

# CURRICULUM VITAE OF ROBERTO PIGNATELLI

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Full Professor in Geometry

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## CAREER SINCE GRADUATION

- 2024/10-today: Full Professor at the University of Trento
- 2014/10-2024/09: Associate Professor at the University of Trento
- 2003/01-2014/09: Assistant Professor at the University of Trento
- 2001/09-2002/12: Assistant Professor at the Universität Bayreuth (DE)
- 2000/04-2001/08: Assistant Professor at the Universität Göttingen (DE)

## DEGREES AWARDED

- 2000, February 25<sup>th</sup>: Ph. D. in Mathematics at the University of Pisa
- 1994, July 14<sup>th</sup>: *Diploma in Matematica* at the *Scuola Normale Superiore di Pisa*
- 1994, July 14<sup>th</sup>: M.Sc. in Mathematics with highest honors (*110/110 e lode*) at the University of Pisa

# MEMBERSHIPS

## COMMITTEES FOR THE EVALUATION OF SCIENTIFIC RESEARCH

- 2024, 2023, 2022, 2021: member of the Expert Panel “[ST-1 Mathematics](#)” of the National Science Center, Poland, financing research projects based in Poland
- 2010: member of the committee assigning the price “Federigo Enriques” for the best Ph.D. thesis in Algebraic Geometry
- Member of committees for the defense of Ph.D Theses in Mathematics at the Universities of Pisa (2021), Pavia (2013), Milano (2009) and a few times in Trento

## COMMITTEES FOR PERMANENT POSITIONS

- Member of committees for permanent positions as associate professor in Geometry at the Universities of Torino (2021) and Verona (2015)
- Member of the committee for a permanent position as assistant professor (*Ricercatore*) in Geometry at the Università di Pavia (2007)

## COMMITTEES FOR TEMPORARY POSITIONS/FELLOWSHIPS

- Member of committees for temporary positions as assistant professor (RTD/A) in Geometry at the Università di Pavia (2020) and Padova (2019)
- Member of committees for several Post-Doc positions in Mathematics at the Università di Trento
- Member of the committee for the admission at the Ph.D. program in Mathematics of the Università di Trento in 2014
- 2025, 2024, 2023, 2021: member of the committee assigning fellowships of the Istituto Nazionale di Alta Matematica Francesco Severi for research initiation, for students enrolled in a master’s degree

## EDITORIAL BOARDS

- 2020-today: member of the [Topical Advisory Panel](#) for [Mathematics](#).

## MEMBERSHIPS OF RESEARCH GROUPS

- 2023-2025: PRIN 2022 *Birational geometry of moduli spaces and special varieties*, funded by the Italian Ministry of University and Research *MIUR* for two years: 215213€
- 2019-2022: PRIN 2017 *Moduli Theory and Birational Classification*, funded by the Italian Ministry of University and Research *MIUR* for three years: 359000€
- 2017-2020: PRIN 2015 *Geometria delle varietà algebriche*, funded by the Italian Ministry of University and Research *MIUR* for three years starting on February 5<sup>th</sup>, 2017: 141000€
- 2013-2018: Futuro in Ricerca 2012 *Spazi di Moduli e Applicazioni* funded by the Italian Ministry of University and Research *MIUR*: 915300€
- 2013-2015: PRIN 2010-2011 *Geometria delle varietà algebriche* funded by the Italian Ministry of University and Research *MIUR*: 141000€
- 2010-2013: *Espaços de moduli en Geometria Algébrica* funded by the Fundação para a Ciência e a Tecnologia (Portugal): 80392€
- 2008-2010: PRIN 2007 *Proprietà geometriche delle varietà reali e complesse* funded by the Italian Ministry of University and Research *MIUR*: 135080€
- 2006-2008: PRIN 2005 *Proprietà geometriche delle varietà reali e complesse* funded by the Italian Ministry of University and Research *MIUR*: 235000€

## MEMBERSHIPS OF MATHEMATICAL SOCIETIES

- European Mathematical Society
- Unione Matematica Italiana
- Istituto Nazionale di Alta Matematica – Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni

# VISITING

## RESEARCH VISITS

- Shanghai Jiao Tong University (CN), September 15<sup>th</sup>-25<sup>th</sup>, 2024
- Instituto Superior Técnico Lisboa (PT), August 20<sup>th</sup>-28<sup>th</sup>, 2023
- Universität Bayreuth (DE), March 2<sup>nd</sup>- 17<sup>th</sup>, 2022
- Universität Bayreuth (DE), April 8<sup>th</sup> -21<sup>st</sup> and April 29<sup>th</sup>- May 12<sup>th</sup>, 2018
- University of Coimbra (PT), April 16<sup>th</sup>-23<sup>rd</sup>, 2013
- Instituto Superior Técnico Lisboa (PT), June 28<sup>th</sup>-Juli 1<sup>st</sup>, 2012
- University of Coimbra (PT), June 18<sup>th</sup>-28<sup>th</sup>, 2012
- University of Coimbra (PT), June 6<sup>th</sup>-13<sup>th</sup>, 2009
- Instituto Superior Técnico Lisboa (PT), May 29<sup>th</sup>-June 6<sup>th</sup>, 2009
- Sogang University Seoul (KR), May 17<sup>th</sup>-27<sup>th</sup>, 2008
- Warwick University (GB), January 13<sup>th</sup>- May 1<sup>st</sup>, 2008
- Universität Bayreuth (DE), September 21<sup>st</sup>- December 21<sup>st</sup>, 2007
- Institute of Mathematics of the Romanian Academy “Simion Stoilow” (RO), March 4<sup>th</sup> - April 3<sup>rd</sup>, 2002
- Warwick University (GB), February 19<sup>th</sup>- March 25<sup>th</sup>, 2001

## TEACHING ASSIGNMENTS

- January-February, 2025: *Fibered Varieties*, at the University of Pavia (IT, for Ph.D. students)
- March 3<sup>rd</sup>-16<sup>th</sup>, 2022: *Abelian Covers and Deformation Theory*, at the University of Bayreuth (DE, for Ph.D. students)
- May 25<sup>th</sup>-29<sup>th</sup>, 2015: [Surfaces of general type](#), during the activity [Algebraic Varieties and their Moduli](#), Centro di Ricerca Matematica Ennio De Giorgi, Pisa
- March 2<sup>nd</sup>-5<sup>th</sup>, 2010: exercise sessions during the *KIAS Winter School on Algebraic Geometry*, KIAS, Seoul (KR)

# CONFERENCES & TALKS

## CONFERENCES ORGANIZED

- Palermo, July 23<sup>rd</sup>-24<sup>th</sup>, 2024: [\*Arithmetic and Geometry of Low-Dimensional Algebraic Varieties\*](#)
- Cetraro, September 18<sup>th</sup>-22<sup>nd</sup>, 2023: [\*Aspects of Algebraic Geometry\*](#)
- Gargnano, September 19<sup>th</sup>-24<sup>th</sup>, 2022: [\*Complex Algebraic Geometry and related topics – in honor of Fabrizio Catanese on the occasion of his 70<sup>th</sup> birthday\*](#)
- Levico Terme, January 7<sup>th</sup>-11<sup>th</sup>, 2019: [\*A Journey through Projective and Birational Geometry – Together with Marco Andreatta\*](#)
- Trento, July 11<sup>th</sup>-13<sup>th</sup>, 2018: [\*Recent Progress in the Arithmetic and Geometry of K3 surfaces\*](#)
- Levico Terme, August 31<sup>st</sup>- September 4<sup>th</sup>, 2015: [\*Classification of Projective Varieties\*](#)
- Cetraro, September 8<sup>th</sup>-15<sup>th</sup>, 2013: [\*Classification of Algebraic Varieties and Related Topics\*](#)
- Trento, February 10<sup>th</sup>, 2012: [\*A Day of Algebraic Geometry\*](#)
- Levico Terme, June 4<sup>th</sup>-9<sup>th</sup>, 2007: [\*Algebraic Geometry in Higher Dimension\*](#)

## PARTICIPATION AT CONFERENCES AS INVITED SPEAKER

- Shanghai (CN), September 26<sup>th</sup>-29<sup>th</sup>, 2024: [2024 Workshop on Birational Geometry](#)
- Pavia, February 26<sup>th</sup>-28<sup>th</sup>, 2024: [Winter Workshop on Algebraic Geometry](#)
- Pipa (BR), December 11<sup>th</sup>-15<sup>th</sup>, 2023: [Algebraic Geometry, Lipschitz geometry and Singularities](#)
- Bedlewo (PL), April 16<sup>th</sup>-20<sup>th</sup>, 2023: [Explicit Algebraic Geometry](#)
- Portoroz (SI), June 20<sup>th</sup>-26<sup>th</sup>, 2021: [8<sup>th</sup> European Congress of Mathematics](#) – Minisymposium Arithmetic and Geometry of Algebraic Surfaces (MS - ID 45)
- Milano, September 16<sup>th</sup>-17<sup>th</sup>, 2019: [Geometria in Bicocca 2019](#)
- Pavia, September 2<sup>nd</sup>-7<sup>th</sup>, 2019: [XXI Congresso dell'Unione Matematica Italiana](#)
- Cetraro, September 6<sup>th</sup>-15<sup>th</sup>, 2018: [Differential, Algebraic and Topological Methods in Complex Algebraic Geometry](#)
- Leicester (GB), June 5<sup>th</sup>-7<sup>th</sup>, 2018: [Workshop on Galois-covers, Grothendieck Teichmüller Theory and Dessins d'Enfants](#)
- Rio de Janeiro (BR), August 29<sup>th</sup>- September 2<sup>nd</sup>, 2016: [1<sup>st</sup> Joint Meeting Brazil-Italy in Mathematics](#)
- Roma, January 11<sup>th</sup>-15<sup>th</sup>, 2016: [Birational Geometry of Surfaces](#)
- Lisbon (PT), July 1<sup>st</sup>-3<sup>rd</sup>, 2015: [Conference on Algebraic Surfaces \(M. Mendes Lopes 60<sup>th</sup> birthday\)](#)
- Angers (FR), June 2<sup>nd</sup>-6<sup>th</sup>, 2014: *Moduli Spaces of Real and Complex Varieties*
- Trento, February 3<sup>rd</sup>-4<sup>th</sup>, 2014: *2<sup>nd</sup> FIRB Moduli Spaces and Their Applications Workshop*
- Bielefeld (DE), December 6<sup>th</sup>, 2013: *A superficial afternoon*
- Cosenza, June 12<sup>th</sup>-14<sup>th</sup>, 2013: *New Trends in Algebraic Geometry*
- Trento, October 9<sup>th</sup>-11<sup>th</sup>, 2012: *3<sup>rd</sup> SAGA Workshop*
- Newcastle (GB), June 7<sup>th</sup>-9<sup>th</sup>, 2012: *Beauville Surfaces and Groups*
- Pavia, March 8<sup>th</sup>-9<sup>th</sup>, 2012: *Giornate di Geometria 3*
- Bayreuth (DE), February 21<sup>st</sup>-23<sup>rd</sup>, 2012: *Treffen der Forschergrupper 790*

- Bologna, September 12<sup>th</sup>-17<sup>th</sup>, 2011: *XIX Congresso dell'Unione Matematica Italiana*
- Padova, May 16<sup>th</sup>-25<sup>th</sup>, 2011: *Two weeks of Classical Algebraic Geometry*
- Shanghai (CN), May 10<sup>th</sup>-14<sup>th</sup>, 2010: *Algebraic Geometry on Varieties and Manifolds*
- Seoul (KR), March 2<sup>nd</sup>-5<sup>th</sup>, 2010: *Algebraic Surfaces and their Compact Moduli*
- Milano, November 19<sup>th</sup>-20<sup>th</sup>, 2009: *Some Topics in Commutative Algebra and Algebraic Geometry*
- Oberwolfach (DE), September 27<sup>th</sup>- October 3<sup>rd</sup>, 2009: *Complex Algebraic Geometry*
- Pisa, October 29<sup>th</sup>-31<sup>st</sup>, 2008: *Workshop on Algebraic Surfaces*
- Almería (ES), June 6<sup>th</sup>-10<sup>th</sup>, 2005: *International Mediterranean Congress in Mathematics*
- Oberwolfach (DE), February 13<sup>th</sup>-19<sup>th</sup>, 2005: *Komplexe Algebraische Geometrie*
- Utrecht (NL), June 4<sup>th</sup>-6<sup>th</sup>, 2004: *Algebraic Geometry and Commutative Algebra*
- Milano, April 1<sup>st</sup>-2<sup>nd</sup>, 2004: *Algebraic Curves, Monodromy, and Related Topics*
- Taipei (TW), March 22<sup>nd</sup>-28<sup>th</sup>, 2004: *Higher Dimensional Algebraic Geometry*
- Oberwolfach (DE), February 15<sup>th</sup>-21<sup>st</sup>, 2004: *Classification of Surfaces of General Type with Small Invariants*
- Ferrara, September 3<sup>rd</sup>-7<sup>th</sup>, 2002: *Birational and Projective Geometry of Algebraic Varieties*
- Cambridge (GB), March 8<sup>th</sup>-10<sup>th</sup>, 2001: *COW Extended Activity*
- Gargnano, May 23<sup>rd</sup>-27<sup>th</sup>, 2000: *Giornate di Geometria Algebrica e Argomenti Correlati V*
- Furore, October 8<sup>th</sup>-13<sup>th</sup>, 1999: *Workshop on Algebraic Surfaces*
- Pisa, June 8<sup>th</sup>-13<sup>th</sup>, 1998: *Meeting of Young European Researchers in R.A.A.G.*

## SELECTED TALKS

- National Center for Theoretical Sciences, Taipei (TW), April 26<sup>th</sup>, 2024: [\*Fibrations in \(1,2\)-Surfaces\*](#)
- Università di Pisa, April 3<sup>rd</sup>, 2024: *Fibrations in (1,2)-Surfaces*
- Università di Bari, July 6<sup>th</sup>, 2023: *Varieties of small volume*
- University of Warwick (GB), April 21<sup>st</sup>, 2020: *Rigid compact complex surfaces that are not infinitesimally rigid*
- Università di Padova, April 2<sup>nd</sup>, 2019: *Rigid but not infinitesimally rigid compact complex manifolds*
- Università di Pavia, March 5<sup>th</sup>, 2019: *On the Albanese morphism of a mixed quotient surface*
- Universität Bayreuth (DE), April 18<sup>th</sup>, 2018: *Surfaces of general type with canonical map of high degree*
- Università di Genova, March 9<sup>th</sup>, 2017: *On semi-isogenous mixed surfaces*
- University of Coimbra (PT), July 17<sup>th</sup>, 2013: *On quasi-étale quotients of products of two curves*
- Università di Ferrara, October 23<sup>rd</sup>, 2012: *3-varietà di Calabi-Yau con divisori ampi rigidi*
- University of Coimbra (PT), June 27<sup>th</sup>, 2012: *Even surfaces with genus 4 and bigenus 13*
- Università di Milano, October 25<sup>th</sup>, 2011: *Una nuova costruzione di superfici di genere 0*
- Università di Pisa, February 16<sup>th</sup>, 2011: *Deformazioni di superfici di Burniat*
- University of Coimbra (PT), June 9<sup>th</sup>, 2009: *Compact complex surfaces of genus 0*
- Instituto Superior Técnico Lisboa (PT), June 2<sup>nd</sup>, 2009: *Compact complex surfaces of genus 0*
- Università di Pavia, April 29<sup>th</sup>, 2009: *Surfaces with canonical map composed with a pencil*
- Università di Padova, April 8<sup>th</sup>, 2009: *Superfici di tipo generale con mappa canonica composta con un fascio*



- Sogang University (KR), May 24<sup>th</sup>, 2008: *The relative canonical algebra of a fibration and the construction of surfaces of general type*
- Seoul National University (KR), May 21<sup>th</sup>, 2008: *Compact complex surfaces whose holomorphic differential forms are identically zero*
- University of Leicester (GB), January 31<sup>st</sup>, 2008, Colloquium talk: *Compact complex surfaces and fibrations*
- Università di Roma "Tor Vergata", May 11<sup>th</sup>, 2007: *Superfici con  $p_g=q=1$*
- Università di Pavia, March 16<sup>th</sup>, 2006: *Superfici con  $p_g=4$*
- Università di Genova, April 26<sup>th</sup>, 2005: *Fibrazioni di genere basso e superfici con  $q=p_g=1$*
- Università di Pisa, March 3<sup>rd</sup>, 2004: *Curve di genere 3 ed un problema di Horikawa*
- Università di Pavia, February 22<sup>nd</sup>, 2002: *Fibrazioni di genere basso*
- Università di Milano, February 21<sup>st</sup>, 2002: *Fibrazioni di genere piccolo*

# PUBLICATIONS

## PREPRINTS

- A. —, *On canonical threefolds near the Noether line*, [arXiv:2410.06009](https://arxiv.org/abs/2410.06009).
- B. S. COUGHLAN, Y. HU, —, T. ZHANG, *Threefolds on the Noether line and their moduli spaces*, [arXiv:2409.17847](https://arxiv.org/abs/2409.17847).
- C. M. PENEGINI, —, *Automorphisms of a family of surfaces with  $p_g=q=2$  and  $K^2=7$* , [arXiv:2407.19206](https://arxiv.org/abs/2407.19206), to appear on Rend. Mat. Appl. (7).

## RESEARCH PAPERS

- 1. F. FALLUCCA, —, *Smooth  $k$ -double covers of the plane of geometric genus 3*, [arXiv:2107.07966](https://arxiv.org/abs/2107.07966), Rend. Mat. Appl. (7), Volume 45 (2024), 153-180.
- 2. M. ANDREATTA, —, *Fano's Last Fano*, [arxiv:2209.07390](https://arxiv.org/abs/2209.07390), Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. **34** (2023), no. 2, 359-381. <https://doi.org/10.4171/RLM/1010>
- 3. F. FALLUCCA, —, *Some surfaces with canonical map of degree 4*, [arXiv:2107.07966](https://arxiv.org/abs/2107.07966), Port. Math. **80** (2023), no 3/4, 391-400. <https://doi.org/10.4171/PM/2106>
- 4. S. COUGHLAN, —, *Simple fibrations in  $(1,2)$ -surfaces*, [arxiv:2207.06845](https://arxiv.org/abs/2207.06845), Forum of Mathematics, Sigma, Volume **11**, 2023, e43. <https://doi.org/10.1017/fms.2023.41>
- 5. D. CONTI, A. GHIGI, —, *Topological types of actions on curves*, [arxiv:2207.00981](https://arxiv.org/abs/2207.00981), J. Symb. Comput. **118C** (2023), 17-31. <https://doi.org/10.1016/j.jsc.2023.01.002>
- 6. C. GLEISSNER, —, C. RITO, *New surfaces with canonical map of high degree*. [arxiv:1807.11854](https://arxiv.org/abs/1807.11854), Commun. Anal. Geom. **30** (2022), no. 8, 1809-1821. <https://doi.org/10.4310/CAG.2022.v30.n8.a5>
- 7. D. CONTI, A. GHIGI, —, *Some evidence for the Coleman-Oort conjecture*, [arxiv:2102.12349](https://arxiv.org/abs/2102.12349), RACSAM **116**, 50 (2022). <https://doi.org/10.1007/s13398-021-01195-0>
- 8. M. PENEGINI, —, *Note on a family of surfaces with  $p_g=q=2$  and  $K^2=7$* , [arxiv:2012.05636](https://arxiv.org/abs/2012.05636), Bollettino U.M.I. **15** (2022), no. 1-2, 305-331. <https://doi.org/10.1007/s40574-021-00305-5>
- 9. C. BOEHNING, HANS-CHRISTIAN GRAF VON BOTHMER, —, *A rigid, not infinitesimally rigid*

- surface with  $K$  ample, [arxiv:2010.14371](https://arxiv.org/abs/2010.14371), Bollettino U.M.I. **15** (2022), no. 1-2, 57-85.  
<https://doi.org/10.1007/s40574-021-00296-3>
10. I. C. BAUER, —, *Rigid but not infinitesimally rigid compact complex manifolds*. [arxiv:1805.02559](https://arxiv.org/abs/1805.02559), Duke Math. J. **170** (2021), no. 8, 1757-1780.  
<https://doi.org/10.1215/00127094-2020-0062>
11. F. F. FAVALE, C. GLEISSNER, —, *The pluricanonical systems of a product-quotient variety*. Galois Covers, Grothendieck-Teichmüller Theory and Dessins d'Enfants - Interactions between Geometry, Topology, Number Theory and Algebra, 89-119, Springer Proc. Math. Stat. **330**, Springer, Cham, 2020 [https://doi.org/10.1007/978-3-030-51795-3\\_6](https://doi.org/10.1007/978-3-030-51795-3_6)
12. —, *Quotients of the square of a curve by a mixed action, further quotients and Albanese morphisms*, Rev. Mat. Complut. **33** (2020), 911-931  
<https://doi.org/10.1007/s13163-019-00337-8>
13. —, F. POLIZZI, *A family of surfaces with  $p_g=q=2$ ,  $K^2=7$  and Albanese map of degree 3*, Math. Nachr. **290** (2017), no. 16, 2684-2695
14. F.F. FAVALE, —, *A twisted bicanonical system with base points*, Ann. Univ. Ferrara Sez. VII Sci. Mat. **63** (2017), no. 1, 113-131
15. I. C. BAUER, —, *Product-quotient surfaces: new invariants and algorithms*, Groups, Geom. Dyn. **10** (2016), no. 1, 319-363
16. D. FRAPPORTI, —, *Mixed quasi-étale quotients with arbitrary singularities*, Glasg. Math. J. **57** (2015), no. 1, 143-165
17. G. BINI, F.F. FAVALE, J. NEVES, —, *New examples of Calabi-Yau 3-folds and genus zero surfaces*, Commun. Contemp. Math. **16** (2014), no. 2, 1350010, 20pp.
18. F. CATANESE, W. LIU, —, *The moduli space of even surfaces of general type with  $K^2=8$ ,  $p_g=4$  and  $q=0$* , J. Math. Pures Appl. (9) **101** (2014), no. 6, 925-948
19. J. NEVES, —, *Unprojection and deformations of tertiary Burniat surfaces*, Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) **13** (2014), no. 1, 225-254
20. E. BALLICO, —, L. TASIN, *Weighted hypersurfaces with either assigned volume or many vanishing plurigenera*, Comm. Algebra **41** (2013), no. 10, 3745-3752
21. I. C. BAUER, —, *The classification of minimal product-quotient surfaces with  $p_g=0$* , Math. Comp. **81** (2012), no. 280, 2389-2418

22. I. C. BAUER, F. CATANESE, F. GRUNEWALD, —, *Quotients of products of curves, new surfaces with  $p_g=0$  and their fundamental groups*, Amer. J. Math. **134** (2012), no. 4, 993-1049
23. —, *On surfaces with a canonical pencil*, Math. Z. **270** (2012), no. 1-2, 403-422
24. —, C. RASO, *Riemann surfaces with a quasi large abelian group of automorphisms*, Matematiche (Catania) **66** (2011), no. 2, 77-90
25. —, *Some (big) irreducible components of the moduli space of minimal surfaces of general type with  $p_g=q=1$  and  $K^2=4$* , Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. **20** (2009), no. 3, 207-226
26. I. C. BAUER, —, *Surfaces with  $K^2=8$ ,  $p_g=4$  and canonical involution*, Osaka J. Math. **46** (2009), no. 3, 799-820.
27. F. TONOLI, —, *On Wahl's proof of  $\mu(6)=65$* , Asian J. Math. **13** (2009), no. 3, 307-310
28. I. C. BAUER, F. CATANESE, —, *The moduli space of surfaces with  $K^2=6$  and  $p_g=4$* , Math. Ann. **336** (2006), no. 2, 421-438
29. S. MANFREDINI, —, *Ruled surfaces and generic coverings*, Topology Appl., **153** (2006), no. 14, 2613-2623
30. F. CATANESE, —, *Fibrations of low genus, I*, Ann. Sci. École Norm. Sup. (4) **39** (2006), no. 6, 1011-1049
31. S. MANFREDINI, —, *Chisini's conjecture for curves with singularities of type  $x^n = y^m$* , Michigan Math. J. **50** (2002), no. 2, 287-312
32. I. C. BAUER, F. CATANESE, —, *Canonical rings of surfaces whose canonical system has base points*, Complex Geometry (Göttingen 2000) 37-72, Springer, Berlin, 2002
33. F. CATANESE, —, *On simply connected Godeaux surfaces*, Complex Analysis and Algebraic Geometry, 117-153, de Gruyter, Berlin, 2000
34. S. MANFREDINI, —, *Generic covers branched over  $\{x^n = y^m\}$* , Topology Appl. **103** (2000), no. 1, 1-31

IN PREPARATION (THE TITLES ARE PROVISIONAL)

- a. S. COUGHLAN, Y. HU, —, T. ZHANG, *Threefolds on the second Noether line*.
- b. A. GHIGI, M. LÖNNE, —, *Galois covers of the projective line given by generalized dihedral groups*.

SURVEYS

1. —, *On quasi étale quotients of a product of two curves*, Beauville Surfaces and Groups, 149-170, Springer Proc. Math.Stat. **123**, Springer, Cham, 2015
2. —, *Computer aided algebraic geometry: constructing surfaces of genus zero*, Future vision and trends on shapes, geometry and algebra, 95-105, Springer Proc. Math. Stat. **84**, Springer, London, 2014
3. I. C. BAUER, F. CATANESE, —, *Surfaces of general type with geometric genus zero: a survey*, Complex and Differential Geometry, 1-48, Springer Proc. Math. **8**, Springer, Heidelberg, 2011
4. I. C. BAUER, F. CATANESE, —, *Complex surfaces of general type: some recent progress*, Global aspects of complex geometry 1-58, Springer, Berlin, 2006

## ABSTRACTS OF TALKS

- I. —, *Varietà rigide non infinitesimalmente rigide*, XXI Convegno dell'Unione Matematica Italiana, 2019, p. 421
- II. —, *Deformazioni di Burniat terziarie*, XIX Convegno dell'Unione Matematica Italiana, Conferenze e Comunicazioni, Zanichelli 2011, p. 365
- III. —, *Surfaces with  $p_g=0$ : computer aided constructions*, Report n. 44/2009, Workshop "Complex Algebraic Geometry", September 27<sup>th</sup>-October 2<sup>nd</sup>, 2009, M.F.O., 2009, 2527-2530
- IV. —, *Fibrations of low genus and surfaces with  $q=p_g=1$* , Report n. 7/2005, Workshop "Komplexe Algebraische Geometrie", February 13<sup>th</sup>-19<sup>th</sup>, 2005, M.F.O., 2005, pp. 448-450
- V. —, *Extrasymmetric matrices and surfaces with  $p_g=4$  and  $K^2=6$* , Report n. 9/2004, Mini-Workshop "Classification of Surfaces ...", February 15<sup>th</sup> -21<sup>st</sup>, 2004, M.F.O., 2004, pp. 466-470
- VI. F. CATANESE, —, *On pencils of small genus*, Report n. 9/2004, Mini-Workshop "Classification of Surfaces ...", February 15<sup>th</sup>-21<sup>st</sup>, 2004, M.F.O., 2004, pp. 454-457

## REVIEWS

- 41 reviews for the Mathematical Reviews of the American Mathematical Society (MathSciNet)
- 76 reviews for Zentralblatt MATH

## DATABASES

Pignatelli has produced, in collaboration with D. Conti and A. Ghigi, a public [database](#) of topological types of holomorphic actions of a finite group  $G$  on a compact Riemann surface  $S$  of genus at least 2 with  $S/G$  rational.

The database is *faithful* in the sense that it contains exactly one record for each topological type.

The database is *complete* up to genus 27, in the sense that it contains all topological types of group actions on curves of genus between 2 and 27.

It also contains “most” group actions up to genus 128.

## REFEREEING

- 2024, 2023, 2022, 2020, 2014: evaluating research projects for the National Science Center, Poland
- 2024: evaluating research projects for the Swiss National Science Foundation, Switzerland
- 2022, 2014, 2011: evaluating research projects for the Chilean Government Commission for Scientific and Technological Development
- 2015: evaluating research projects for the Università dell’Insubria
- 2015: evaluating research projects for the Università di Firenze
- 2014: evaluating research projects for the Università di Padova
- Regular activity as referee for several international mathematical journals

# SERVICE AT THE UNIVERSITY OF TRENTO

## CURRENTLY

- 2024 – today: Delegate of the Director of the Department of Mathematics for Teaching Activities
- 2020 – today: Advisor of study for the Curriculum *Advanced Mathematics* of the Master of Science in Mathematics of the University of Trento
- 2019 – today: Delegate of the Director of the Department of Mathematics for the program [Scholars at Risk](#)
- 2013 – today: Person in charge of the Erasmus Exchange programs with the Universities of Barcellona, Bergen and Tübingen
- 2004 – today: Person in charge of the Erasmus Exchange programs with the Universität Bayreuth

## FORMERLY

- 2021-2024: Delegate of the Director of the Department of Mathematics for the diversity policies
- 2012-2015: Delegate of the Director of the Department of Mathematics for the International Relations of the Department
- 2008-2015: Coordinator of the Double Degree Program in Mathematics among the Universities of Trento and Tübingen
- 2011: Person in charge of the tutoring program of the Department of Mathematics
- 2004-2008: Member of the advisory board (Consiglio di Amministrazione) of the Università di Trento



# MENTORSHIP

## POST-DOCS

- 2023: Head of the research (tutor) of the contract (Contratto di collaborazione occasionale) at the Department of Mathematics of the University of Trento of Federico Fallucca, title *Classificazione di superfici prodotto-quotiente di genere basso*
- 2016-2017: Head of the research (tutor) of the Post-doc fellowship (Assegno per collaborazione ad attività di ricerca) at the Department of Mathematics of the University of Trento of Christian Gleissner, title *Geometry of Algebraic Varieties*

## GRADUATE STUDENTS

Currently coadvisor (with F. Neumann from Università di Pavia) of the Ph.D studies of Luca Dal Molin

Advisor of the Ph.D. Theses of

- Federico Fallucca, double Ph.D in Mathematics with highest honors at the Università di Trento and with mark 1.0 at the university of Bayreuth on September 26<sup>st</sup>, 2023; Title of the Thesis: *On the degree of the canonical map of surfaces of general type*
- Nicola Cancian, Ph.D in Mathematics with highest honors at the Università di Trento on July 21<sup>st</sup>, 2017; Title of the Thesis: *On Semi-isogenous Mixed Surfaces*
- Davide Frapporti, Ph.D in Mathematics at the Università di Trento on February 10<sup>th</sup>, 2012; Title of the Thesis: *Mixed quasi-étale surfaces and new surfaces of general type*

## UNDERGRADUATE STUDENTS

Advisor of

- 1 Double Degree Thesis in Mathematics at the Universities of Trento and Tübingen
- 16 M.Sc. Theses in Mathematics at the Università di Trento
- 24 Bachelor Theses in Mathematics at the Università di Trento

# THIRD MISSION

## CONTINUOUS TRAINING OF TEACHING STAFF

- 2014 – today: Member of the Scientific Committee of the [Laboratorio di Didattica e Comunicazione della Matematica](#) of the Department of Mathematics
- 2019: Lecture “Dimostrazioni e Confutazioni” in the Workshop [Dall'esplorazione alla dimostrazione nell'insegnamento della geometria. Riflessioni per la scuola secondaria](#) for teachers of the secondary school
- 2015 – 2021: Delegate of the Director of the Department of Mathematics for the *tavolo di coordinamento su Scuola, Formazione e TFA* of the University of Trento, that deals with all the activities of the University concerning teacher training
- 2014 – 2016: Responsible for the Department of Mathematics for the teaching qualification courses “TFA” and “PAS” for the teaching class “A059”, i.e. for teaching mathematics in lower secondary school

## COURSES FOR TEACHING QUALIFICATION IN SCHOOLS

- Elementi di Didattica della Geometria per la Scuola Secondaria di Primo Grado – Percorso di Formazione Iniziale dei Docenti delle Scuole Secondarie di Primo e Secondo Grado PF30-PF60 – Trento – A.Y. 2024/25
- Didattica della Matematica – PAS per la classe A059 – Trento – A.Y. 2014/15-2015/16
- Didattica della Matematica – TFA per la classe A059 – Trento – A.Y. 2014/15

# TEACHING

## LECTURE NOTES

- [Advanced Geometry](#)
- [Surfaces of general type](#)

## LECTURES FOR GRADUATE STUDENTS

- Abelian Covers and Deformation Theory – Ph.D. in Mathematics at the Universität Bayreuth – Bayreuth (DE) – A.Y. 2021/22
- Complex Algebraic Geometry – Ph.D. in Mathematics of the University of Trento – Trento – A.Y. 2013/14

## LECTURES FOR UNDERGRADUATE STUDENTS

- Geometria e algebra lineare con elementi di statistica – Laurea in Ingegneria Civile – Trento – A.Y. 2023/24-2024/25
- Advanced Geometry – Laurea Magistrale in Matematica – Trento – A.Y. 2009/10-2010/11, 2012/13-2024/25
- Percorso di Approfondimento in Fisica – Laurea in Fisica – Trento – A.Y. 2023/24
- Geometria 1 – Laurea in Fisica – Trento – A.Y. 2016/17-2022/23
- Geometria A – Laurea in Matematica – Trento – A.Y. 2015/16
- Fondamenti Matematici per l'Informatica – Laurea in Informatica – Trento – A.Y. 2014/15
- Algebraic Geometry II - Laurea Magistrale in Matematica – Trento – A.Y. 2013/14
- Geometria I - Laurea in Matematica e Laurea in Fisica – Trento – A.Y. 2011/2012
- Istituzioni di Geometria Superiore 2 – Laurea e Laurea Specialistica in Matematica – Trento – A.Y. 2006/2007, 2008/2009
- Istituzioni di Geometria Superiore – Laurea e Laurea Specialistica in Matematica – Trento – A.Y. 2003/2004-2006/2007, 2008/2009
- Matematica Discreta I – Laurea in Informatica – Trento – A.Y. 2005/2006
- Geometria e Algebra – Laurea in Ingegneria delle Telecomunicazioni – Trento – A.Y.

2004/2005

- Algebra – Lehramt Gymnasium Mathematik – Göttingen (DE) – A.Y. 2000/01
- Proseminar über Geometrie – Diplom Mathematik - Göttingen (DE) – A.Y. 1999/2000

#### EXERCISE SESSIONS

- Geometria IV– Laurea in Matematica – Trento – A.Y. 2003/04
- Geometria V– Laurea in Matematica – Trento – A.Y. 2003/04
- Istituzioni di Geometria Superiore – Laurea e Laurea Specialistica in Matematica – Trento – A.Y. 2002/03
- Algebra – Diplom Mathematik – Bayreuth (DE) – A.Y. 2002/03
- Lineare Algebra II – Diplom Mathematik – Bayreuth (DE) – A.Y. 2001/02
- Analysis I – Diplom Mathematik – Bayreuth – A.Y. 2001/02
- Algebra – Diplom Mathematik – Göttingen (DE) – A.Y. 1999/00
- Matematica Discreta – Laurea in Informatica – Pisa – A.Y. 1997/98
- Geometria II (A) – Laurea in Informatica – Pisa – A.Y. 1995/96-1996/97

#### TUTORING

- Differential- und Integralrechnung II – Diplom Mathematik – Göttingen (DE) – A.Y. 2000/01
- Differential- und Integralrechnung I – Diplom Mathematik – Göttingen (DE) – A.Y. 2000/01

Trento, October♦ 17<sup>th</sup>, 2024

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♦ An updated version of this Curriculum Vitae may be available online at [pignatelli.maths.unitn.it/EngCurriculum.pdf](http://pignatelli.maths.unitn.it/EngCurriculum.pdf) .