

Domenico FIORENZA

Curriculum Vitae ai fini della pubblicazione

Part I – Education

| Type | Year | Institution | Notes (Degree, Experience,...) |
|-----------------------|-----------|--------------------------------|--|
| University graduation | 1996 | Università di Roma La Sapienza | Mathematics; 110/110 e lode (full marks and honours); Thesis defense: 16 July 1996. |
| Post-graduate studies | 1996-2002 | Università di Pisa | Mathematics |
| PhD | 2002 | Università di Pisa | Mathematics; PhD Thesis “Feynman diagrams, moduli spaces and the KdV hierarchy”; advisor: Enrico Arbarello; Thesis defense: 11 December 2002 |

Part II – Appointments

IIA – Academic Appointments

| Start | End | Institution | Position |
|-------|---------|--------------------------------|------------------------------|
| 2001 | 2002 | Università di Roma Tor Vergata | Assegno di Ricerca (PostDoc) |
| 2003 | 2004 | Università di Roma La Sapienza | Assegno di Ricerca (PostDoc) |
| 2005 | 2015 | Università di Roma La Sapienza | Ricercatore |
| 2015 | present | Università di Roma La Sapienza | Professore Associato |

IIB – Other Appointments

| Start | End | Institution | Position |
|------------|------------|-------------|--------------------|
| 01/02/2005 | 28/02/2005 | IHES | Visiting professor |
| 07/04/2013 | 16/04/2013 | MPIM Bonn | Visiting professor |
| 24/01/2016 | 29/01/2016 | MPIM Bonn | Visiting professor |
| 10/11/2019 | 15/11/2019 | MPIM Bonn | Visiting professor |

Part III – Teaching experience

| Year | Institution | Lecture/Course |
|------|-------------------------------|--|
| 2020 | Sapienza - Università di Roma | Istituzioni di Matematica, I (C. di L. in Architettura C.U.) |
| 2020 | Sapienza - Università di Roma | Topologia Algebrica (C. di L. in Matematica) |

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|------|-------------------------------|---|
| 2019 | Sapienza - Università di Roma | Geometria Algebrica (C. di L. in Matematica) |
| 2019 | Sapienza - Università di Roma | Istituzioni di Algebra Superiore (C. di L. in Matematica) |
| 2018 | Sapienza - Università di Roma | Lo spazio e le misure: teoria, didattica e applicazioni (C. di L. in Scienze della formazione primaria) |
| 2018 | Sapienza - Università di Roma | Algebra lineare (C. di L. in Matematica) |
| 2018 | Sapienza - Università di Roma | Geometria superiore (C. di L. in Matematica) |
| 2017 | Sapienza - Università di Roma | Lo spazio e le misure: teoria, didattica e applicazioni (C. di L. in Scienze della formazione primaria) |
| 2017 | Sapienza - Università di Roma | Algebra I (C. di L. in Matematica) |
| 2016 | Sapienza - Università di Roma | Topologia algebrica (C. di L. in Matematica) |
| 2016 | Sapienza - Università di Roma | Geometria I (C. di L. in Matematica) |
| 2015 | Sapienza - Università di Roma | Variabile complessa (C. di L. in Matematica) |
| 2015 | Sapienza - Università di Roma | Istituzioni di geometria superiore (C. di L. in Matematica) |
| 2014 | Sapienza - Università di Roma | Geometria (C. di L. in Fisica) |
| 2013 | Sapienza - Università di Roma | Variabile complessa (C. di L. in Matematica) |
| 2012 | Sapienza - Università di Roma | Istituzioni di geometria superiore (C. di L. in Matematica) |
| 2011 | Sapienza - Università di Roma | Geometria 1 (C. di L. in Matematica) |
| 2010 | Sapienza - Università di Roma | Di cosa parliamo quando parliamo di stringhe (Dottorato in Matematica) |
| 2010 | Sapienza - Università di Roma | Algebra lineare (C. di L. in Matematica) |
| 2009 | Sapienza - Università di Roma | Geometria (C. di L. in Fisica) |
| 2008 | Sapienza - Università di Roma | Matematica (C. d. L. in Scienze applicate ai beni culturali) |
| 2007 | Sapienza - Università di Roma | Topologia (C. d. L. in Matematica) |
| 2006 | Sapienza - Università di Roma | Geometria 2 (C. d. L. in Fisica) |
| 2005 | Sapienza - Università di Roma | Calcolo e Biostatistica (C. d. L. in Biologia) |
| 2003 | Sapienza - Università di Roma | Omotopia razionale delle varietà (Dottorato in Matematica, corso cotenuto con Enrico Arbarello) |

I have moreover acted as advisor for 16 tesi di laurea specialistica/magistrale (Master's Thesis) and 40 tesi di laurea (Bachelor's Thesis).

Part IV - Society memberships, Awards and Honors

| Year | Title |
|------|--|
| 2014 | Riconoscimento di eccellente insegnamento universitario per l'a.a. 2012-13 |
| 2017 | Riconoscimento di eccellente insegnamento universitario per l'a.a. 2015-16 |
| 2018 | Riconoscimento di eccellente insegnamento universitario per l'a.a. 2016-17 |

Part V - Funding Information [grants as PI-principal investigator or I-investigator]

| Year | Title | Program | Grant value |
|------|---|--|-------------|
| 2019 | Spazi di moduli: aspetti infinitesimali, locali e globali (protocollo RM11916B6AF58233) | Progetti di Ricerca di Ateneo - Progetti Medi - PI | 14.900 |
| 2017 | (Finanziamento delle Attività Base di Ricerca - it is a reward funding, rewarding quality of research on the basis of national evaluation results and not related to a research project) | FFABR - PI | 3.000 |
| 2016 | Spazi di moduli - Aspetti infinitesimali, locali e globali (protocollo RM116154CCF40A5E) | Progetti di Ricerca di Ateneo - Progetti Medi - PI | 8.000 |
| 2014 | Spazi di moduli, teoria delle deformazioni e superfici K3 (progetto C26A14X48F) | Ricerca Universitaria - PI | 8.000 |
| 2018 | Algebraic and differential aspects of real and complex manifolds | Progetti di Ricerca di Ateneo - Progetti Grandi - I | 31.000 |
| 2017 | Moduli and Lie Theory (protocollo 2017YRA3LK_001) | PRIN - I | 217.234 |
| 2017 | Varieta' speciali, spazi di moduli e teoria delle deformazioni. | Progetti di Ricerca di Ateneo - Progetti Medi - I | 10.889 |
| 2015 | Moduli spaces and Lie theory (protocollo 2015ZWST2C_001) | PRIN - I | 158.134 |
| 2015 | Moduli, deformazioni e superfici K3 (progettoC26A15MZY3) | Ricerca Universitaria - I | 12.000, |
| 2013 | Teoria dei moduli e delle deformazioni delle varietà algebriche e dei fasci (progetto C26A13APZ5) | Ricerca Universitaria - I | 7.000 |
| 2012 | Prospettive in Teoria di Lie (progetto RBF12RA9W) | FIRB - I | 459.585 |
| 2012 | Spazi di Moduli e Teoria di Lie (protocollo 2012KNL88Y_001) | PRIN - I | 150.894 |
| 2012 | Spazi di Moduli e teoria delle deformazioni (progetto C26A125C4R) | Ricerca Universitaria - I | 7.000 |
| 2011 | Moduli, Lie theory and applications (progetto C26A11EC5N) | Ricerca Universitaria - I | 40.000 |
| 2010 | Aspetti omotopici e derivati in teoria delle deformazioni (progetto C26A10ZS32) | Ricerca Universitaria - I | 5.000 |
| 2009 | Teoria di Lie e generalizzazioni, Forme modulari, Topologia di spazi di moduli, Teoria dell'indice, Geometria algebrica complessa (protocollo 20097NBFW5 001) | PRIN - I | 214.175 |

| | | | |
|------|--|--------------------------------|---------|
| 2009 | Localizzazione ottimale delle funzioni di Wannier nei solidi cristallini: un approccio geometrico-variazionale (progetto C26F09MCXC) | Ricerca di Ateneo Federato - I | 8.000 |
| 2009 | Caratteri graduati, spazi di moduli ed invarianza modulare (progetto C26A09EFE7) | Ricerca Universitaria - I | ?? |
| 2008 | Spazi di moduli (progetto C26F08RTXL) | Ricerca di Ateneo Federato - I | ?? |
| 2008 | Spazi di moduli (progetto C26A08CN4C) | Ricerca Universitaria - I | ?? |
| 2007 | Spazi di moduli e Teoria di Lie (protocollo 20074S8FZR 001) | PRIN - I | 95.880 |
| 2007 | Geometria delle varietà (progetto C26F07M9FN) | Ricerca di Ateneo Federato - I | ?? |
| 2007 | Geometria delle varietà (progetto C26A07ZRTW) | Ricerca Universitaria - I | ?? |
| 2006 | Classificazione di varietà algebriche, differenziali e topologiche (progetto C26A06EMPJ) | Ricerca di Ateneo - I | ?? |
| 2006 | Classificazione di varietà algebriche, differenziali e topologiche (progetto C26F06J7PJ) | Ricerca di Facoltà - I | ?? |
| 2005 | Spazi di moduli e Teoria di Lie (protocollo 2005017758 001) | PRIN - I | 182.000 |
| 2005 | Classificazione di varietà algebriche, differenziali e topologiche (progetto C26A059045) | Ricerca di Ateneo - I | ?? |
| 2005 | Classificazione di varietà algebriche, differenziali e topologiche (progetto C26F050745) | Ricerca di Facoltà - I | ?? |

Part VI – Research Activities

Keywords

Brief Description

Homotopical algebra The investigation of algebraic structures up to homotopy, i.e., of the realm of algebra where identities only hold up to homotopies which in turn satisfy suitable coherence conditions

| | |
|------------------------------------|--|
| Infinitesimal deformation theory | The investigation of deformation problems allowing the deformation parameter to be infinitesimally small. Algebraically, this corresponds to the study of differential graded Lie algebras |
| Topological quantum field theories | The study of linear representation of the category of cobordism and of his higher versions (extended cobordism) |
| Smooth stacks | The study of sheaves and higher sheaves over the site of smooth manifolds. It turns out that many constructions in contemporary theoretical physics are best expressed using the language of smooth stacks |

Part VII – Summary of Scientific Achievements

| Product type | Number | Data Base | Start | End |
|------------------------|--------|---------------------------|-------|------|
| Papers [international] | 34 | Scopus and Web of Science | 2002 | 2021 |
| Papers [national] | 0 | | | |
| Books [scientific] | 0 | | | |
| Books [teaching] | 0 | | | |

Total Impact Factor **48,179** (computed as the sum over the published papers of the impact factors of the corresponding journals in the year of publication; for papers published in 2020, the 2019 IF has been used; for papers published before 2010, if the journal was not yet indexed, the IF of the first year of indexing has been used)

Average Impact Factor **1,417** (computed as 48,179/34)

Total Citations **377**

Total Citations Excluding Self Citations of All Authors **199**

Average Citations per Product **11,088**

Average Citations per Product Excluding Self Citations of All Authors **5,852**

Hirsch (H) index **13**

Hirsch (H) index Excluding Self Citations of All Authors **9**

Normalized H index* **0,684** (computed as 13/19)

Normalized H index* Excluding Self Citations of All Authors **0,473** (computed as 9/19)

*H index divided by the academic seniority.

Part VIII– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

1. Twisted cohomotopy implies M- theory anomaly cancellation on 8-manifolds. (with Hisham Sati and Urs Schreiber) *Comm. Math. Phys.* 377 (2020), no. 3, 1961–2025 [journal IF (2019): 2.102; Scopus: 2; WoS:1]
2. Higher brackets on cyclic and negative cyclic (co)homology. (with Niels Kowalzig) *Int. Math. Res. Not. IMRN* 2020, no. 23, 9148–9209 [journal IF (2019): 1.291; Scopus: 0; WoS: 0]
3. Formal Abel-Jacobi maps. (with Marco Manetti) *Int. Math. Res. Not. IMRN* 2020, no. 4, 1035–1090. [journal IF (2019): 1.291; Scopus: 0; WoS: 0]
4. Hodge theory and deformations of affine cones of subcanonical projective varieties. (with Carmelo Di Natale and Enrico Fatighenti) *J. Lond. Math. Soc. (2)* 96 (2017), no. 3, 524–544. [journal IF (2017): 0.892; Scopus: 4; WoS: 4]
5. \mathbb{Z}_2 invariants of topological insulators as geometric obstructions. (with Domenico Monaco and Gianluca Panati) *Comm. Math. Phys.* 343 (2016), no. 3, 1115–1157. [journal IF (2016): 2.500; Scopus: 20; WoS: 17]
6. Construction of real-valued localized composite Wannier functions for insulators. (with Domenico Monaco and Gianluca Panati) *Ann. Henri Poincaré* 17 (2016), no. 1, 63–97. [journal IF (2016): 1.599; Scopus: 20; WoS: 18]
7. Boundary conditions for topological quantum field theories, anomalies and projective modular functors. (with Alessandro Valentino) *Comm. Math. Phys.* 338 (2015), no. 3, 1043–1074. [journal IF (2015): 2.375; Scopus: 10; WoS: 13]
8. The E_8 moduli 3-stack of the C-field in M-theory. *Comm. Math. Phys.* 333 (2015), no. 1, 117–151. (with Hisham Sati and Urs Schreiber) [journal IF (2015): 2.375; Scopus: 13; WoS: 13]
9. Extended higher cup-product Chern-Simons theories. (with Hisham Sati and Urs Schreiber) *J. Geom. Phys.* 74 (2013), 130–163. [journal IF (2013): 0.797; Scopus: 19; WoS: 20]
10. Differential graded Lie algebras controlling infinitesimal deformations of coherent sheaves (with Donatella Iacono and Elena Martinengo), *Journal of the European Mathematical Society*, Volume 14, Issue 2, 2012, pp. 521-540 [journal IF (2012): 1.880; Scopus: 7; WoS: 7]
11. Čech cocycles for differential characteristic classes: an ∞ -Lie theoretic construction. (with Jim Stasheff and Urs Schreiber) *Adv. Theor. Math. Phys.* 16 (2012), no. 1, 149–250. [journal IF (2012): 1.066; Scopus: 43; WoS: 44]

12. Formality of Koszul brackets and deformations of holomorphic Poisson manifolds. (with Marco Manetti) *Homology Homotopy Appl.* 14 (2012), no. 2, 63–75. [journal IF (2012): 0.433; Scopus: 18; WoS: 15]
13. A period map for generalized deformations. (with Marco Manetti) *J. Noncommut. Geom.* 3 (2009), no. 4, 579–597 [journal IF (2009): 1.296; Scopus: 8; WoS: 7]
14. L_∞ structures on mapping cones. (with Marco Manetti) *Algebra Number Theory* 1 (2007), no. 3, 301–330. [journal IF (2010): 0.757; Scopus: 42; WoS: 37]
15. *On the Hochschild-Kostant-Rosenberg map for graded manifolds* (with Alberto S. Cattaneo and Riccardo Longoni), *Int. Math. Res. Not. IMRN* 2005:62 (2005) 3899-3918 [journal IF (2005): 0.723; Scopus: 4; WoS: 3]

Part IX – Other Publications and Preprints

1. Formally integrable complex structures on higher dimensional knot spaces (with Hong Van Le); accepted for publication in *Journal of Symplectic Geometry*
2. Twisted Cohomotopy implies level quantization of the full 6d Wess-Zumino term of the M5-brane (with Hisham Sati and Urs Schreiber); accepted for publication in *Comm. Math. Phys.*
3. Almost formality of manifolds of low dimension (with Kotaro Kawai, Hong Van Le, Lorenz Schwachhöfer), accepted for publication in *Annali della Scuola Normale Superiore - Classe di Scienze*
4. Cyclic Gerstenhaber-Schack cohomology (with Niels Kowalzig); accepted for publication in *Journal of Noncommutative Geometry*
5. Strongly homotopy Lie algebras and deformations of calibrated submanifolds (with Hong Van Le, Lorenz Schwachhofer and Luca Vitagliano); accepted for publication in *Asian J. Math.*
6. Super-exceptional geometry: origin of heterotic M-theory and super-exceptional embedding construction of M5 (with Hisham Sati and Urs Schreiber), *JHEP* (2020) Article number:107 (2020)
7. Higher T-duality of super M-branes (with Hisham Sati and Urs Schreiber) *Advances in Theoretical and Mathematical Physics* Volume 24 (2020) Number 3, Pages: 621 – 708
8. The Rational Higher Structure of M-theory (with Hisham Sati and Urs Schreiber) *Proceedings of LMS/EPSRC Durham Symposium Higher Structures in M-Theory*, August 2018; *Fortschritte der Physik*, May 2019
9. Hearts and towers in stable infinity-categories (with Fosco Loregian and Giovanni Marchetti), *Journal of Homotopy and Related Structures* (2019), Volume 14, Issue 4, pp

993--1042

10. T-duality from super Lie n -algebra cocycles for super p -branes (with Hisham Sati and Urs Schreiber), *Advances in Theoretical and Mathematical Physics*, Vol. 22, No. 5 (2018)
11. Rational sphere valued supercocycles in M-theory and type IIA string theory (with Hisham Sati and Urs Schreiber), *Journal of Geometry and Physics*, Volume 114, p. 91-108 (2017)
12. The WZW term of the M5-brane and differential cohomotopy (with Hisham sati and Urs Schreiber), *J. Math. Phys.* 56, 102301 (2015)
13. Central extensions of mapping class groups from characteristic classes (with Urs Schreiber and Alessandro Valentino), *Cahiers de Topologie et Géométrie Différentielle Catégoriques*, volume LIX-3, 2018
14. t -structures are normal torsion theories (with Fosco Loregian), *Applied Categorical Structures* 24, pages181–208(2016)
15. Super Lie n -algebra extensions, higher WZW models, and super p -branes with tensor multiplet fields (with Hisham Sati and Urs Schreiber), *International Journal of Geometric Methods in Modern Physics* Vol. 12, No. 02, 1550018 (2015)
16. L-infinity algebras of local observables from higher prequantum bundles (with Christopher L. Rogers and Urs Schreiber), *Homology, Homotopy and Applications*, vol. 16(2), 2014, pp.107-142
17. Higher $U(1)$ -gerbe connections in geometric prequantization (with Christopher L. Rogers and Urs Schreiber), *Rev. Math. Phys.*, Vol. 28, Issue 06, 1650012 (2016)
18. A higher stacky perspective on Chern-Simons theory (with Hisham Sati and Urs Schreiber), in *Mathematical Aspects of Quantum Field Theories* (Damien Calaque and Thomas Strobl Eds.), Springer (2015)
19. Multiple M5-branes, String 2-connections, and 7d nonabelian Chern-Simons theory (with Hisham Sati and Urs Schreiber), *Advances in Theoretical and Mathematical Physics* Vol. 18, No. 2, 229-321 (2014)
20. A higher Chern-Weil derivation of AKSZ sigma-models (with Chris Rogers and Urs Schreiber), *International Journal of Geometric Methods in Modern Physics*, Vol. 10, No. 1 (2013) 1250078 (36 pages)
21. Cosimplicial DGLAs in deformation theory (with Marco Manetti and Elena Martinengo), *Communications in Algebra* Volume 40, Issue 6 (2012) 2243-2260
22. Graded Poisson algebras (with Alberto S. Cattaneo and Riccardo Longoni), *Encyclopedia of Mathematical Physics*, J.-P. Naber and G. Sheung Tsun Tsou Eds., Academic Press-Elsevier (2006), 560-567
23. Graph complexes in deformation quantization (with Lucian M. Ionescu), *Lett. Math. Phys.*, Vol 73, No. 3 (2005), 193-208

24. Sums over graphs and integration over discrete groupoids, *Applied Categorical Structures*, Vol. 14, No. 4 (2006), 313-350.
25. Matrix integrals and Feynman diagrams in the Kontsevich model (with Riccardo Murri), *Advances in Theoretical and Mathematical Physics*, Vol. 7, No. 3 (2003) 525-576
26. Feynman diagrams via graphical calculus (with Riccardo Murri), *Journal of Knot Theory and Its Ramifications*, Vol. 11, No. 7 (2002) 1095-1131)

Part X – Selected Addresses

| Year | Title |
|------|--|
| 2021 | Mini-course on Knot Theory, Scuola Galileiana di Studi Superiori, Padova, January-February 2021 (on line) |
| 2020 | Formally integrable complex structures on higher dimensional knot spaces, at <i>Prague-Hradec Kralove seminar Cohomology in algebra, geometry, physics and statistics</i> , (on line) |
| 2020 | Almost formality of manifolds of low dimension, at <i>Seminario di Geometria ed Analisi Complessa</i> , Firenze |
| 2020 | Twisted cohomotopy and the level quantization of the 6d Wess-Zumino term, at <i>M-theory and Mathematics: An Interdisciplinary Workshop</i> ; NYU Abu Dhabi |
| 2019 | The Pangloss-Hirzebruch-Riemann-Roch theorem at <i>MPIM Topology Seminar</i> , MPIM, Bonn |
| 2019 | Higher brackets on cyclic and negative cyclic (co)homology, at <i>Quantum Days in Bologna</i> , Bologna |
| 2018 | T-duality in rational homotopy theory, in <i>Talks in Mathematical Physics</i> , ETH, Zurich |
| 2018 | (super-)Rational T-duality from (super-)L-infinity-algebras, at <i>Higher Structures in M-Theory</i> LMS/EPSRC Durham Symposium; Durham |
| 2018 | Mini-course on T-duality in rational homotopy theory at <i>Srni Winter School in Geometry and Physics</i> ; Srni |
| 2017 | T-duality in rational homotopy theory, at <i>LMS Midlands Regional Meeting</i> ; Loughborough |
| 2017 | T-duality in rational homotopy theory, at Universität Wien |
| 2017 | Formal Abel-Jacobi maps, at <i>2CinC: Cow and Calf in Cardiff</i> ; Cardiff |
| 2017 | T-Duality in Rational Homotopy Theory, at <i>Higher Structures Lisbon</i> ; Lisbon |
| 2016 | $\mathbb{Z}/2$ invariants of topological insulators as geometric obstructions, at Institut Camille Jordan, Lyon |
| 2015 | Group actions on boundary structures in Dijkgraaf-Witten theory, at <i>Higher TQFT and categorical quantum mechanics</i> ; ESI, Vienna |
| 2015 | Mini-course on “Differential graded Lie algebras and formal moduli problems” in <i>Derived Algebraic Geometry, with a focus on derived symplectic techniques</i> , Warwick, April 2015 |
| 2014 | Abel, Jacobi, and the double homotopy fiber, Department Colloquium, Göttingen |
| 2014 | Abel, Jacobi and the double homotopy fiber, at SISSA, Trieste |
| 2014 | Abel, Jacobi and the double homotopy fiber, at <i>Higher Structures in Algebraic Analysis</i> , |

- Padova
- 2013 Relative quantum field theories as boundary TQFTs, at *GAP XI, Higher Geometry and Quantum Field Theory*, Pittsburgh, 2013
- 2013 L-infinity algebras of observables from higher prequantum line bundles, at the Higher Differential Geometry Seminar, MPIM, Bonn
- 2012 A stacky point of view on classical Chern-Simons theory, at ETH, Zurich
- 2011 The period map of a complex projective manifold: an infinity-category perspective, in *Quarterly Seminar on Topology and Geometry*, Universiteit Utrecht
- 2008 Sheaves of Lie algebras and DGLAs in deformation theory, in *CATS3*, Centro di Ricerca Matematica Ennio De Giorgi, Pisa
- 2008 Generalized periods of Kahler manifolds, in *Algebraic Structures in Geometry and Physics*, Leicester
- 2002 Moduli spaces, Feynman diagrams, and the KdV hierarchy, at *First Joint Meeting AMS-UMI, special session on Quantum Cohomology and Moduli Spaces*, Pisa

Conference organization:

- *Geometry in Pairs*, Roma Tre, Roma 2019
- *Poisson Geometry and Higher Structures*, Istituto Nazionale di Alta Matematica, Roma, 2018
- *Noncommutative Geometry and Higher Structures*, University of Würzburg, 2017

Part XI – Refereeing Activities

- *Referee for*: European Research Council, NSA Mathematical Sciences Grants Program, PISCOPIA Fellowship Programme Marie Curie Action, National Science Centre Poland, *Advances in Mathematics*, *Compositio Mathematica*, *Journal of the European Mathematical Society*, *Communications in Mathematical Physics*, *Communications in Contemporary Mathematics*, *Algebraic & Geometric Topology*, *Journal of Geometry and Physics*, *Annali della Scuola Normale Superiore - Classe di Scienze*, *Annales Henri Poincaré*, *Journal of Mathematical Physics*, *Journal of Pure and Applied Algebra*, *Mathematical Physics*, *Analysis and Geometry*, *Homology, Homotopy and Applications*, *Mathematische Zeitschrift*, *Letters in Mathematical Physics*, *Topology and its Applications*, *International Journal of Geometric Methods in Modern Physics*, *Differential Geometry and its Applications*, *Reports on Mathematical Physics*, *SIGMA (Symmetry, Integrability and Geometry: Methods and Applications)*.
- *Reviewer for*: *Mathematical Reviews*, *Zentralblatt MATH*.

Part XII – Popularization of Science Activities

- “*Secret life of pairs of points*”, for the European Community project *Atomium Culture (Mathematics)*, 2012.
- “*Un punto diviso a metà*”, for “*Con la mente e con le mani*”, *Accademia Nazionale dei Lincei – MIUR*, 2013

- “*Il dilemma del rigorista*”, *Archimede*, 3 (2010), 124-128.
- Since 2008, lectures aimed at high school students for Progetto Lauree Scientifiche

Part XIII – Activities as Doctoral Advisor

Member of the PhD Advisory Board (Collegio del Dottorato) in Mathematics of Sapienza University of Rome since XXXV ciclo (2019). I have been since then member of one Admission Committee for the PhD scholarships.

Students advised:

- Mattia Coloma, Università di Roma Tor Vergata (expected defense, 2021)
- Eugenio Landi, Università di Roma Tre (expected defense, 2021)
- Matteo Braghiroli, Sapienza Università di Roma (2017)
- Fosco Loregian, SISSA (2016)
- Alessandra Capotosti, Università di Roma Tre (2016)
- Fabio Trova, Università di Roma Tor Vergata (2015)
- Riccardo Murri, Scuola Normale Superiore (co-advised with Enrico Arbarello, 2013)

Part XIV – Other Activities

Member of the following Advisory Boards:

- Commissione Strutture Didattiche e Scientifiche della Facoltà di Scienze MM.FF.NN.
- Commissione Biblioteca del Dipartimento di Matematica
- Commissione Tutorato del Dipartimento di Matematica

On three occasions, member of an Admission Committee for a PostDoc position in Mathematics at Dipartimento di Matematica.

Roma, 3 Marzo 2021

