

# Marco Moraschini

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Università di Bologna  
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## Personal Data

Name **Marco**.  
Surname **Moraschini**.  
Place of Birth **Milan (MI)**.  
Date of Birth **January 21, 1991**.  
Webpage <https://www.dm.unibo.it/~marco.moraschini2>.  
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Working Address **Dipartimento di Matematica, Università di Bologna, 40126 Bologna, Ufficio C4.**

## Positions and Titles

2023 present **National Scientific Habilitation for associate professor**.  
08/03/2023 **Senior Assistant Professor (fixed-term, tenure-track position)**, University of Bologna.  
present  
10/01/2022 **Junior Assistant Professor (fixed-term)**, University of Bologna.  
07/03/2023  
01/01/2019 **Postdoctoral researcher**, *University of Regensburg*, Funded by SFB Higher Invariants  
31/12/2021 1085, Mentor Prof. Dr. Clara Löh.  
2016-2019 **Cultore della Materia of Differential Geometry and Topology**, *Qualified as an expert in that subject – Teaching assistant*, Università di Pisa, Pisa.

## Education

01/11/2015 **Ph.D. in Mathematics**, *Università di Pisa (Pisa)*, Ottimo cum Laude, *Thesis title: On Gromov's theory of multicomplexes: the original approach to bounded cohomology and simplicial volume*, Advisor: Prof. Roberto Frigerio.  
06/12/2018 DOI: <https://doi.org/10.13131/unipi/etd/11242018-182437>  
08/10/2013 **Master Degree**, *Università degli Studi di Milano-Bicocca (Milano)*, 110/110 cum Laude, *Thesis title: Topological complexity and applications*, Advisors: Prof. Davide Luigi Ferrario and Prof. Aniceto Murillo.  
23/07/2015  
24/08/2010 **Bachelor Degree**, *Università degli Studi di Milano-Bicocca (Milano)*, 110/110 cum Laude, *Thesis title: Weak Convergence and Wiener Measure*, Advisor: Prof. Francesco Caravenna.  
15/10/2013

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## Research

### Research interests

- **Simplicial volume and bounded cohomology.**
- **Low dimensional topology and hyperbolic geometry.**
- **Geometric group theory.**
- **Homotopy theory.**

### Preprints (submitted)

- (18) **C. Campagnolo, F. Fournier-Facio, Y. Lodha, M. Moraschini**, An algebraic criterion for the vanishing of bounded cohomology, (<https://arxiv.org/abs/2311.16259>), (62 pages).
- (17) **K. Li, C. Löh, M. Moraschini**, Bounded acyclicity and relative simplicial volume, (<https://arxiv.org/abs/2202.05606>), (49 pages).

### Publications

#### Journal papers

- (16) **L. Battista, S. Francaviglia, M. Moraschini, F. Sarti, A. Savini**, Bounded Cohomology Classes of Exact forms, **Proceedings of the American Mathematical Society**, 152 (2024) 71–80.  
(<https://www.ams.org/journals/proc/2024-152-01/S0002-9939-2023-16505-3/>)
- (15) **M. Moraschini, G. Raptis**, Amenability and Acyclicity in Bounded Cohomology Theory, To appear in **Revista Matemática Iberoamericana**, 1–34, (<https://ems.press/journals/rmi/articles/9127417>).
- (14) **F. Fournier-Facio, C. Löh, M. Moraschini**, Bounded cohomology of finitely presented groups: vanishing, non-vanishing and computability, To appear in **Annali della Scuola Normale di Pisa. Classe di Scienze**, 1–30, (<https://arxiv.org/abs/2106.13567>).  
([https://doi.org/10.2422/2036-2145.202201\\_003](https://doi.org/10.2422/2036-2145.202201_003))
- (13) **C. Löh, M. Moraschini, George Raptis**, On the simplicial volume and the Euler characteristic of (aspherical) manifolds, **Research in the Mathematical Sciences**, 9 (44) (2022), 1–36.  
(<https://doi.org/10.1007/s40687-022-00341-3>)
- (12) **C. Löh, M. Moraschini, R. Sauer**, Amenable covers and integral foliated simplicial volume, **New York Journal of Mathematics**, 28 (2022), 1112–1136 .  
(<https://nyjm.albany.edu/j/2022/28-47v.pdf>)
- (11) **F. Fournier-Facio, C. Löh, M. Moraschini**, Bounded cohomology and binate groups, **Journal of the Australian Mathematical Society**, 115 (2023), 204–239.  
(<https://doi.org/10.1017/S1446788722000106>)
- (10) **C. Löh, M. Moraschini**, Topological volume of fibrations: A note on open covers, **Proceedings of the Royal Society of Edinburgh Section A: Mathematics**, 152 (5) (2022), 1340–1360.  
(<https://doi.org/10.1017/prm.2021.64>)
- (9) **M. Moraschini, A. Savini**, Multiplicative constants and maximal measurable cocycles in bounded cohomology, **Ergodic Theory and Dynamical Systems**, 42 (2022), 3490–3525.  
(<https://doi.org/10.1017/etds.2021.91>)

- (8) **D. Fauser, C. Löh, M. Moraschini, J. P. Quintanilha**, Stable integral simplicial volume of 3-manifolds, **Journal of Topology**, 14 (1) (2021), 608–640.  
(<https://londmathsoc.onlinelibrary.wiley.com/doi/full/10.1112/topo.12193>)
- (7) **P. Capovilla, C. Löh, M. Moraschini**, Amenable category and complexity, **Algebraic and Geometric Topology**, 22 (3) (2022), 1417–1459.  
([www.doi.org/10.2140/agt.2022.22.1417](http://www.doi.org/10.2140/agt.2022.22.1417))
- (6) **M. Moraschini, A. Savini**, A Matsumoto–Mostow result for Zimmer’s cocycle of hyperbolic lattices, **Transformation groups**, 27 (2022), 1337–1392.  
(<https://link.springer.com/article/10.1007/s00031-020-09630-z>)
- (5) **C. Löh, M. Moraschini**, Simplicial volume via normalised cycles, **Proceedings of the American Mathematical Society**, 148 (2020), 5437–5440.  
(<https://www.ams.org/journals/proc/2020-148-12/S0002-9939-2020-15201-X/>)
- (4) **R. Frigerio, M. Moraschini**, Gromov’s theory of multicomplexes with applications to bounded cohomology and simplicial volume, **Memoirs of the American Mathematical Society**, 283 (1402) (2023), 1–166.  
(<https://www.ams.org/books/memo/1402/>)
- (3) **R. Frigerio, M. Moraschini**, Ideal simplicial volumes of manifolds with boundary, **International Mathematics Research Notices (IMRN)**, 2021 (7) (April 2021) 5214–5260.  
(<https://doi.org/10.1093/imrn/rny302>)
- (2) **R. Frigerio, M. Moraschini**, On volumes of truncated tetrahedra with constrained edge lengths, **Periodica Mathematica Hungarica**, 79 (1) (2019), 32–49.  
(<https://link.springer.com/article/10.1007/s10998-018-00277-8>)
- (1) **M. Moraschini, A. Murillo**, Abstract sectional category in model structures on topological spaces, **Topology and its Applications**, 199 (2016), 23–31.  
(<https://www.sciencedirect.com/science/article/pii/S0166864115005179>)

### Reports

- (1) **M. Moraschini**, Stable integral simplicial volume of 3-manifolds, **Oberwolfach Reports**, 17 (1) (2020), 417–463.  
([www.doi.org/10.14760/OWR-2020-7](http://www.doi.org/10.14760/OWR-2020-7))

### Book chapters

- (1) **M. Moraschini**, Gromov’s Mapping Theorem via multicomplexes, Chapter in the book *Bounded Cohomology and Simplicial Volume* (**London Mathematical Society Lecture Notes Series**), 3–20, (<https://www.cambridge.org/it/academic/subjects/mathematics/geometry-and-topology/bounded-cohomology-and-simplicial-volume?format=PB>).

### Editorial work

- (1) **C. Campagnolo, F. Fournier–Facio, M. Moraschini, N. Heuer**, Bounded Cohomology and Simplicial Volume, Accepted for publication in **London Mathematical Society Lecture Note Series**.

Preprint [https://www.dm.unibo.it/~marco.moraschini2/Proceedings\\_IYSBC\\_SV.pdf](https://www.dm.unibo.it/~marco.moraschini2/Proceedings_IYSBC_SV.pdf)  
version

Official link <https://www.cambridge.org/it/academic/subjects/mathematics/geometry-and-topology/bounded-cohomology-and-simplicial-volume?format=PB>

## Forthcoming talks

### Talks

- 04/09/2023 **Simplicial volume and amenable covers**, *Invited speaker*, Congresso UMI 2023, Pisa Sezione: Topologia e Geometria Differenziale, Scuola Normale Superiore–Università di Pisa.
- 15/06/2023 **Acyclicity in bounded cohomology**, *Geometry Seminars*, Dipartimento di Matematica (University of Pisa), Pisa.
- 24/05/2023 **Simplicial volume and aspherical manifolds**, *Geometry Seminar*, ETHZ, Zürich. Zürich
- 01/03/2023 **New computations in bounded cohomology**, *Group Theory Seminar*, Universidad Autonoma de Madrid, Madrid.
- 28/02/2023 **Simplicial volume and amenable covers**, *Seminario Antonio Giraldo y Sonia Sastre*, Universidad Politécnica de Madrid, Madrid.
- 31/01/2023 **Chern conjecture and simplicial volume**, *IYSBC-SV Seminars*, Online seminar, Regensburg.
- 27/05/2022 **Introduzione alla coomologia limitata, parte 2**, *TGV Seminars*, University of Bologna, Bologna, Italy.
- 20/05/2022 **Introduzione alla coomologia limitata, parte 1**, *TGV Seminars*, University of Bologna, Bologna, Italy.
- 06/05/2022 **New computations in bounded cohomology**, *Online seminar on Probabilistic and Geometric Group Theory*, online seminar, Germany–Spain.
- 04/05/2022 **Simplicial volume and aspherical manifolds**, *Seminari di Geometria*, University of Pisa, Pisa, Italy.
- 08/04/2022 **Cenni di teoria geometrica dei gruppi**, *TGV Seminars*, University of Bologna, Bologna, Italy.
- 22/02/2022 **Simplicial volume and aspherical manifolds**, *Algebra and Geometry Seminars*, University of Bologna, Bologna, Italy.
- 10/02/2022 **Aspherical manifolds and simplicial volume**, *Topology and geometric group theory seminars at Ohio State University (online)*, Ohio State University, United States.
- 11/01/2022 **On the simplicial volume and Euler characteristic of (aspherical) manifolds**, *Topology seminars (online)*, Bonn Mathematical Institute, Germany.
- 07/12/2021 **Aspherical manifolds and simply(cial) thanks à vous(lume)**, *LKS*, Universität Regensburg, Regensburg, Germany.
- 30/09/2021 **Acyclicity and amenability in bounded cohomology**, *contributed talk*, DMV–ÖMG–Jahrestagung 2021, Sektion Geometrie und Topologie, Universität Passau (online), Germany.
- 02/07/2021 **Vanishing results of topological volumes via open covers**, *Invited speaker*, Real and complex manifolds. The mathematical heritage of Edoardo Vesentini, Scuola Normale Superiore, Italy.

- 04/05/2021 **LS-cat and applications**, *LKS Seminar*, Online Seminar, Regensburg, Germany.  
Regensburg
- 11/01/2021 **Simplicial volume and Euler characteristic**, *HIOB Seminar*, Online Seminar, Regensburg, Germany.
- 02/11/2020 **Gromov's Mapping Theorem via multicomplexes**, *IYSBC-SV*, Online Seminar, Regensburg, Germany.
- 6/10/2020 **Stable integral simplicial volume**, *Trends in Low-Dimensional Topology*, Virtual seminar organized by mathematicians from Rutgers University, Georgia Tech, North Carolina State University, Duke University, MIT, United States.  
Boston
- 07/05/2020 **Simplicial volume via normalised cycles**, *LKS Seminar*, Universität Regensburg, Regensburg (Online seminar), Germany.
- 29/02/2020 **Stable integral simplicial volume of 3-manifolds**, *Invited speaker*, Workshop 2020: varietà reali e complesse: geometria, topologia ed analisi armonica, Scuola Normale Superiore.  
Pisa  
(Cancelled because of COVID-19)
- 14/02/2020 **Stable integral simplicial volume of 3-manifolds**, *Invited speaker*, Manifolds and Oberwolfach groups, MFO (Mathematisches Forschungsinstitut Oberwolfach), Germany.
- 27/01/2020 **Volumen simplicial entero estable de 3-variedades**, *Invited speaker to the session: Topology*, V Congreso de Jóvenes Investigadores de la RSME, Universitat Jaume I, Spain.  
31/01/2020  
Castellón de la Plana
- 12/12/2019 **Stable integral simplicial volume of 3-manifolds**, *AG Topologie Seminars*, KIT Karlsruhe (Karlsruher Institut für Technologie), Germany.
- 6/12/2019 **Stable integral simplicial volume of 3-manifolds**, *Invited speaker*, Bavarian Ausburg Geometry and Topology Meeting VI, Universität Ausburg, Germany.
- 23/11/2019 **On Gromov's theory of multicomplexes: the original approach to bounded cohomology and simplicial volume**, *Invited speaker as the winner of the prize "Best PhD Thesis"*, PhD Talent 2019, Lightning talk, Italy.  
Pisa
- 01/08/2019 **Ideal simplicial volume of manifolds with boundary**, *Invited speaker*, Workshop Heidelberg on Bounded Cohomology, Universität Heidelberg, Germany.
- 09/07/2019 **Simplicial volume of non-compact manifolds**, *BAD (Borsisti, Assegnisti, Dottorandi) Seminars*, Mathematical Department of Bologna, Italy.  
Bologna
- 03/06/2019 **Simplicial volume and amenable covers**, *Junior Geometry and Topology Seminar*, Warwick Warwick University, U. K..
- 15/04/2019 **Simplicial volume and amenable coverings**, *Colloquium of the Department of Mathematics*, Mathematical Department of Milano-Bicocca, Italy.  
Milan
- 08/04/2019 **Gromov's theory of multicomplexes with applications to closed manifolds**, *Invited speaker*, Workshop: Riemannian and Simplicial Volume, KIT (Karlsruher Institut für Technologie), Germany.  
Karlsruhe
- 05/02/2019 **Simplicial volume and amenable coverings**, *SFB-Lectures*, Universität Regensburg, Regensburg Germany.
- 22/11/2018 **Why do we care about multicomplexes?**, *Baby Geometri Seminars*, Mathematical Department of Pisa, Italy.  
Pisa

- 18/10/2018 **Una introducción al volumen simplicial ideal**, *VII Encuentro des Jóvenes Topólogos*, CRM de Barcelona, Spain.
- 17/09/2018 **An introduction to ideal simplicial volume**, *Invited speaker to the session: Geometric Topology, Manifolds, and Group Actions*, Joint meeting of the Italian Mathematical Union, the Italian Society of Industrial and Applied Mathematics and the Polish Mathematical Society, University of Wrocław, Poland.
- 23/05/2018 **An introduction to ideal simplicial volume**, *Oberseminar Globale Analysis*, Universität Regensburg, Germany.
- 18/05/2018 **An introduction to ideal simplicial volume**, *AG Topologie Seminars*, KIT (Karlsruher Institut für Technologie), Germany.
- 17/05/2018 **An introduction to simplicial volume**, *Geometry graduate colloquium*, ETH Zürich, Switzerland.
- 11/04/2018 **An introduction to ideal simplicial volume**, *Seminari di Geometria*, Mathematical Department of Pisa, Italy.
- 02/03/2018 **Simplicial volume: when volume becomes a topological invariant**, *Insalate di Matematica*, Mathematical Department of Milano-Bicocca, Italy.
- 04/12/2017 **Lecture on mathematical good manners: the Gromov Norm**, *BAD (Borsisti, Assegnisti, Dottorandi) Seminars*, Mathematical Department of Bologna.
- 20/10/2016 **Categoría seccional abstracta en diferentes estructuras de modelo sobre los espacios topológicos**, *V Encuentro de Jóvenes Topólogos*, Italy.
- 02/12/2015 **Topological invariants in model categories**, *Baby Geometri Seminars*, Mathematical Department of Pisa, Italy.
- 25/06/2015 **On abstract topological complexity in model categories over topological spaces**, *InSeGTo (Interesantísimo Seminario de Geometría y Topología)*, Mathematical Department of Málaga, Spain.
- [Poster sessions and lightening talks](#)
- 06/09/2021 **Amenable category and simplicial volume**, *Counting problems*, Centro Polivalente, Ventotene, Italy, Lightening talk.
- 09/09/2019 **Multicomplexes, bounded cohomology and simplicial volume**, *Of coarse! Quasi-isometries and groups: rigidity and classification*, Centro Polivalente, Italy, Lightening talk.
- 02/07/2019 **Simplicial volume**, *Young Geometric Group Theory VIII*, Facultad de Economía y Empresa (Campus Sarriko de la UPV/EHU), Spain, Lightening talk.
- 19/10/2018 **Volumen simplicial ideal**, *XXV Encuentro de Topología*, Poster, Spain.
- 12/03/2018 **Ideal simplicial volume**, *Young Geometric Group Theory VII*, Congress Center, Les Diablerets, Switzerland, Poster.
- 1-3/02/2018 **Ideal simplicial volume**, *Workshop 2018, Varietà reali e complesse: geometria, topologia e analisi armonica*, Scuola Normale Superiore, Italy, Poster.

11/09/2017 **Ideal simplicial volume**, *Ventotene International Workshop 2017: Moduli Spaces*,  
Ventotene Poster, Italy.

21/10/2016 **El volumen simplicial: una introducción**, *XXIII Encuentro de Topología*, Poster,  
Málaga Spain.

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## Supervised projects

Academic year **Sara Andreis**, *Varietà differenziali & Teorema di Whitney*, Università di Bologna,  
2022/2023 Bachelor thesis.  
Bologna

Academic year **Irene Alterini**, *Il Teorema di Whitehead*, Università di Bologna, Bachelor thesis.  
2022/2023  
Bologna

Academic year **Alessandro Beneventi**, *Il lemma di Milnor–Svarc e le sue applicazioni geometriche  
e topologiche*, Università di Bologna, Bachelor thesis.  
2022/2023  
Bologna

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## Organizational experience

24/03/2023 **Attività INdAM: Non-positive curvatures in manifolds and groups**, *Univer-  
sità di Bologna*, Co-organizzatori: Ludovico Battista, Pierluigi Contucci, Ste-  
fano Francaviglia, Marco Moraschini, Stefano Riolo (Università di Bologna) e Fil-  
ippo Sarti (Università di Torino), [https://matematica.unibo.it/it/eventi/  
udr-indam-bo-2023-03-24](https://matematica.unibo.it/it/eventi/udr-indam-bo-2023-03-24).

22- **Manifolds and groups in Bologna (GNSAGA Workshop)**, *Università di Bologna*,  
23/03/2023 Co-organizzatori: Ludovico Battista, Stefano Francaviglia, Marco Moraschini, Ste-  
fano Riolo (Università di Bologna) e Filippo Sarti (Università di Torino), [https://  
matematica.unibo.it/it/eventi/manifolds-and-groups-in-bologna](https://matematica.unibo.it/it/eventi/manifolds-and-groups-in-bologna).

26/09/2022 - **Workshop: Recent Advances in Bounded Cohomology**, *Universität Regensburg*,  
30/09/2022 Co-organizers: Clara Löh and George Raptis (Universität Regensburg), [https://  
www-app.uni-regensburg.de/Fakultaeten/MAT/sfb-higher-invariants/  
index.php/Recent\\_advances\\_in\\_bounded\\_cohomology](https://www-app.uni-regensburg.de/Fakultaeten/MAT/sfb-higher-invariants/index.php/Recent_advances_in_bounded_cohomology).

Summer **International young seminar on bounded cohomology and simplicial volume**,  
semester 2022 *Online seminars on Zoom*, Co-organizers: Caterina Campagnolo (UAM Madrid),  
Francesco Fournier-Facio (ETH Zürich) and Clara Löh (University of Regensburg),  
[https://www.dm.unibo.it/~marco.moraschini2/IYSBC\\_SV.html](https://www.dm.unibo.it/~marco.moraschini2/IYSBC_SV.html).

Summer **Seminari di Topologia e Geometria delle Varietà (TGV)**, *Seminari presso il*  
semester 2022 *Dipartimento di Matematica di Bologna*, Co-organizzatori: Stefano Francaviglia e  
Stefano Riolo (UNIBO), [https://www.dm.unibo.it/~marco.moraschini2/TGV.  
html](https://www.dm.unibo.it/~marco.moraschini2/TGV.html).

Winter **International young seminar on bounded cohomology and simplicial vol-  
semester 2021 ume**, *Online seminars on Zoom*, Co-organizers: Caterina Campagnolo (ENS-Lyon)  
and Francesco Fournier-Facio (ETH Zürich), [https://www.dm.unibo.it/~marco.  
moraschini2/IYSBC\\_SV.html](https://www.dm.unibo.it/~marco.moraschini2/IYSBC_SV.html).

Summer semester 2021 **International young seminar on bounded cohomology and simplicial volume**, *Online seminars on Zoom*, Co-organizers: Caterina Campagnolo (ENS-Lyon) and Francesco Fournier-Facio (ETH Zürich), [https://www.dm.unibo.it/~marco.moraschini2/IYSBC\\_SV.html](https://www.dm.unibo.it/~marco.moraschini2/IYSBC_SV.html).

Winter semester 2020 **International young seminar on bounded cohomology and simplicial volume**, *Online seminars on Zoom*, Co-organizers: Caterina Campagnolo (ENS-Lyon), Francesco Fournier-Facio (ETH Zürich) and Nicolaus Heuer (University of Cambridge), [https://www.dm.unibo.it/~marco.moraschini2/IYSBC\\_SV.html](https://www.dm.unibo.it/~marco.moraschini2/IYSBC_SV.html).

21/09/2020 - **Virtual workshop on Simplicial volumes and bounded cohomology**,  
25/09/2020 *Universität Regensburg*, Co-organizers: Caterina Campagnolo (ENS-Lyon), Clara Löh (University of Regensburg) and Roberto Frigerio (University of Pisa), [https://www-app.uni-regensburg.de/Fakultaeten/MAT/sfb-higher-invariants/index.php/Workshop\\_simvol2020](https://www-app.uni-regensburg.de/Fakultaeten/MAT/sfb-higher-invariants/index.php/Workshop_simvol2020).

Summer semester 2020 **International young seminar on bounded cohomology and simplicial volume**, *Online seminars on Zoom*, Co-organizer: Caterina Campagnolo (ENS-Lyon), [https://www.dm.unibo.it/~marco.moraschini2/IYSBC\\_SV.html](https://www.dm.unibo.it/~marco.moraschini2/IYSBC_SV.html).

01/10/2016 **Co-organizers of Seminari dei Baby Geometri**, *Università di Pisa*, <http://people.dm.unipi.it/babygeometri/>.  
31/10/2018

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## Research visiting period

26/02/2023 - **Research period at the Universidad Autonoma de Madrid (PhD C. Campagnolo)**.  
02/03/2023  
Madrid

24/02/2020 - **Research period at Univeristà di Pisa (Prof. R. Frigerio)**.  
29/12/2020  
Pisa

10/12/2019 - **Research period at Karlsruher Instut für Technologie (Prof. R. Sauer)**.  
13/12/2019  
Karlsruhe

09/07/2019 - **Research period at Università degli studi di Bologna (PhD A. Savini)**.  
12/07/2019  
Bologna

14/10/2015 - **Research period at Università di Málaga (Prof. A. Murillo)**.  
23/10/2015  
Málaga

25/02/2015 - **Studying period for writing the master thesis funded by the Extra project (Università degli studi di Milano-Bicocca, Università di Málaga (Prof. A. Murillo))**.  
05/07/2015  
Málaga

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## Referee of the following journals

Journals **Algebraic and Geometric Topology, Geometric and Functional Analysis (GAFA), Duke Mathematical Journal, Mathematical Research Letters.**

Databases **zbMATH.**



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## Projects

- 17/03/2023 - **PI of GNSAGA 2023 - CUP E53C22001930001 - "Bounded cohomology and simplicial volume: new computations and applications"**, 3000 Euro.  
17/03/2024
- 10/2023 - **Member of PRIN proposal code 2022NMPLT8 - CUP J53D23003820001 - "Geometry and topology of manifolds"**, Italy.  
present
- 17/01/2023 - **Member of ERC 101077154 — DAT (PI Martino Lupini)**, Italy.  
present
- 01/01/2019 - **Member of SFB Higher Invariants 1085**, *Founded by DFG*, Regensburg (Germany).  
31/12/2021
- 01/01/2016 - **Member of GNSAGA**, *Founded by Indam*, Italy.  
present

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## Prizes and grants

- 9 - **Oberwolfach Leibniz Graduate Students (OWLG)**, *Grant for graduate students and recent postdocs (up to an amount of 200 euros for travel costs)*.  
15/02/2020
- 23/11/2019 **PhD thesis prize**, *One of the best two PhD thesis in Mathematics, Physics, Informatics and Earth Science defended during the academic year 2018/2019 at the University of Pisa*.

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## Scholarships and Contracts

- 01/01/2019 - **3-years postdoc funded by the project SFB Higher Invariants 1085**, *Universität Regensburg*.  
31/12/2021
- 01/01/2015 **Ph.D. Scholarship**, *Università di Pisa*.  
31/10/2018
- 16/04/2018 **Teaching Support**, *Istituzioni di Geometria (Differential Geometry)*, Mathematics,  
30/06/2018 Pisa.
- 01/06/2017 **Teaching Support**, *Geometry I*, Physics, Pisa.  
30/09/2017
- 20/10/2016 **Teaching Support**, *Geometry I*, Physics, Pisa.  
20/12/2016
- 2015 **Scholarship for writing the master thesis abroad**, *Extra Project*, Università degli studi di Milano-Bicocca.

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## Teaching

- Academic Year **Lecturer**, *Geometry and Algebra*, Bachelor course at the Faculty of Biomedical  
2022/2023 Engineering and Electronics Engineering , 6 ECTS.  
First Semester
- Academic Year **Lecturer**, *Algebra and Geometry (Module 1)*, Bachelor course at the Faculty of  
2021/2022 Computer Science and Engineering (Campus of Cesena), 3 ECTS.  
Second Semester

- Winter Semester 2021/2022 **Co-organizer with George Raptis**, *HIOB: Aspherical manifolds*, Reading seminars for the SFB people (Regensburg).
- Winter Semester 2019/2020 **Lecturer**, *Bounded cohomology and simplicial volume*, Master course at the Faculty of Mathematics (Regensburg), 6 ECTS.
- Academic Year 2016/2017 Second Semester **Teaching Support**, *Istituzioni di Geometria (Differential Geometry)*, Mathematics, Pisa.
- 2017/2018 **Examination Board - Cultore della Materia**, *Geometry and Differential Topology*, Mathematics, Pisa.
- Academic Year 2016/2017 Second Semester **Teaching Support**, *Geometry I*, Physics, Pisa.
- Academic Year 2016/2017 First Semester **Teaching Support**, *Geometry I*, Physics, Pisa.
- 2016/2017 **Examination Board - Cultore della Materia**, *Geometry and Differential Topology*, Mathematics, Pisa.

## Workshops, Conferences and Schools attended

- 26/09/2022 **Recent advances in bounded cohomology**, *Universität Regensburg*, Regensburg (Germany).
- 30/09/2022 **Marc Burger's Prime**, *ETHZ*, Zürich (Switzerland).
- 27/06/2022 **Marc Burger's Prime**, *ETHZ*, Zürich (Switzerland).
- 01/07/2022
- 27/09/2021 **DMV-ÖMG-Jahrestagung 2021, Sektion Geometrie und Topologie**, *online*, Universität Passau (Germany).
- 01/10/2021
- 06/09/2021 **Counting problems**, *Centro Polivalente*, Ventotene (Italy).
- 11/09/2021
- 29/06/2021 **Virtual workshop: Real and complex manifolds. The mathematical heritage of Edoardo Vesentini**, *Scuola Normale Superiore*, Pisa (Italy).
- 02/07/2021
- 21/09/2020 **Virtual workshop: Simplicial volumes and bounded cohomology**, *Università di Regensburg*, Finanziato dal progetto Higher Invariants 1085, Regensburg (Germany).
- 25/02/2020
- 10/02/2020 **Manifolds and groups**, *MFO (Mathematisches Forschungsinstitut Oberwolfach)*, Oberwolfach (Germany).
- 14/02/2020
- 27/01/2020 **V Congreso de Jóvenes Investigadores de la RSME**, *Universitat Jaume I*, Castellon de la Plana (Spain).
- 31/01/20
- 05/12/2019 **Bavarian Geometry and Topology Meeting VI**, *Universität Augsburg*, Augsburg (Germany).
- 06/12/2019
- 09/09/2019 **Of course! Quasi-isometries and groups: rigidity and classification**, *Centro Polivalente*, Ventotene (Italy).
- 14/09/2019

- 29/07/2019 **Workshop on Bounded Cohomology**, *Mathematikon Heidelberg*, Heidelberg  
02/08/2019 (Germany).
- 31/06/2019 **Young Geometric Group Theory VIII**, *Facultad de Economía y Empresa (Campus*  
05/07/2019 *Sarriko de la UPV/EHU)*, Bilbao (Spain).
- 08/04/2019 **Workshop: Riemannian and simplicial volume**, *KIT*, Karlsruhe (Germany).  
11/04/2019
- 21/02/2019 **Workshop su varietà reali e complesse: geometria, topologia e analisi comp-**  
23/02/2019 **lessa**, *SNS Pisa*, Pisa (Italy).
- 22/01/2019 **Groups, geometries and spaces in honour of Alessandra Iozzi**, *ETH Zürich*,  
25/01/2019 Zürich (Switzerland).
- 19/10/2018 **XXV Encuentro de Topología**, *Institut d'Estudis Catalans*, Barcelona (Spain).  
20/10/2018
- 16/10/2018 **VII Encuentro des Jóvenes Topólogos**, *CRM de Barcelona*.  
18/10/2018  
Barcelona
- 17/09/2018 **Joint meeting of the Italian Mathematical Union, the Italian Society of Indus-**  
20/09/2018 **trial and Applied Mathematics and the Polish Mathematical Society**, *University*  
Wrocław *of Wrocław*.
- 02/07/2018 **Representation varieties and geometric structures in low dimensions**, *Mathe-*  
06/07/2018 *matics Institute, Warwick University*, Coventry (U.K.).
- 03/03/2018 **Topological and Homological Methods in Group Theory**, *Faculty of Mathemat-*  
06/03/2018 *ics, Bielefeld University*, Bielefeld (Germany).
- 12/03/2018 **Young Geometric Group Theory VII**, *Congress Center*, Les Diablerets  
16/03/2018 (Switzerland).
- 1/02/2018 **Workshop 2018, Varietà reali e complesse: geometria, topologia e analisi**  
3/02/2018 **armonica**, *Scuola Normale Superiore*, Pisa (Italy).
- 25/09/2017 **Higher Invariants: Manifolds and Groups**, *Universität Regensburg*, Regensburg  
29/09/2017 (Germany).
- 11/09/2017 **Ventotene International Workshop 2017: Moduli Spaces**, *Centro Polivalente*,  
16/09/2017 Venototene (Italy).
- 19/06/2017 **Group Actions and Cohomology in Non-Positive Curvature**, *Isaac Newton In-*  
24/06/2017 *stitute*, Cambridge (U.K.).
- 04/06/2017 **Indam Meeting: Geometric Topology in Cortona**, *Palazzone*, Cortona (Italy).  
10/06/2017
- 20/03/2017 **Young Geometric Group Theory Meeting VI**, *Mathematical Institute*, Oxford  
24/03/2017 (U.K.).
- 21/10/2016 **XXIII Encuentro de Topología**, *Universidad de Málaga*, Málaga (Spain).  
22/10/2016
- 18/10/2016 **V Encuentro de Jóvenes Topólogos Espanoles**, *Universidad de Málaga*, Málaga  
20/10/2016 (Spain).
- 20/06/2016 **Geometric Analysis, Metric Geometry and Topology**, *Institut Fourier*, Grenoble  
01/07/2016 (France).

23/05/2016 **Advanced School on Geometric Group Theory and Low-Dimensional Topology: Recent Connections and Advances**, *ICTP*, Trieste (Italy).  
03/06/2016  
29/06/2015 **4th Spanish Young Topologists Meeting**, *Universidad Complutense*, Madrid  
02/07/2015 (Spain).

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## Languages

Italian Native Speaker  
English Fluent  
French Fluent  
Spanish Fluent  
German Basic