Marco Moraschini

Dipartimento di Matematica
Università di Bologna
40126 Bologna, Ufficio C4
✉ *marco.moraschini2@unibo.it*

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`.
E-mail	**marco.moraschini2@unibo.it**.
Working Address	**Dipartimento di Matematica**, *Università di Bologna*, 40126 Bologna, Ufficio C4.

Positions and Titles

2024 present	**National Scientific Habilitation for full professor**.
2023 present	**National Scientific Habilitation for associate professor**.
08/03/2026 presente	**Associate Professor**.
18/09/2025 27/09/2025	**Paternity leave**.
08/03/2023 07/03/2026	**Senior Assistant Professor (fixed-term, tenure-track position)**, University of Bologna.
10/01/2022 07/03/2023	**Junior Assistant Professor (fixed-term)**, University of Bologna.
01/01/2019 31/12/2021	**Postdoctoral researcher**, *University of Regensburg*, Funded by SFB Higher Invariants 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 06/12/2018	**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.* DOI: `https://doi.org/10.13131/unipi/etd/11242018-182437`
08/10/2013 23/07/2015	**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.*

24/08/2010 **Bachelor Degree**, *Università degli Studi di Milano-Bicocca (Milano)*, 110/110
15/10/2013 cum Laude, *Thesis title: Weak Convergence and Wiener Measure, Advisor: Prof. Francesco Caravenna*.

Research

Research interests

- **Simplicial volume and bounded cohomology**.
- **Topology of manifolds**.
- **Geometric group theory**.
- **Low dimensional topology and hyperbolic geometry**.
- **Simplicial homotopy theory**.

Preprints (submitted)

(25) **K. Li, C. Löh, M. Moraschini, R. Sauer and M. Uschold**, The cheap embedding principle: Dynamical upper bounds for homology growth, (`https://arxiv.org/abs/2508.01347`), (104 pages).

(24) **K. Li, M. Moraschini, G. Raptis**, The Serre spectral sequence in bounded cohomology, (`https://arxiv.org/abs/2503.22505`), (33 pages).

(23) **A. Casali, M. Moraschini**, Topological volumes of certain complete affine manifolds, (`https://arxiv.org/abs/2502.06303`), (17 pages).

Publications

Journal papers

(22) **G. Bargagnati, A. Casali, F. Milizia, M. Moraschini**, Minimal volume entropy of mapping tori over 3-manifolds, to appear in **Mathematische Annalen**, (`https://arxiv.org/abs/2509.17851`).

(21) **C. Campagnolo, F. Fournier-Facio, Y. Lodha, M. Moraschini**, An algebraic criterion for the vanishing of bounded cohomology, **Compositio Mathematica**, 162 (1), 1–58.
(`https://doi.org/10.1017/S0010437X26102954`)

(20) **K. Li, C. Löh, M. Moraschini, R. Sauer and M. Uschold**, The algebraic cheap rebuilding property, to appear in **Transactions of the American Mathematical Society**, (`https://arxiv.org/abs/2409.05774`).

(19) **M. Moraschini, G. Raptis**, Addendum to "Amenability and acyclicity in bounded cohomology", **Revista Matemática Iberoamericana**, 41 (6) (2025), 2215–2220.
(`https://ems.press/journals/rmi/articles/14298515`)

(18) **C. Campagnolo, F. Fournier-Facio, Y. Lodha, M. Moraschini**, Displacement techniques in bounded cohomology, **manuscripta mathematica**, 176 (6) (2025), 1–26.
(`https://link.springer.com/article/10.1007/s00229-024-01604-9`)

(17) **K. Li, C. Löh, M. Moraschini**, Bounded acyclicity and relative simplicial volume, **Journal of Topology and Analysis**, 18 (2) (2026), 423–478.
(`https://www.worldscientific.com/doi/10.1142/S1793525324500365`)

(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, **Revista Matemática Iberoamericana**, 39 (6) (2023), 2371–2404.
(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, **Annali della Scuola Normale di Pisa. Classe di Scienze**, XXIV (2) (2024), 1169–1202.
(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)

(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-manfolds, **Oberwolfach Reports**, 17 (1) (2020), 417–463.
(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, **London Mathematical Society Lecture Note Series**, 479 (2022).

Preprint version: https://www.dm.unibo.it/~marco.moraschini2/Proceedings_IYSBC_SV.pdf

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

Forthcoming talks

Talks

23/01/2026 Salonicco — **Introduction to boundedly acyclic groups**, *Topology & Geometry Seminar (online)*, University of Thessaloniki, Thessaloniki.

23/06/2025 Parigi — **Simplicial volume and complete affine manifolds**, ***Invited speaker for a research talk***, IMJ-PRG Summer school: 2025 Groupoids from a measurable, topological and geometric perspective, Università Paris Diderot.
Parigi

21/05/2025 Bologna — **An introduction to simplicial volume**, ***Invited speaker***, Topics in Mathematics, Dipartimento di Matematica dell'Università di Bologna.
Bologna

19/02/2025 Cambridge — **Simplicial volume and aspherical manifolds**, *Differential Geometry and Topology Seminar*, University of Cambridge, Cambridge.

15/11/2024 Roma — **An introduction to acyclicity in bounded cohomology**, *Algebra and Geometry Seminars*, University of Tor Vergata, Roma.

20/09/2024 Pisa **Simplicial volume and complete affine manifolds**, ***Invited speaker***, LiT II (Lost in Topology), Centro di Ricerca Matematica Ennio De Giorgi. Pisa

11/04/2024 Firenze **An introduction to acyclicity in bounded cohomology**, *Geometry Seminars*, University of Firenze, Firenze.

04/09/2023 Pisa **Simplicial volume and amenable covers**, ***Invited speaker***, Congresso UMI 2023, Sezione: Topologia e Geometria Differenziale, Scuola Normale Superiore–Università di Pisa.

15/06/2023 Pisa **Acyclicity in bounded cohomology**, *Geometry Seminars*, Dipartimento di Matematica (University of Pisa), Pisa.

24/05/2023 Zürich **Simplicial volume and aspherical manifolds**, *Geometry Seminar*, ETHZ, Zürich.

01/03/2023 Madrid **New computations in bounded cohomology**, *Group Theory Seminar*, Universidad Autonoma de Madrid, Madrid.

28/02/2023 Madrid **Simplicial volume and amenable covers**, *Seminario Antonio Giraldo y Sonia Sastre*, Universidad Politécnica de Madrid, Madrid.

31/01/2023 Online **Chern conjecture and simplicial volume**, *IYSBC-SV Seminars*, Online seminar, Regensburg.

27/05/2022 Bologna **Introduzione alla coomologia limitata, parte 2**, *TGV Seminars*, University of Bologna, Italy.

20/05/2022 Bologna **Introduzione alla coomologia limitata, parte 1**, *TGV Seminars*, University of Bologna, Italy.

06/05/2022 Online **New computations in bounded cohomology**, *Online seminar on Probabilistic and Geometric Group Theory*, online seminar, Germany–Spain.

04/05/2022 Pisa **Simplicial volume and aspherical manifolds**, *Seminari di Geometria*, University of Pisa, Italy.

08/04/2022 Bologna **Cenni di teoria geometrica dei gruppi**, *TGV Seminars*, University of Bologna, Italy.

22/02/2022 Bologna **Simplicial volume and aspherical manifolds**, *Algebra and Geometry Seminars*, University of Bologna, Italy.

10/02/2022 Columbus **Aspherical manifolds and simplicial volume**, *Topology and geometric group theory seminars at Ohio State University (online)*, Ohio State University, United States.

11/01/2022 Bonn **On the simplicial volume and Euler characteristic of (aspherical) manifolds**, *Topology seminars (online)*, Bonn Mathematical Insitute, Germany.

07/12/2021 Regensburg **Aspherical manifolds and simply(cial) thanks à vous(lume)**, *LKS*, Universität Regensburg, Germany.

30/09/2021 Passau **Acyclicity and amenability in bounded cohomology**, *contributed talk*, DMV–ÖMG–Jahrestagung 2021, Sektion Geometrie und Topologie, Universität Passau (online), Germany.

02/07/2021 Pisa **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 Regensburg **LS-cat and applications**, *LKS Seminar*, Online Seminar, Regensburg, Germany.

11/01/2021 Regensburg — **Simplicial volume and Euler characteristic**, *HIOB Seminar*, Online Seminar, Regensburg, Germany.

02/11/2020 Regensburg — **Gromov's Mapping Theorem via multicomplexes**, *IYSBC-SV*, Online Seminar, Regensburg, Germany.

6/10/2020 Boston — **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.

07/05/2020 Regensburg — **Simplicial volume via normalised cycles**, *LKS Seminar*, Universität Regensburg, (Online seminar), Germany.

29/02/2020 Pisa — **Stable integral simplicial volume of 3-manifolds**, ***Invited speaker***, Workshop 2020: varietà reali e complesse: geometria, topologia ed analisi armonica, Scuola Normale Superiore.
(Cancelled because of COVID-19)

14/02/2020 Oberwolfach — **Stable integral simplicial volume of 3-manifolds**, ***Invited speaker***, Manifolds and groups, MFO (Mathematisches Forschungsinstitut Oberwolfach), Germany.

27/01/2020 31/01/2020 Castellón de la Plana — **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.

12/12/2019 Karlsruhe — **Stable integral simplicial volume of 3-manifolds**, *AG Topologie Seminars*, KIT (Karlsruher Institut für Technologie), Germany.

6/12/2019 Ausburg — **Stable integral simplicial volume of 3-manifolds**, ***Invited speaker***, Bavarian Geometry and Topology Meeting VI, Universität Ausburg, Germany.

23/11/2019 Pisa — **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, Lightening talk, Italy.

01/08/2019 Heidelberg — **Ideal simplicial volume of manifolds with boundary**, ***Invited speaker***, Workshop on Bounded Cohomology, Universität Heidelberg, Germany.

09/07/2019 Bologna — **Simplicial volume of non-compact manifolds**, *BAD (Borsisti, Assegnisti, Dottorandi) Seminars*, Mathematical Department of Bologna, Italy.

03/06/2019 Warwick — **Simplicial volume and amenable covers**, *Junior Geometry and Topology Seminar*, Warwick University, U. K..

15/04/2019 Milan — **Simplicial volume and amenable coverings**, *Colloquium of the Department of Mathematics*, Mathematical Department of Milano-Bicocca, Italy.

08/04/2019 Karlsruhe — **Gromov's theory of multicomplexes with applications to closed manifolds**, ***Invited speaker***, Workshop: Riemannian and Simplicial Volume, KIT (Karlsruher Institut für Technologie), Germany.

05/02/2019 Regensburg — **Simplicial volume and amenable coverings**, *SFB-Lectures*, Universität Regensburg, Germany.

22/11/2018 Pisa — **Why do we care about multicomplexes?**, *Baby Geometri Seminars*, Mathematical Department of Pisa, Italy.

18/10/2018 Barcelona — **Una introducción al volumen simplicial ideal**, *VII Encuentro des Jóvenes Topólog@s*, CRM de Barcelona, Spain.

17/09/2018 Wrocław — **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 Regensburg — **An introduction to ideal simplicial volume**, *Oberseminar Globale Analysis*, Universität Regensburg, Germany.

18/05/2018 Karlsruhe — **An introduction to ideal simplicial volume**, *AG Topologie Seminars*, KIT (Karlsruher Institut für Technologie), Germany.

17/05/2018 Zürich — **An introduction to simplicial volume**, *Geometry graduate colloquium*, ETH Zürich, Switzerland.

11/04/2018 Pisa — **An introduction to ideal simplicial volume**, *Seminari di Geometria*, Mathematical Department of Pisa, Italy.

02/03/2018 Milano — **Simplicial volume: when volume becomes a topological invariant**, *Insalate di Matematica*, Mathematical Department of Milano-Bicocca, Italy.

04/12/2017 Bologna — **Lecture on mathematical good manners: the Gromov Norm**, *BAD (Borsisti, Assegnisti, Dottorandi) Seminars*, Mathematical Department of Bologna.

20/10/2016 Málaga — **Categoría seccional abstracta en diferentes estructuras de modelo sobre los espacios topológicos**, *V Encuentro de Jóvenes Topólogos*, Italy.

02/12/2015 Pisa — **Topological invariants in model categories**, *Baby Geometri Seminars*, Mathematical Department of Pisa, Italy.

25/06/2015 Málaga — **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 Ventotene — **Amenable category and simplicial volume**, *Counting problems*, Centro Polivalente, Lightening talk.
Italy

09/09/2019 Ventotene — **Multicomplexes, bounded cohomology and simplicial volume**, *Of coarse! Quasi-isometries and groups: rigidity and classification*, Centro Polivalente, Lightening talk.
Italy

02/07/2019 Bibao — **Simplicial volume**, *Young Geometric Group Theory VIII*, Facultad de Economía y Empresa (Campus Sarriko de la UPV/EHU), Lightening talk.
Spain

19/10/2018 Barcelona — **Volumen simplicial ideal**, *XXV Encuentro de Topología*, Poster, Spain.

12/03/2018 Les Diablerets — **Ideal simplicial volume**, *Young Geometric Group Theory VII*, Congress Center, Poster.
Switzerland

1-3/02/2018 Pisa — **Ideal simplicial volume**, *Workshop 2018, Varietà reali e complesse: geometria, topologia e analisi armonica*, Scuola Normale Superiore, Poster.
Italy

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

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

PhD students

(2) **Alberto Casali**, *November 2024–present*, PhD student at the University of Pisa, (internal supervisor: Prof. Roberto Frigerio).

(1) **Elena Bogliolo**, *November 2023–present*, PhD student at the University of Pisa, (internal supervisor: Prof. Roberto Frigerio).

Supervised projects

Anno accademico 2025/2026 Bologna **Arianna Fabbri**, *Introduzione alla teoria dei nodi*, Università di Bologna, Bachelor thesis.

Anno accademico 2025/2026 Bologna **Anna Bertozzi**, *Il gruppo di Thompson F e il problema della sua amenabilità*, Università di Bologna, Bachelor thesis.

Anno accademico 2025/2026 Bologna **Alice Floridi**, *Teorema di HNN-Seifert-Van Kampen*, Università di Bologna, Bachelor thesis.

Anno accademico 2024/2025 Bologna **Pietro Alberici**, *Fibrazioni e torri di Postnikov*, Università di Bologna, Bachelor thesis.

Anno accademico 2024/2025 Bologna **Miguel Gentili**, *The bounded cohomology of the transformation groups of Euclidean spaces*, Università di Bologna, Master thesis.

Anno accademico 2024/2025 Bologna **Jacopo Stortini**, *Forma di intersezione delle 4-varietà differenziabili*, Università di Bologna, Bachelor thesis.
(co-supervised together with Giuseppe Bargagnati)

Anno accademico 2024/2025 Bologna **Matilde Fornoni**, *Teoria di Morse e decomposizione in manici*, Università di Bologna, Bachelor thesis.

Anno accademico 2024/2025 Bologna **Margherita Botti**, *Amenabilità, matchings e il paradosso di Banach-Tarski*, Università di Bologna, Bachelor thesis.

Anno accademico 2024/2025 Bologna — **Francesco Cerroni**, *Sulla positività del volume simpliciale nelle varietà iperboliche*, Università di Bologna, Bachelor thesis.

Academic year 2023/2024 Pisa — **Alberto Casali**, *Simplicial volume and affine manifolds*, Scuola Normale Superiore – Università di Pisa, Master thesis.

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

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

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

Academic service

01/11/2025-present — **Member of the "Collegio Docenti del Dottorato di Matematica dell'Università di Bologna"**.

11/07/2024-present — **Member of the "Commissione paritetica" for the evaluation of the Bachelor and Master of the Department of Mathematics in Bologna**, *the committee consists of 6 people: 3 of them are either tenured researchers or professors and 3 of them are Bachelor or Master students*.

Organizational experience

8-10/04/2026 — **Manifolds and groups in Bologna IV**, *Università di Bologna*, Co-organizzatori: Giuseppe Bargangati, Francesco Milizia, Grazia Rago and Stefano Riolo (Università di Bologna), Filippo Sarti (Università di Pisa), Nicholas Rungi and Andrea Seppi (Università di Torino), `https://eventi.unibo.it/manifolds-and-groups-bologna-2026`.

14-16/04/2025 — **Manifolds and groups in Bologna III**, *Università di Bologna*, Co-organizers:Giuseppe Bargagnati, Stefano Riolo (Università di Bologna) and Filippo Sarti (Università di Pisa), `https://math.unibo.it/en/events/manifolds-and-groups-in-bologna-2025`.

17-19/04/2024 — **Manifolds and groups in Bologna II**, *Università di Bologna*, Co-organizers: Filippo Sarti and Stefano Riolo (Università di Bologna) and Filippo Sarti (Università di Torino), `https://math.unibo.it/en/events/non-positive-curvature-in-manifolds-and-groups`.

24/03/2023 — **Attività INdAM: Non-positive curvarture in manifolds and groups**, *Università di Bologna*, Co-organizers: Ludovico Battista, Pierluigi Contucci, Stefano Francaviglia and Stefano Riolo (Università di Bologna) e Filippo Sarti (Università di Torino), `https://matematica.unibo.it/it/eventi/udr-indam-bo-2023-03-24`.

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

26/09/2022 - 30/09/2022 **Workshop: Recent Advances in Bounded Cohomology**, *Universität Regensburg*, 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.

Summer semester 2022 **International young seminar on bounded cohomology and simplicial volume**, *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.

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

Winter 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.

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.

Winter semester 2021 **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.

21/09/2020 - 25/09/2020 **Virtual workshop on Simplicial volumes and bounded cohomology**, *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.

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.

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

Research visiting period

17/02/2025 - 21/02/2025 Cambridge **Research period at the Department of Pure Mathematics and Mathematical Statistics (PhD F. Fournier-Facio)**.

15/01/2024 - 19/01/2024 Regensburg **Research period at the Universität Regensburg (Prof. C. Löh)**.

22/05/2023 - 26/05/2023 Zürich — **Research period at the FIM – ETHZ (F. Fournier-Facio)**.

27/02/2023 - 02/03/2023 Madrid — **Research period at the Universidad Autonoma de Madrid (PhD C. Campagnolo)**.

24/02/2020 - 28/02/2020 Pisa — **Research period at Univeristà di Pisa (Prof. R. Frigerio)**.

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

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

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

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

Referee of the following journals and PhD theses

PhD theses — **Domenico Marasco (Università di Pisa, 2023), Giuseppe Bargagnati (Università di Pisa, 2024) and Federica Bertolotti (Scuola Normale Superiore di Pisa, 2025)**.

Journals — **Algebraic and Geometric Topology, Duke Mathematical Journal, Geometric and Functional Analysis (GAFA), Journal of the Mathematical Society Japan, Journal of the École Polytechnique, Mathematical Research Letters, Mathematischen Annalen**.

Databases — **zbMATH**.

Projects

17/03/2023 - 17/03/2024 — **PI of GNSAGA 2023 - CUP E53C22001930001 - "Bounded cohomology and simplicial volume: new computations and applications"**, *3000 Euro*.

10/2023 - present — **Member of PRIN proposal code 2022NMPLT8 - CUP J53D23003820001 - "Geometry and topology of manifolds"**, *Italy*.

17/01/2023 - present — **Member of ERC 101077154 — DAT (PI Martino Lupini)**, *Italy*.

01/01/2019 - 31/12/2021 — **Member of SFB Higher Invariants 1085**, *Founded by DFG*, Regensburg (Germany).

01/01/2016 - present — **Member of GNSAGA**, *Founded by Indam*, Italy.

Prizes and grants

9 - 15/02/2020 **Oberwolfach Leibniz Graduate Students (OWLG)**, *Grant for graduate students and recent postdocs (up to an amount of* 200 *euros for travel costs).*

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*.

Scholarships and Contracts

01/01/2019 - 31/12/2021 **3-years postdoc funded by the project SFB Higher Invariants 1085**, *Universität Regensburg*.

01/01/2015 31/10/2018 **Ph.D. Scholarship**, *Università di Pisa*.

16/04/2018 30/06/2018 **Teaching Support**, *Istituzioni di Geometria (Differential Geometry)*, Mathematics, Pisa.

01/06/2017 30/09/2017 **Teaching Support**, *Geometry I*, Physics, Pisa.

20/10/2016 20/12/2016 **Teaching Support**, *Geometry I*, Physics, Pisa.

2015 **Scholarship for writing the master thesis abroad**, *Extra Project*, Università degli studi di Milano-Bicocca.

Teaching

Academic Year 2025/2026 Second Semester **Lecturer**, *Geometric topology*, Master course at the Department of Mathematics, 6 ECTS.

Academic Year 2025/2026 First Semester **Lecturer**, *Geometry and Algebra*, Bachelor course at the Department of Biomedical Engineering and Electronics Engineering , 6 ECTS.

Academic Year 2024/2025 First Semester **Lecturer**, *Geometry and Algebra*, Bachelor course at the Department of Biomedical Engineering and Electronics Engineering , 6 ECTS.

Academic Year 2023/2024 **Lecturer together with Filippo Sarti**, *Introduction to bounded cohomology and simplicial volume*, PhD course for the PhD program in Mathematics ad the Università di Bologna, 25 hours (in total).

Academic Year 2023/2024 First Semester **Lecturer**, *Geometry and Algebra*, Bachelor course at the Department of Biomedical Engineering and Electronics Engineering , 6 ECTS.

Academic Year 2022/2023 First Semester **Lecturer**, *Geometry and Algebra*, Bachelor course at the Department of Biomedical Engineering and Electronics Engineering , 6 ECTS.

Academic Year 2021/2022 Second Semester — **Lecturer**, *Algebra and Geometry (Module 1)*, Bachelor course at the Department of Computer Science and Engineering (Campus of Cesena), 3 ECTS.

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

23/06/2025 27/06/2025 — **IMJ-PRG Summer school: 2025 Groupoids from a measurable, topological and geometric perspective**, *University Paris Diderot*, Parigi.

14-16/04/2025 — **Manifolds and groups in Bologna III**, *Università di Bologna*, Bologna.

19/09/2024 20/09/2024 — **LiT II (Lost in Topology)**, *Scuola Normale Superiore–Università di Pisa*, Centro di Ricerca Matematica Ennio De Giorgi, Pisa.

17-19/04/2024 — **Manifolds and groups in Bologna II**, *Università di Bologna*, Bologna.

04/09/2023 05/09/2023 — **Congresso UMI 2023, Sezione: Topologia e Geometria Differenziale**, *Scuola Normale Superiore–Università di Pisa*.

11/09/2023 16/09/2023 — **GRAZP: Groups and Rigidity Around the Zimmer Program**, *Centro Polivalente*, Venototene (Italy).

24/03/2023 — **Attività INdAM: Non-positive curvarture in manifolds and groups**, *Università di Bologna*, Bologna.

22-23/03/2023 — **Manifolds and groups in Bologna (GNSAGA Workshop)**, *Università di Bologna*, Bologna.

26/09/2022 – 30/09/2022 **Recent advances in bounded cohomology**, *Universität Regensburg*, Regensburg (Germany).

27/06/2022 – 01/07/2022 **Marc Burger's Prime**, *ETHZ*, Zürich (Switzerland).

27/09/2021 – 01/10/2021 **DMV–ÖMG–Jahrestagung 2021, Sektion Geometrie und Topologie**, *online*, Universität Passau (Germany).

06/09/2021 – 11/09/2021 **Counting problems**, *Centro Polivalente*, Ventotene (Italy).

29/06/2021 – 02/07/2021 **Virtual workshop: Real and complex manifolds. The mathematical heritage of Edoardo Vesentini**, *Scuola Normale Superiore*, Pisa (italy).

21/09/2020 – 25/02/2020 **Virtual workshop: Simplicial volumes and bounded cohomology**, *Università di Regensburg*, Finanzato dal progetto Higher Invariants 1085, Regensburg (Germany).

10/02/2020 – 14/02/2020 **Manifolds and groups**, *MFO (Mathematisches Forschungsinstitut Oberwolfach)*, Oberwolfach (Germany).

27/01/2020 – 31/01/20 **V Congreso de Jóvenes Investigadores de la RSME**, *Universitat Jaume I*, Castellon de la Plana (Spain).

05/12/2019 – 06/12/2019 **Bavarian Geometry and Topology Meeting VI**, *Universität Ausburg*, Augsburg (Germany).

09/09/2019 – 14/09/2019 **Of coarse! Quasi-isometries and groups: rigidity and classification**, *Centro Polivalente*, Venototene (Italy).

29/07/2019 – 02/08/2019 **Workshop on Bounded Cohomology**, *Mathematikon Heidelberg*, Heidelberg (Germany).

31/06/2019 – 05/07/2019 **Young Geometric Group Theory VIII**, *Facultad de Economía y Empresa (Campus Sarriko de la UPV/EHU)*, Bilbao (Spain).

08/04/2019 – 11/04/2019 **Workshop: Riemannian and simplicial volume**, *KIT*, Karlsruhe (Germany).

21/02/2019 – 23/02/2019 **Workshop su varietá reali e complesse: geometria, topologia e analisi complessa**, *SNS Pisa*, Pisa (Italy).

22/01/2019 – 25/01/2019 **Groups, geometries and spaces in honour of Alessandra Iozzi**, *ETH Zürich*, Zürich (Switzerland).

19/10/2018 – 20/10/2018 **XXV Encuentro de Topología**, *Institut d'Estudis Catalans*, Barcelona (Spain).

16/10/2018 – 18/10/2018 Barcelona **VII Encuentro des Jóvenes Topólog@s**, *CRM de Barcelona*.

17/09/2018 – 20/09/2018 Wrocław **Joint meeting of the Italian Mathematical Union, the Italian Society of Industrial and Applied Mathematics and the Polish Mathematical Society**, *University of Wrocław*.

02/07/2018 – 06/07/2018 **Representation varieties and geometric structures in low dimensions**, *Mathematics Institute, Warwick Unviersity*, Coventry (U.K.).

03/03/2018 – 06/03/2018 **Topological and Homological Methods in Group Theory**, *Faculty of Mathematics, Bielefeld Unviersity*, Bielefeld (Germany).

12/03/2018 – 16/03/2018 **Young Geometric Group Theory VII**, *Congress Center*, Les Diablerets (Switzerland).

1/02/2018 – 3/02/2018 **Workshop 2018, Varietà reali e complesse: geometria, topologia e analisi armonica**, *Scuola Normale Superiore*, Pisa (Italy).

25/09/2017 – 29/09/2017 **Higher Invariants: Manifolds and Groups**, *Universität Regensburg*, Regensburg (Germany).

11/09/2017 – 16/09/2017 **Ventotene International Workshop 2017: Moduli Spaces**, *Centro Polivalente*, Venototene (Italy).

19/06/2017 – 24/06/2017 **Group Actions and Cohomology in Non-Positive Curvature**, *Isaac Newton Institute*, Cambridge (U.K.).

04/06/2017 – 10/06/2017 **Indam Meeting: Geometric Topology in Cortona**, *Palazzone*, Cortona (Italy).

20/03/2017 – 24/03/2017 **Young Geometric Group Theory Meeting VI**, *Mathematical Institute*, Oxford (U.K.).

21/10/2016 – 22/10/2016 **XXIII Encuentro de Topología**, *Universidad de Málaga*, Málaga (Spain).

18/10/2016 – 20/10/2016 **V Encuentro de Jóvenes Topólogos Espanoles**, *Universidad de Málaga*, Málaga (Spain).

20/06/2016 – 01/07/2016 **Geometric Analysis, Metric Geometry and Topology**, *Institut Fourier*, Grenoble (France).

23/05/2016 – 03/06/2016 **Advanced School on Geometric Group Theory and Low-Dimensional Topology: Recent Connections and Advances**, *ICTP*, Trieste (Italy).

29/06/2015 – 02/07/2015 **4th Spanish Young Topologists Meeting**, *Universidad Complutense*, Madrid (Spain).

Languages

Italian	Native Speaker
English	Fluent
French	Fluent
Spanish	Fluent
German	Basic