

Francesco Strazzanti

Personal data

Name	Francesco
Surname	Strazzanti
Date of birth	March 29, 1988
Citizenship	Italian
Email	francesco.strazzanti@unime.it
Website	https://sites.google.com/site/francescostrazzanti

Academic positions

31/12/2024 - present Tenure track researcher at the Department of Mathematics and Computer Sciences, Physical Sciences and Earth Sciences of the University of Messina, Italy.

01/03/2023 - 30/12/2024 Researcher (Ricercatore di tipo A) at the Department of Mathematics of the University of Genoa, Italy.

20/08/2022 - 28/02/2023 Postdoc position at the Department of Mathematics “Giuseppe Peano” of the University of Turin, Italy.

01/05/2021 - 19/08/2022 Postdoc position at the Department of Mathematics “Giuseppe Peano” of the University of Turin, Italy.

01/05/2020 - 30/04/2021 Postdoc position at the Department of Mathematics of the University of Bologna, Italy.

01/04/2019 - 31/03/2020 Postdoc position funded by INdAM at the Department of Mathematics and Computer Science of the University of Catania, Italy.

19/09/2018 - 18/03/2019 Grant for research activity abroad by INdAM ay 2018-2019 at the Institute of Mathematics of the University of Barcelona (IMUB), Spain.

23/05/2018 - 22/08/2018 Research fellow at the Department of Mathematics and Computer Science of the University of Catania, Italy.

19/01/2018 - 18/04/2018 Grant for research activity abroad by INdAM ay 2017-2018 at the Institute of Mathematics of the University of Barcelona (IMUB), Spain.

02/01/2017 - 31/12/2017 Postdoc position at the Department of Algebra and Institute of Mathematics of the University of Seville (IMUS), Spain.

Education

Ph.D in Mathematics, University of Pisa, Italy (2012 - 2016).

Thesis: *A family of quotients of the Rees algebra and rigidity properties of local cohomology modules.*

Advisor: Enrico Sbarra.

Laurea Magistrale in Mathematics (Master), University of Catania, Italy (2010 - 2012).

Thesis: *Almost Gorenstein rings* (in italian).

Advisor: Marco D’Anna.

Mark: 110/110 and honors.

Laurea in Mathematics (Bachelor), University of Catania, Italy (2007 - 2010).

Thesis: *Seminormal rings and subintegral extensions* (in italian).

Advisor: Marco D'Anna.

Mark: 110/110 and honors.

Publications and Preprints

1. M. D'Anna, F. Strazzanti, *The numerical duplication of a numerical semigroup*, Semigroup Forum **87** (2013), no. 1, 149–160.
2. V. Barucci, M. D'Anna, F. Strazzanti, *A family of quotients of the Rees Algebra*, Communications in Algebra **43** (2015), no. 1, 130–142.
3. F. Strazzanti, *One half of almost symmetric numerical semigroups*, Semigroup Forum **91** (2015), no. 2, 463–475.
4. F. Strazzanti, *Minimal genus of a multiple and Frobenius number of a quotient of a numerical semigroup*, International Journal of Algebra and Computation **25** (2015), no. 6, 1043–1053.
5. V. Barucci, M. D'Anna, F. Strazzanti, *Families of Gorenstein and almost Gorenstein rings*, Arkiv för Matematik **54** (2016), no. 2, 321–338.
6. E. Sbarra, F. Strazzanti, *A rigidity property of local cohomology modules*, Proceedings of the American Mathematical Society **145** (2017), 4099–4110.
7. A. Oneto, F. Strazzanti, G. Tamone, *One-dimensional Gorenstein local rings with decreasing Hilbert function*, Journal of Algebra **489** (2017), 91–114.
8. D. Bolognini, A. Macchia, F. Strazzanti, *Binomial edge ideals of bipartite graphs*, European Journal of Combinatorics **70** (2018), 1–25.
9. M. D'Anna, F. Strazzanti, *New algebraic properties of quadratic quotients of the Rees algebra*, Journal of Algebra and its Applications **18** (2019), no. 3, 1950047.
10. V. Barucci, F. Strazzanti, *Dilatations of numerical semigroups*, Semigroup Forum **98** (2019), no. 2, 251–260.
11. M. D'Anna, R. Jafari, F. Strazzanti, *Tangent cones of monomial curves obtained by numerical duplication*, Collectanea Mathematica **70** (2019), no. 3, 461–477.
12. F. Strazzanti, K.-i. Watanabe, *Almost symmetric numerical semigroups with odd generators* in Numerical Semigroups - IMNS 2018, Springer INdAM Series **40** (2020), 335–349.
13. A. Moscariello, F. Strazzanti, *Nearly Gorenstein vs almost Gorenstein affine monomial curves*, Mediterranean Journal of Mathematics **18** (2021), article number: 127.
14. A. Caminata, F. Strazzanti, *Nearly Gorenstein cyclic quotient singularities*, Beiträge zur Algebra und Geometrie / Contributions to Algebra and Geometry **62** (2021), 857–870.
15. M. D'Anna, F. Strazzanti, *Almost canonical ideals and GAS numerical semigroups*, Communications in Algebra **49** (2021), no. 8, 3534–3551.
16. M. D'Anna, R. Jafari, F. Strazzanti, *Simplicial affine semigroups with monomial minimal reduction ideals*, Mediterranean Journal of Mathematics **19** (2022), article number: 84.

17. F. Strazzanti, S. Zarzuela Armengou, *The Hilbert-Kunz function of some quadratic quotients of the Rees algebra*, Proceedings of the American Mathematical Society **150** (2022), 1493–1503.
18. D. Bolognini, A. Macchia, F. Strazzanti, *Cohen-Macaulay binomial edge ideals and accessible graphs*, Journal of Algebraic Combinatorics **55** (2022), 1139–1170.
19. D. Bolognini, A. Macchia, F. Strazzanti, V. Welker, *Powers of monomial ideals with characteristic-dependent Betti numbers*, Research in the Mathematical Sciences **9** (2022), article number: 26.
20. G. Caviglia, A. De Stefani, E. Sbarra, F. Strazzanti, *On the notion of sequentially Cohen-Macaulay modules*, Research in the Mathematical Sciences **9** (2022), article number 40.
21. M. D’Anna, F. Strazzanti, *When is $m : m$ an almost Gorenstein ring?*, Revista Matemática Complutense **36** (2023), 73–90.
22. D. Bolognini, A. Macchia, G. Rinaldo, F. Strazzanti, *Cohen-Macaulay binomial edge ideals of small graphs*, Journal of Algebra **638** (2024), 189–203.
23. D. Bolognini, A. Macchia, G. Rinaldo, F. Strazzanti, *A combinatorial characterization of S_2 binomial edge ideals*, European Journal of Combinatorics **126** (2025), 104123.
24. A. Moscariello, F. Strazzanti, *Nearly Gorenstein numerical semigroups with five generators have bounded type*, Communications in Algebra **53** (2025), no. 10, 4041–4052.
25. R. Jafari, F. Strazzanti, S. Zarzuela Armengou, *On nearly Gorenstein affine semigroups*, Journal of Algebra **694** (2026), 676–702.
26. P. Campochiaro, M. D’Anna, F. Strazzanti, *Some classes of one-dimensional rings characterized by their reflexive ideals*, Ricerche di Matematica **75** (2026), 941–954.
27. D.I. Stamate, F. Strazzanti, *Nearly Gorenstein and almost symmetric properties in shifted numerical semigroups*, Journal of Pure and Applied Algebra **230** (2026), no. 9, 108330.

Invited talks

Value semigroups and good semigroups (with applications to curve singularities and one-dimensional rings), Catania, Italy, June 18, 2026.

Title: *Nearly Gorenstein affine semigroup rings*

Department of Mathematics, University of Genoa, Italy, December 4, 2025.

Title: *Nearly Gorenstein semigroup rings*.

Nuovi RTT in Matematica, University of Messina, Italy, March 6, 2025.

Title: *Binomial edge ideals*.

Politecnico di Milano, Milan, Italy, December 2, 2024.

Title: *Nearly Gorenstein semigroup rings*.

Joint meeting AMS-UMI, Palermo, Italy, July 26, 2024.

Special Session: *Recent developments in commutative algebra*.

Title: *Binomial edge ideals and Serre’s condition (S_2)*.

1st Geometry and Algebra in Combinatorics Workshop, Los Silos (Tenerife), Spain, April 4, 2024.

Title: *On the type of some semigroups*.

University of La Laguna, Spain, November 14, 2023 (virtual).

Title: *Binomial edge ideals of graphs*.

GTM Seminar Genoa, Italy, June 9, 2023.

Title: *Cohen-Macaulay and S_2 binomial edge ideals*.

Workshop on Commutative Algebra and Algebraic Geometry, Catania, Italy, September 7-9, 2022.

Title: *When is $\mathfrak{m} : \mathfrak{m}$ an almost Gorenstein ring?*

University of Messina, Italy, August 1, 2022.

Title: *A conjecture on binomial edge ideals*.

Commutative Algebra, D-Modules and Singularities intertwined, La Cristalera, Miraflores de la Sierra (Madrid), Spain, June 21, 2022.

Title: *The Hilbert-Kunz function of some quadratic quotients of the Rees algebra*.

INdAM Workshop: International Meeting on Numerical Semigroups - Roma 2022, Rome, Italy, June 15, 2022.

Title: *Almost canonical ideals and GAS numerical semigroups*.

Department of Mathematics and Computer Science, University of Catania, Italy, May 30, 2022.

Title: *Cohen-Macaulay binomial edge ideals*.

Department of Mathematics, University of Genoa, Italy, March 23, 2022.

Title: *Cohen-Macaulay binomial edge ideals*.

Department of Industrial Engineering and Mathematical Sciences, Università Politecnica delle Marche, Ancona, Italy, November 16, 2021.

Title: *Cohen-Macaulay binomial edge ideals*.

Department of Mathematics “Giuseppe Peano”, University of Turin, Italy, June 16, 2021 (virtual).

Title: *Cohen-Macaulay binomial edge ideals*.

1st MIM short research course on *Affine Semigroup Rings*, Kharazmi University, Tehran, Iran, December 5, 2020 (virtual).

Title: *Almost Gorenstein and nearly Gorenstein numerical semigroup rings*.

Workshop for Young Researchers in Mathematics, Bucharest, Romania, June 4, 2019.

Title: *A family of quadratic quotients of the Rees algebra*.

Frobenius Action in Commutative Algebra: Recent Developments (FACARD), Barcelona, Spain, January 17, 2019.

Title: *A family of quadratic quotients of the Rees algebra*.

INdAM Meeting: International meeting on numerical semigroups, Cortona, Italy, September 5, 2018.

Title: *Tangent cones of monomial curves obtained by numerical duplication*.

Department of Mathematics and Computer Science, University of Catania, Italy, May 18, 2018.

Title: *Binomial edge ideals of bipartite graphs*.

Department of Mathematics and Computer Sciences, University of Barcelona, Spain, March 2, 2018.

Title: *Binomial edge ideals of bipartite graphs*.

Institute of Mathematics of the University of Seville (IMUS), Spain, November 8, 2017.

Title: *Numerical semigroups*.

Department of Mathematics, University of Pisa, Italy, September 11, 2017.

Title: *Binomial edge ideals*.

Meeting of the Catalan, Spanish, Swedish Math Societies, Umeå, Sweden, June 15, 2017.

Special Session: Numerical semigroups and applications.

Title: Numerical duplication and its associated graded ring.

Workshop for young researchers in mathematics, Bucharest, Romania, May 19, 2017.

Title: Binomial edge ideals of bipartite graphs.

Workshop on Algebra and Geometry 2017 (Thematic week on Semigroups and Applications), Badajoz, Spain, May 8, 2017.

Title: Numerical duplication and its associated graded ring.

Department of Algebra, Complutense University of Madrid, Spain, April 20, 2017.

Title: Numerical semigroups and applications.

Department of Algebra and Computer Sciences, University of Barcelona, Spain, April 6, 2017.

Title: One-dimensional Gorenstein local rings with decreasing Hilbert function.

International meeting on numerical semigroups with applications, Levico Terme, Italy, July 8, 2016.

Title: Symmetric numerical semigroups with decreasing Hilbert function.

Institute for Mathematics, University of Osnabrück, Germany, June 30, 2016.

Title: Rigidity properties of local cohomology modules.

Welcome Workshop for the special spring semester 2016, Genoa, Italy, February 1, 2016.

Title: One-dimensional Gorenstein local rings with decreasing Hilbert function.

Department of Mathematics, Royal Institute of Technology (KTH), Stockholm, Sweden, January 27, 2016.

Title: Rigidity properties of Betti numbers and local cohomology modules.

Department of Mathematics and Computer Science, University of Catania, Italy, April 1, 2015.

Title: Idealization and amalgamated duplication: an unified approach and applications.

INdAM Meeting: International meeting on numerical semigroups, Cortona, Italy, September 9, 2014.

Title: Numerical duplication of a numerical semigroup.

Contributed talks

(Upcoming) *International Meeting on Numerical Semigroups 2026, Antalya, Turkey, August 24-28, 2026.*

Title: Nearly Gorenstein affine semigroups.

International Meeting on Numerical Semigroups 2024, Jerez de La Frontera, Spain, July 12, 2024.

Title: Some asymptotic properties of shifted numerical semigroups.

28th International Conference on Applications of Computer Algebra (ACA 2023), Warsaw, Poland, July 19, 2023.

Special Session: Algebraic geometry from an algorithmic point of view.

Title: An algorithmic approach to characterize Cohen-Macaulay binomial edge ideals of small graphs.

5th Catania Combinatorial Conference HyGraDe 2022, Catania, Italy, July 6, 2022.

Title: Cut-point sets of a finite simple graph.

The 18th (Virtual) Seminar on Commutative Algebra and related topics, January 10, 2022, organized by IPM, Tehran, Iran.

Title: Almost canonical ideals and gAGL rings.

Organization of scientific meetings and schools

Commutative Algebra, Geometry and Computational Aspects, Messina, Italy, June 25-26, 2026.

Webpage: <https://sites.google.com/view/comm-algebra-geometry-messina>

CoCoA School 2025, Genoa, Italy, July 14-18, 2025.

Webpage: <https://sites.google.com/view/cocoaschool2025>

Genova-Torino-Milano Seminar: some topics in commutative algebra and algebraic geometry, Milan, Italy, February 5-6, 2024. (Member of the Scientific Committee)

Webpage: <https://sites.google.com/view/gtm2024>

Commutative algebra TOwards applications, Torino, Italy, May 22-24, 2023.

Webpage: <https://sites.google.com/view/commalgintorino>

Other participations in conferences and schools (selected)

Commutative Algebra and Algebraic Geometry in Milan, Milan, Italy, June 29 - July 3, 2026.

Modules & Rings: Recent developments in Commutative Algebra - A conference in honor of Marilina Rossi, Genoa, Italy, June 16-20, 2025.

Workshop on Commutative Algebra and Algebraic Geometry in Prime Characteristics, ICTP, Trieste, Italy, May 8-12, 2023.

Einstein Workshop on Polytopes and Algebraic Geometry, Berlin, Germany, December 2-4, 2019.

Algebraic Combinatorics in Genova, Genoa, Italy, September 11-13, 2019.

Recent developments in Commutative Algebra, Levico Terme, Italy, July 1-5, 2019.

School (and workshop) on syzygies, Trento, Italy, September 4-9, 2017.

Meeting on Commutative Algebra, Genoa, Italy, October 22-24, 2015.

Combinatorial and Experimental Methods in Commutative Algebra and Related Fields, Osnabrück, Germany, October 7-10, 2015.

Effective Methods in Algebraic Geometry (MEGA), Trento, Italy, June 15-19, 2015.

Joint meeting AMS/EMS/SPM, Porto, Portugal, June 10-13, 2015.

Minimal free resolutions, Betti numbers, and combinatorics, Edinburgh, United Kingdom, June 1-5, 2015.

HTCA 2015 - Homology: Theoretical and Computational Aspects, Genoa, Italy, February 9-13, 2015.

Summer school: Combinatorial structures in geometry, Osnabrück, Germany, October 6-9, 2014.

Meeting On Combinatorial Commutative Algebra 2014, Levico Terme, Italy, September 10-12, 2014.

Pragmatic 2014, Local cohomology and syzygies of affine algebras, Catania, Italy, June 23 - July 11, 2014.

Summer course of mathematics organized by Scuola Matematica Interuniversitaria in Perugia, Italy, July 31 - September 2, 2011. Courses attended: Algebra and Algebraic geometry.

International school in computational commutative algebra and algebraic geometry, Messina, Italy, October 18-23, 2010.

Summer course of mathematics organized by Scuola Matematica Interuniversitaria in Perugia, Italy, August 1- September 3, 2010. Courses attended: Algebra and Algebraic geometry.

Awards

Italian National Scientific Qualification (ASN) as Full Professor in the Italian higher education system, awarded in the 2023-2025 call for the disciplinary field 01/A2 - Geometry and Algebra (valid from 12/06/2026 to 12/06/2038).

Italian National Scientific Qualification (ASN) as Associate Professor in the Italian higher education system, awarded in the 2023-2025 call for the disciplinary field 01/A2 - Geometry and Algebra (valid from 12/06/2026 to 12/06/2038).

Italian National Scientific Qualification (ASN) as Associate Professor in the Italian higher education system, awarded in the 2016-2018 call for the disciplinary field 01/A2 - Geometry and Algebra (valid from 18/09/2018 to 18/09/2030).

Grants (PI)

Fondi per la Ricerca di Ateneo 2024. Grant awarded by the Department of Mathematics of the University of Genoa. Research project entitled "*Commutative Algebra, related topics and applications*", funded for the period 07/2024 - 06/2026 with € 20.000. My involvement ended in December 2024 due to a university change.

Finanziamento Attività di Base della Ricerca di Ateneo - FFABR Unime Giovani Ricercatori 2025. Grant awarded by the University of Messina. Research project entitled: "*Combinatorial aspects of Commutative Algebra*", funded for the period 22/12/25 - 31/12/26 with € 2.500.

Project memberships

INdAM - GNSAGA Project: *Cohen-Macaulay and Gorenstein rings in Commutative Algebra, Algebraic Geometry and Combinatorics*. Project No. CUP E53C24001950001.

MICINN project (Ministry of Science, Innovation and Universities - Spain): *Algebraic combinatorics and its connections to geometry*. Project No. PID2022-137283NB-C22
Webpage: <https://www.ub.edu/comb/galico>

Local project funded by the University of Genoa: *Algebra commutativa: singolarità, deformazioni e aspetti computazionali* - FRA 2022.

Local project funded by the University of Catania: *Proprietà locali e globali di anelli e di varietà algebriche* - PIACERI 2020-2022.

Plan Estatal 2013-2016 Excelencia - Proyectos I+D: *Geometría Aritmética, D-Módulos y Singularidades*. Project No. MTM2016-75027-P.
Webpage: https://investigacion.us.es/sisius/sis_proyecto.php?idproy=27699.

Local project funded by the University of Catania: *Proprietà algebriche locali e globali di anelli associati a curve e ipersuperfici*. Project No. PTR 2016-2018.

Plan Estatal 2013-2016 Excelencia - Proyectos I+D: *Geometría Algebraica y Geometría Aritmética: Métodos Diferenciales, Singularidades, Cohomología y Curvas Elípticas*. Project No. MTM2013-46231-P.
Webpage: https://investigacion.us.es/sisius/sis_proyecto.php?idproy=24322.

MIUR-DAAD Joint Mobility Program 2016: *Combinatorial and Computational Methods in Commutative Algebra*. Project No. 57267452.

Prin 2010-11: *Geometria delle varietà algebriche*.

Research in pairs with Raheleh Jafari and Marco D'Anna in the framework of the *ICTP-INdAM Research in Pairs Programme*, Catania (Italy), October 1-22, 2019.

Research Stays

University of Barcelona, Spain, April 6-16, 2024.

Free University of Berlin, Germany, October, 13-23, 2022.

University of Pisa, Italy, September 9-17, 2017.

University of Barcelona, Spain, April 2-8, 2017.

University of Osnabrück, Germany, June 27 2016- July 2, 2016.

Royal Institute of Technology (KTH), Stockholm, Sweden, January 25-29, 2016.

Philipps University of Marburg, Germany, October 12-19, 2015.

University of Duisburg-Essen, Germany, October 2-19, 2014.

Teaching - PhD level

PhD course titled *Monomial ideals in commutative algebra*, part of the PhD programme in *Pure and Applied Mathematics*, jointly offered by Politecnico di Torino, University of Turin, CIAFM, and INdAM (Italy), a.y. 2022/2023. The course consisted of 20 hours, 10 of which were taught by me.

PhD course titled *Monomial ideals in commutative algebra*, part of the PhD programme in *Pure and Applied Mathematics*, jointly offered by Politecnico di Torino, University of Turin, CIAFM, and INdAM (Italy), a.y. 2021/2022. The course consisted of 20 hours, 10 of which were taught by me.

PhD course titled *Numerical semigroups and commutative algebra* (24 hours), part of the PhD programme in Mathematics and Computational Science, Consortium of the Universities of Palermo, Catania, and Messina (Italy), a.y. 2019/2020.

Open course titled *Numerical semigroups and commutative algebra* addressed to graduate students and professors, Department of Algebra, University of Seville (Spain), 15 lessons of 90 minutes, year 2017.

Teaching - Other

(Upcoming) Course titled *Algebra Superiore mod. B* (Advanced Algebra mod. B), 48 hours, as part of the Master's Degree in Mathematics, University of Messina (Italy), a.y. 2026/2027.

(Upcoming) Course titled *Combinatorial Data Analysis*, 36 hours, as part of the Master's Degree in Data Science, University of Messina (Italy), a.y. 2026/2027.

(Upcoming) Course titled *Matematica Discreta* (Discrete Mathematics), 48 hours, as part of the Bachelor's Degree in Computer Science, University of Messina (Italy), a.y. 2026/2027.

Course titled *Algebra Superiore mod. B* (Advanced Algebra mod. B), 48 hours, as part of the Master's Degree in Mathematics, University of Messina (Italy), a.y. 2025/2026.

Course titled *Combinatorial Data Analysis*, 36 hours, as part of the Master's Degree in Data Science, University of Messina (Italy), a.y. 2025/2026.

Course titled *Didattica di Logica con riferimenti epistemologici* (Teaching Logic with Epistemological References), 12 hours, as part of the Initial Teacher Training program for upper secondary school teachers, subject area Ao41 (Computer Science and Information Technology), University of Messina (Italy), a.y. 2024/25.

Course titled *Matematica Discreta* (Discrete Mathematics), 48 hours, as part of the Bachelor's Degree in Computer Science, University of Messina (Italy), a.y. 2025/2026.

Pre-course for first-year students in Mathematics, 12 hours, University of Messina (Italy), a.y. 2025/2026.

Course titled *Algebra Superiore mod. B* (Advanced Algebra mod. B), 48 hours, as part of the Master's Degree in Mathematics, University of Messina (Italy), a.y. 2024/2025.

Part of the course titled *Algebra* (24 hours), Bachelor's Degree in Computer Science, University of Genoa (Italy), a.y. 2024/2025.

Part of the course titled *Algebra 2*, 24 hours, as part of the Bachelor's Degree in Mathematics, University of Genoa (Italy), a.y. 2024/2025.

Part of the course titled *Elementi di Matematica 2* (Elements of Mathematics 2), 30 hours, as part of the Bachelor's Degree in Chemistry, University of Genoa (Italy), a.y. 2023/2024.

Course titled *Algebra*, 48 hours, as part of the Bachelor's Degree in Computer Science, University of Genoa (Italy), a.y. 2023/2024.

Part of the course titled *Elementi di Matematica 2* (Elements of Mathematics 2), 30 hours, as part of the Bachelor's Degrees in Chemistry and Materials Science, University of Genoa (Italy), a.y. 2022/2023.

Tutor activity for the course *Algebra 1*, 50 hours, Bachelor's Degree in Mathematics, University of Turin (Italy), a.y. 2022/2023.

Tutor activity for the course *Algebra 1*, 40 hours, Bachelor's Degree in Mathematics, University of Turin (Italy), a.y. 2021/2022.

Tutor activity for the course *Algebra 2*, 30 hours, Bachelor's Degree in Mathematics, University of Turin (Italy), a.y. 2021/2022.

Tutor activity for the course *Algebra 1*, 30 hours, Bachelor's Degree in Mathematics, University of Turin (Italy), a.y. 2021/2022.

Tutor activity for the course *Algebra 1*, 30 hours, Bachelor's Degree in Mathematics, University of Bologna (Italy), a.y. 2020/2021.

Pre-course in Mathematics for first-year students, 30 hours, Department of Civil and Industrial Engineering of the University of Pisa (Italy), a.y. 2016/2017.

Supplementary teaching, 10 hours, Department of Mathematics of the University of Pisa (Italy), a.y. 2015/2016.

Supplementary teaching, Bachelor's Degree in Mathematics, 20 hours, University of Pisa (Italy), a.y. 2014/2015.

Course for OFA (Mandatory Additional Educational Requirements), Bachelor's Degree in Mathematics, 20 hours, University of Pisa (Italy), a.y. 2013/2014.

Tutor for Bachelor's Degree in Mathematics, 80 hours, University of Catania (Italy), a.y. 2011/2012.

Other

Computer skills: use of mathematical software like Macaulay 2, Cocoa, Gap, and Singular.

Language skills: Italian (mother tongue), English (fluent), Spanish (intermediate).

Referee for several mathematical journals.

Reviewer for ZbMATH.

Member of the Barcelona's node of the spanish network *Monoids and applications*.

Webpage: <http://www.ugr.es/~semigrupos/MyA/nodos-en.html>

Member of the italian *National Group for Algebraic and Geometric Structures, and their Applications* (GNSAGA - INDAM).

Webpage: <http://www.altamatematica.it/gnsaga>