Geometry*, C.I.R.M. (Marseille, France), June 28 – July 2, 2004.
- (21) *School & Workshop on Gromov–Witten Invariants*, I.C.T.P., Trieste, Italy, June 21–26, 2004.
- (22) Series of 4 lectures on *Algebraic stacks and group actions* in the conference *Géométrie algébrique complexe 2*, C.I.R.M. (Marseille, France), December 15–19, 2003.
- (23) *Conference on Intersection theory and Moduli*, I.C.T.P., Trieste, Italy, September 23–27, 2002.

- (24) *Algebraische K-Theorie*, Mathematisches Forschungsinstitut Oberwolfach, Germany, August 4–10, 2002.
- (25) *Conference in Honor of Steven Kleiman's 60th Birthday*, Norwegian Academy of Science, Oslo, May 30–June 2, 2002.
- (26) *Workshop on intersection theory on algebraic stacks, program on Algebraic Stacks, Intersection Theory, and Non-Abelian Hodge Theory*, M.S.R.I., Berkeley, March 11–15, 2002.
- (27) *Introductory workshop of the program Algebraic Stacks, Intersection Theory, and Non-Abelian Hodge Theory*, M.S.R.I., Berkeley, January 10–16, 2002.
- (28) *Workshop on Mathematical Aspects of Orbifold String Theory*, University of Wisconsin, Madison, May 4–8, 2001.
- (29) *Conference on Intersection Theory Dedicated to the Memory of Wolfgang Vogel*, Ruhr University Bochum, Germany, September 2–4, 1999.
- (30) *Europroj Annual Conference*, Toledo, Spain, September 22–27, 1998.
- (31) *Miniactivity on affine algebraic geometry*, Max-Planck-Institut, Bonn, Germany, August 20 – September 12, 1998.

DOCTORAL STUDENTS

- (1) Andrea Di Lorenzo (Scuola Normale Superiore). Thesis topic: Stacks of curves of low genus.
- (2) Laurent Schadeck (Scuola Normale Superiore). Thesis topic: K-theory of tame stack.
- (3) Giulio Bresciani (Scuola Normale Superiore). Thesis topic: Essential dimension of profinite gerbes.
- (4) Roberto Pirisi (Scuola Normale Superiore). Finished in July 2015. Title of thesis: *Cohomological invariants of algebraic curves*.
- (5) Mattia Talpo (Scuola Normale Superiore). Finished in February 2014. Title of thesis: *Infinite root stacks of logarithmic schemes and moduli of parabolic sheaves*.
- (6) Fabio Tonini (Scuola Normale Superiore). Finished in May 2013. Title of thesis: *Stacks of ramified Galois covers*.
- (7) Flavia Poma (SISSA, jointly with Barbara Fantechi). Finished in October 2012. Title of thesis: *Gromov-Witten theory of tame Deligne-Mumford stacks in mixed characteristic*.
- (8) Luis Alberto Molina Rojas (Università di Roma III). Finished in April 2007. Title of thesis: *The Chow ring of the classifying space of Spin_8* .
- (9) Damiano Fulghesu (Scuola Normale Superiore, Pisa). Finished in June 2005. Title of thesis: *The Chow ring of the stack of nodal rational curves of genus 0*.

- (10) Marco Barone (Università di Bologna). Finished in May 2004. Title of thesis: *The stack of triple covers of Brauer–Severi schemes of dimension 1.*
- (11) Silvano Baggio (Università di Bologna). Finished in May 2004. Title of thesis: *Equivariant K-theory of smooth toric varieties.*
- (12) Elisa Targa (Università di Bologna). Finished in May 2003. Title of thesis: *The Chow ring of the classifying space of PGL_n is not generated by Chern classes, when n is an odd prime.*
- (13) Gabriele Vezzosi (Scuola Normale Superiore, Pisa). Finished in May 1999. Title of thesis: *The Chow ring of the classifying stack of PGL_3 .*

Last updated: April 27, 2017