

# Francesco Matucci

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## Research Interests

I am interested in questions regarding combinatorial, computational and geometric group theory: decision problems, finiteness properties, subgroup classification, growth and dynamics in groups, such as piecewise-linear homeomorphism groups, Thompson groups, diagram groups and inverse semigroups, free groups, right-angled Artin groups, Baumslag-Solitar groups, automata groups, surface groups, lamplighter groups, nilpotent groups and arithmetic groups.

## Education

- 2016 *Livre Docência em Álgebra* ( $\approx$  French or German Habilitation), UNICAMP, Brazil.
- 2004 – 2008 *PhD in Mathematics*, Cornell University, USA.
- 2004 – 2006 *MSc in Mathematics*, Cornell University, USA.
- 2003 – 2005 *Dottorato di Ricerca, Mathematics*, Università di Firenze, Italy.
- 1996 – 2002 *Laurea, Mathematics, cum Laude*, Università di Firenze, Italy.

## Employment

- 2018 – current **Ricercatore RTDb (Assistant Professor) in Algebra**, Università di Milano - Bicocca, Milan, Italy.
- 2016 – current **CEMAT Collaborator Member**, Center for Computational and Stochastic Math, Lisbon, Portugal.
- 2016 – 2018 **Professor Associado MS 5.1 (Associate Professor)**, UNICAMP, Brazil.
- 2015 – 2016 **Professor Doutor MS 3.1 ( $\approx$  UK Lecturer  $\approx$  US Assistant Prof)**, UNICAMP, Brazil.
- 2014 – 2015 **FCT Ciencia e Tecnologia Research Fellow**, Universidade de Lisboa, Lisbon, Portugal.
- 2012 – 2014 **CNRS-FMJH Sophie Germain Postdoctoral Fellow**, Université de Paris-Sud 11, France.
- 2009 – 2012 **Whyburn Postdoctoral Instructor in Algebra**, University of Virginia, USA.
- 2008 – 2009 **CRM Postdoctoral Researcher**, Centre de Recerca Matemàtica Barcelona, Spain.

## Qualifications

- 2017 – 2023 **Professore di II fascia (Associate Professor)**, ASN, MIUR, #27800, Algebra/Geometry, Italy.
- 2017 – 2021 **Professeur des Universités #17125199711, Sec. 25 – Math**, France.
- 2017 – 2021 **Maître de conférences #17225199711, Sec. 25 – Math**, France.
- 2009 – lifetime **Professor Lector ( $\approx$  UK Lecturer) #U1443/9849521-92, Math**, Catalonia.

## MathSciNet, Scopus, ResearcherID and Google Scholar links

- MathSciNet <http://www.ams.org/mathscinet/search/author.html?mrauthid=788744>.
- Scopus <https://www.scopus.com/authid/detail.uri?authorId=24177239000>.
- ResearcherID <http://www.researcherid.com/rid/I-1012-2016>.
- GoogleScholar <https://scholar.google.com/citations?user=snKwKR0AAAAJ&hl=en>.

## Grants and Scholarships

- 2018 – current **Algebra group member**, Fondi di Ateneo, Università degli Studi di Milano - Bicocca, supported by the Group grants FA project ATE-2016-0045 and ATE-2018-0045 "Strutture Algebriche".

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- 2016 – current **CEMAT Lisbon Collaborator Membership**, *Fundação para a Ciência e a Tecnologia (FCT)*, supported by project grants UIDB/04621/2020 and UIDP/04621/2020 of CEMAT at FC-Universidade de Lisboa. Previously, I was supported by the team grants UID/MULTI/04621/2019, [PEst-OE/MAT/UI0143/2014](#) and [UID/Multi/04621/2013](#) (the last two of €44.712,00 and €249.804,00, respectively).
- 2017 – 2018 **CNPq grant - Bolsa de Produtividade em Pesquisa (Research and Productivity Grant)**, *Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)*, Principal Investigator, [PQ-2 grant 306614/2016-2](#) of R\$ 39,600.00 (Brazilian grants have no departmental overhead). **The grant was scheduled to run from 2017 to 2020, but I had to cancel it due to my relocation to Italy.**
- 2016 – 2018 **FAPESP grant - Jovens Pesquisadores em Centros Emergentes (Young Investigators in Emerging Institutions)**, *Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP)*, Principal Investigator, [JP grant 2016/12196-5](#) of R\$ 89,998.00 (Brazilian grants have no departmental overhead). The grant also provided an additional R\$ 119.805,84 to support new students. **The grant was scheduled to run from 2016 to 2020, but I had to cancel it due to my relocation to Italy.**
- 2018 **FAEPEX grant for the visit of my PhD student Miguel Alfredo Del Río Palma to the University of St. Andrews**, Supervisor in charge of the grant. Recipient of the grant: Miguel Alfredo Del Río Palma. Received R\$ 5,000 from Fundo de Apoio ao Ensino, à Pesquisa e Extensão (FAEPEX grant 3044/18, University of Campinas internal funding agency) to support Miguel's visit to the University of St. Andrews.
- 2018 **FAPESP, CAPES and FAEPEX grants for the organization of a 2018 ICM satellite event, International Congress of Mathematics, Satellite event "Geometric Group Theory in Campinas 2018"**. *Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP grant 2017/24002-3)*, *Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES grant 88881.155499/2017-01)* and *Fundo de Apoio ao Ensino, à Pesquisa e Extensão (FAEPEX grant 2297/18)*. Principal Organizer. Received R\$ 69,025.00 from FAPESP, R\$ 52,000.00 from CAPES and R\$ 3,700.00 from FAEPEX for the organization of the event.
- 2014 **FCT Ciência e Tecnologia Fellowship**, *Fundação para a Ciência e a Tecnologia (FCT)*, supported by Team grants [PEst-OE/MAT/UI0143/2014](#) and [PEst-OE/MAT/UI0143/2011](#) of €44.712,00 and €157.576,00, respectively.
- 2012 – 2014 **Sophie Germain Postdoctoral Fellowship**, *Fondation Mathématique Jacques Hadamard (FMJH)*, Group grant ANR-10-CAMP-0151-02.
- 2008 – 2009 **CRM Postdoctoral Grant**, *Centre de Recerca Matemàtica Barcelona (CRM)*.
- 2007 – 2008 **PRIN 2007 (ex-60%) member**, *Group Theory and Applications project titled "Questions about finite and infinite groups"* under the national scientific coordinator Federico Menegazzo and local coordinator Carlo Casolo.
- 2005 – 2006 **PRIN 2005 (ex-60%) member**, *Group Theory and Applications project titled "Finite and locally finite groups and their representations"* under the national scientific coordinators Andrea Lucchini and Fiorenza Morini and local coordinator Carlo Casolo.

## Publications

1. *Cryptanalysis of the Shpilrain-Ushakov Protocol in Thompson's Group* in *Journal of Cryptology* **21**, No. 3 (2008), 458–468 ([arXiv:math.GR/0607184](#))
2. *Finite Solvable Groups whose Quillen Complex is Cohen-Macaulay* in *Journal of Algebra* **322**, No. 4 (2009), 969–982 ([arXiv:math.GR/0606234](#))
3. *Mather Invariants for Groups of Piecewise-Linear Homeomorphisms* in *Trends in Mathematics, Combinatorial and Geometric Group Theory*, (2010), 251–260 ([arXiv:math.GR/0811.2370](#))
4. *Bounding the residual finiteness of free groups*, with M.Kassabov in *Proceedings of the American Mathematical Society*, **139**, No. 7 (2011), 2281–2286 ([arXiv:math.GR/0912.2368](#))
5. *Structure Theorems for Subgroups of Homeomorphisms Groups*, with C.Bleak, M.Kassabov in *International Journal of Algebra and Computation* **21**, No. 6 (2011), 1007–1036 ([arXiv:math.GR/0910.0218](#))
6. *The Simultaneous Conjugacy Problem in Groups of Piecewise Linear Functions*, with M.Kassabov in *Groups, Geometry and Dynamics* **6**, No. 2 (2012), 279–315 ([arXiv:math.GR/0607167](#))

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7. *Presentations for the Higher Dimensional Thompson's groups  $nV$* , with J. Hennig in *Pacific Journal of Mathematics* **257**, No. 1 (2012), 53–74 ([arXiv:math.GR/1105.3714](https://arxiv.org/abs/math/1105.3714))
8. *Centralizers in R. Thompson's group  $V_n$* , with C. Bleak, H. Bowman, A. Gordon, G. Graham, J. Hughes, J. Sapir in *Groups, Geometry and Dynamics* **7**, No. 4 (2013), 821–865 ([arXiv:math.GR/1107.0672](https://arxiv.org/abs/math/1107.0672))
9. *Deciding Conjugacy in Thompson's Group  $F$  in Linear Time*, with J. Belk, N. Hossain, R. McGrail, in *2013 15th Intern. Symp. on Symb. and Numeric Algorithms for Scient. Comput.*, 89 – 96 ([proceedings website](#))
10. *Implementation of a Solution to the Conjugacy Problem in Thompson's Group  $F$* , with J. Belk, N. Hossain, R. McGrail, in *ACM Communications in Computer Algebra* **47**, 3/4 (2014), 120–121. ([proceedings website](#))
11. *Conjugacy and Dynamics in Thompson's groups*, with J. Belk in *Geometriae Dedicata* **169**, No. 1 (2014), 239–261 ([arXiv:math.GR/0708.4250](https://arxiv.org/abs/math/0708.4250))
12. *The tree completions of an automaton group*, with P. V. Silva, *Proceedings of the Seventh Workshop on Non-Classical Models of Automata and Applications*, in the series *books@ocg.at* **318**, Austrian Computer Society 2015, ISBN 978-3-903035-07-2 ([conference website](#), [publisher website](#) and [proceedings volume](#))
13. *Röver's Simple Group is of Type  $F_\infty$* , with J. Belk in *Publicacions Matemàtiques* **60**, no 2 (2016), 501–524 ([arXiv:math.GR/1312.2282](https://arxiv.org/abs/math/1312.2282))
14. *Cohomological finiteness conditions and centralisers in generalisations of Thompson's group  $V$* , with C. Martínez-Pérez, B. Nucinkis, in *Forum Mathematicum* **28** (2016), no. 5, 909–921 ([arXiv:math.GR/1309.7858](https://arxiv.org/abs/math/1309.7858))
15. *The Conjugacy Problem in Extensions of Thompson's group  $F$* , with J. Burillo, E. Ventura in *Israel Journal of Mathematics*, **216** (2016), no. 1, 15–59 ([arXiv:math.GR/1307.6750](https://arxiv.org/abs/math/1307.6750))
16. *Embeddings into Thompson's group  $V$  and  $co\mathcal{CF}$  groups*, with C. Bleak, M. Neunhöffer in *Journal of the London Mathematical Society* (2) **94** (2016), no. 2, 583–597 ([arXiv:math.GR/1312.1855](https://arxiv.org/abs/math/1312.1855))
17. *On groups with slow intersection growth*, with M. Kassabov, in *Proceedings of the Edinburgh Mathematical Society* **60**(2) (2017), 387–390 ([arXiv:math.GR/1309.7903](https://arxiv.org/abs/math/1309.7903))
18. *Intersection growth in groups*, with I. Biringer, K. Bou-Rabee, M. Kassabov in *Transactions of the American Mathematical Society*, **369**(12), 2017, 8343–8367 ([arXiv:math.GR/1309.7993](https://arxiv.org/abs/math/1309.7993))
19. *Presentations of generalisations of Thompson's group  $V$* , with C. Martínez-Pérez, B. Nucinkis, in *Pacific Journal of Mathematics*, **296**(2), 2018, 371–403 ([arXiv:math.GR/1609.07058](https://arxiv.org/abs/math/1609.07058))
20. *On the Asynchronous Rational Group*, with J. Belk, J. Hyde in *Groups, Geometry and Dynamics*, **13**(4), 2019, 1271–1284 ([arXiv:math.GR/1711.01668](https://arxiv.org/abs/math/1711.01668))
21. *Integrals of groups*, with J. Araújo, P. J. Cameron in *Israel Journal of Mathematics*, **234**(1), 2019, 149–178 ([arXiv:math.GR/1803.10179](https://arxiv.org/abs/math/1803.10179))
22. *Embedding Right-Angled Artin Groups into Brin-Thompson Groups*, with J. Belk, C. Bleak, accepted by the *Mathematical Proceedings of the Cambridge Philosophical Society* ([arXiv:math.GR/1602.08635](https://arxiv.org/abs/math/1602.08635))
23. *Rational Embeddings of Hyperbolic Groups*, with J. Belk, C. Bleak submitted ([arXiv:math.GR/1711.08369](https://arxiv.org/abs/math/1711.08369))
24. *Extensions of automorphisms of self-similar groups*, with P. V. Silva submitted ([arXiv:math.GR/1806.09560](https://arxiv.org/abs/math/1806.09560))
25. *Conjugacy and Centralizers in Groups of Piecewise Projective Homeomorphisms*, with A. S. de Oliveira-Tosti submitted ([arXiv:math.GR/2002.11060](https://arxiv.org/abs/math/2002.11060))
26. *Embeddings of  $\mathbb{Q}$  into Some Finitely Presented Groups*, with J. Belk, J. Hyde submitted ([arXiv:math.GR/2005.02036](https://arxiv.org/abs/math/2005.02036))
27. *Hyperbolic Dynamics and Centralizers in the Brin-Thompson Group  $2V$* , with J. Belk, C. Martínez-Pérez, B. Nucinkis, in preparation
28. *Intersection growth in nilpotent groups*, with I. Biringer, K. Bou-Rabee, M. Kassabov in preparation
29. *Intersection growth in metabelian groups*, with I. Biringer, K. Bou-Rabee, M. Kassabov in progress
30. *Groups with polynomial Intersection growth*, with M. Kassabov, I. Snopce in progress
31. *Free subgroups of Thompson's group  $V$  and ping-pong*, with C. Bleak, E. Bieniecka in progress

## Invited Talks at Conferences and in Seminars

Expository talk on Geometric Group Theory (UNICAMP, 2017). Video available at the link below

<https://www.youtube.com/watch?v=YrorGiXcUMM> (in Portuguese)

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- 2003 – current **Conferences**, *Group Theory Days in Düsseldorf (2020)*, *Semigroups and Groups, Automata, Logics (Politecnico di Milano 2019)*, *XXI Brazilian Topology meeting (2018 ICM satellite)*, *Oberwolfach meeting (2018)*, *UNICAMP (2017)*, *Universidade de Lisboa (2003, 2014, 2016, 2017)*, *IMPA (2016)*, *24th Brazilian Algebra meeting in Diamantina (2016)*, *Università di Milano (2016, 2019)*, *Università di Firenze (2016)*, *Universidade de Porto (2016)*, *UNIFESP (2016)*, *Jordan and Lie Algebras IV in Bento Gonçalves (2015)*, *UFScar (2015)*, *University of St. Andrews (2014)*, *Universitat Polytechnica de Catalunya (2011, 2013)*, *CUNY Graduate Center (2010)*, *Cornell University (2010)*, *University of Pennsylvania (2009)*, *University of Newcastle Upon Tyne (2009)*, *University of Nebraska-Lincoln (2009)*, *CIRM Luminy (2007, 2008)*, *New York University (2008)*, *University of Ottawa (2007)*, *CRM Barcelona (2007)*, *University of New Hampshire (2006)*, *Texas A&M University (2005)*, *University of Nebraska-Lincoln (2005)*.
- 2002 – current **Seminars and Colloquiums**, *Technische Universität Graz (2019)*, *Heriot-Watt University (2018)*, *Universidade de São Paulo (2017)*, *Universidade Nacional de Brasília (2017)*, *Università di Firenze (2002, 2010, 2017, 2018, 2019)*, *Universidade de Lisboa (2013, 2016)*, *Universidade de Aveiro (2016)*, *UNICAMP (2015, 2017)*, *City University of New York (2014)*, *Universidade de Porto (2014, 2018)*, *University of St. Andrews (2013)*, *University of Oxford (2013)*, *Universität Bielefeld (2013)*, *Technische Universität Graz (2013)*, *Université Paris Sud 11 (2013)*, *Aix-Marseille Université (2013)*, *Royal Holloway (2013)*, *Universität Bielefeld (2012)*, *Université de Orleans (2012)*, *University of Virginia (2009, 2012)*, *Universidad de Zaragoza (2012)*, *CRM Barcelona (2007, 2010)*, *Université de Geneve (2009)*, *Universität Fribourg (2009)*, *University of Nebraska-Lincoln (2007)*, *Binghamton University (2005, 2007)*, *Cornell University (2005)*.

## Teaching

- 2019 – current **Instructor, Università di Milano - Bicocca**, *Topics in Geometric Group Theory (graduate course in English)*, *Geometric Group Theory (master level course)*, *Linear Algebra for Statistics, Algebra I (recitation sessions)*.
- 2019 – current **Instructor, Universidade Aberta**, *Group Theory (graduate course)*.
- 2015 – 2018 **Instructor, UNICAMP**, *MM 801 – Topics in Combinatorial and Geometric Group Theory (graduate course in English)*, *MM427 – Commutative Algebra (graduate course in English)*, *MA/MM719 – Advanced Linear Algebra (master level course)*, *MA/MM446 – Groups and Representations (master level course)*, *MA/MM445 – Rings and Fields (master level course)*, *MA327 – Linear Algebra (6 courses and course coordinator 3 times)*.
- 2009 – 2012 **Instructor, University of Virginia**, *MATH 8851 – Topics in Geometric Group Theory (graduate course)* *MATH 5652 – Introduction to Abstract Algebra (2 courses)*, *MATH 3354 – Survey of Algebra (2 courses)*, *MATH 3351 – Elementary Linear Algebra (2 courses)*, *APMA 3080 – Linear Algebra*, *MATH 1319 – Calculus I*.
- '06, '07, '08 **Nominated for the Mathematics Department Teaching Award, Cornell University**.
- '05, '07, '08 **Assistant to the REU Program, Cornell University**, *Research Experience for Undergraduates (REU) Program of the Mathematics Department with Professors M.Kassabov and C.Bleak*.
- 2007 **Instructor, Cornell University**, *Math 111 – Calculus I (2 courses)*.
- 2005 – 2007 **Teaching Assistant, Cornell University**, *Math 213 – Calculus III (3 courses)*, *Math 433 – Honors Linear Algebra*, *Math 106 – Calculus for Life and Social Sciences*.

## Advising (main advisor, unless otherwise specified)

- 2020 – current **Davide Perego, PhD in Mathematics, Università degli Studi di Milano - Bicocca, Italy**, Project tentative title: *Rationality of boundaries*.
- 2019 **Co-advisor for Miguel Alfredo del Río Palma, PhD in Mathematics, UNICAMP, Brazil**, Thesis title: *Graph Diagram Groups*. Main advisor. Now jointly advised with Desi Kochloukova because I moved to UNIMIB and Miguel is required to have a formal internal advisor.
- 2019 **Co-advisor for Bianca Boeira Dornelas, MSc in Mathematics, FAPESP grant 17/24373-1, UNICAMP, Brazil**, Thesis title: *Co-Context-Free Groups*. Main advisor. Now jointly advised with Desi Kochloukova because I moved to UNIMIB and Bianca is required to have a formal internal advisor.

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- 2019 **Co-advisor for Altair Santos de Oliveira Tosti, PhD in Mathematics**, UNICAMP, Brazil, Thesis title: *Decision Problems in Homeomorphism Groups*. Main advisor. Jointly advised with Desi Kochloukova because I moved to UNIMIB and Altair was required to have a formal internal advisor.
- 2019 **Co-advisor for Marcelo Sousa de Miranda Júnior, MSc in Mathematics**, UNICAMP, Brazil, Thesis title: *Automata generating free products of groups of order 2*. Main advisor. Jointly advised with Desi Kochloukova because I moved to UNIMIB and Marcelo was required to have a formal internal advisor.
- 2018 **Diana Milena Otalora Muñoz, MSc in Mathematics**, UNICAMP, Brazil, Thesis title: *Algoritmos e protocolos de criptografia baseada em grupos (Algorithms and protocols in group-based cryptography)*.
- 2018 **Co-Advisor for Michel Faleiros Martins, MSc in Mathematics**, UNICAMP, Brazil, Thesis title: *O décimo problema de Hilbert revisitado (Revisiting Hilbert's 10th problem)*.
- 2018 **Hugo Silva Santos Valadão, Iniciação científica (independent supervised study)**, UNICAMP, Brazil, Project Title: *Teoria Combinatorial e Decidibilidade em Grupos (Combinatorial Group Theory and Decidability in Groups)*.
- 2015 – 2017 **Bianca Boeira Dornelas, Iniciação científica (independent supervised study, two different subsequent projects, the second with FAPESP grant 16/11366-4)**, UNICAMP, Brazil, Project 2: *Introdução à teoria Combinatorial e Geométrica de Grupos (Introduction to Combinatorial and Geometric Group Theory)*. Project 1: *De grupos a corpos, uma introdução à Teoria de Galois e às suas aplicações (From groups to fields, an introduction to Galois Theory and its applications)*.
- 2016 **Lucas Garcia Gomes, Iniciação científica (independent supervised study)**, UNICAMP, Brazil, Project Title: *Teoria algébrica dos números (Algebraic Number Theory)*.
- 2014 **Co-Advisor for Simone Pieragnoli, MSc in Mathematics**, Università di Firenze, Italy, Thesis Title: *Il Paradosso di Banach-Tarski e i Gruppi Amenabili (The Banach-Tarski Paradox and Amenable Groups)*.

## Administrative Duties

- 2019 – current **Hiring Committee Member**, Civil service examination / Public Job competition for Teaching Assistants, Università di Milano - Bicocca. Committee members: Sonia Brivio, Francesco Matucci, Simone Secchi.
- 2009 – current **Jury Member, PhD defense**: Lorenzo Moreschini (Università di Milano - Bicocca 2019), Victor Do Nascimento Martins (UNICAMP 2017), Fatemeh Yeganeh Mokari (UNICAMP 2016), **MSc defense**: Luís Augusto de Mendonça (UNICAMP 2016), Miqueias de Melo Lobo (UNICAMP 2015), Borja de Balle Pigem (Polytechnic University of Catalonia 2009), **PhD candidacy**: Robson Ricardo de Araujo (UNICAMP 2016), Jordi Delgado Rodriguez (Polytechnic University of Catalonia 2013).
- 2007 – current **Journal Referee**, *Transactions of the AMS, Groups, Geometry and Dynamics, Proceedings of the LMS, Israel Journal of Mathematics, Math. Zeitschrift, Geometriae Dedicata, International Journal of Algebra and Computation, Journal of Group Theory, Contemporary Mathematics*.
- 2018 **PhD program board member**, UNICAMP, Brazil.
- 2017 – 2018 **Conference and Group Theory Session Co-organizer**, 25th Brazilian Algebra Meeting (École de Álgebra), 2018 UNICAMP, Brazil.
- 2017 – 2018 **Co-organizer of the “Combinatorial and Topological methods in Group Theory” session**, 2nd Brazil-Spain Mathematical meeting, 2018, Cadiz, Spain.
- 2017 – 2018 **Co-organizer for a 2018 ICM Satellite Conference**, ICM Satellite Conference “Geometric Group Theory in Campinas 2018”, UNICAMP, Brazil.
- 2016 – 2018 **Course Coordinator / Czar**, MA 327 Linear Algebra, UNICAMP, Brazil.
- 2012 – 2018 **Grant Referee**, CNPq (Brazil, 2017–current), FAPESP (Brazil, 2016–current), NSA (USA, 2012).
- 2017 **Algebra Seminar Organizer**, IMECC, UNICAMP, Brazil.
- 2015 – 2016 **Conference and Algebra Session Co-organizer**, II Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada, 2016, IMECC, UNICAMP, Brazil.

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- 2016 **Hiring Committee Member**, *Civil service examination / Public Job competition for an Assistant Professor Position in Algebra and Applications* (Concurso para Professor Doutor MS 3.1 em Álgebra e Aplicações). *Committee members: Antonio Paques, Francesco Matucci, Eduardo de Sequeira Esteves, Vitor de Oliveira Ferreira, Renato Vidal da Silva Martins, UNICAMP, Brazil.*
- 2011 – 2012 **Math Club organizer**, *University of Virginia, USA.*
- 2009 – 2012 **Putnam Exam training session organizer**, *University of Virginia, USA.*

## Professional Memberships

- 2015 – current **Istituto Nazionale di Alta Matematica – G.N.S.A.G.A..**
- 2016 – 2018 **American Mathematical Society.**
- 2005 – 2012 **American Mathematical Society.**
- 2008 **Mathematical Association of America.**
- 2006 **Istituto Nazionale di Alta Matematica – G.N.S.A.G.A..**

## Languages

1. Italian (native language)
2. English (fluent; European Level C2)
3. Portuguese (advanced intermediate; European Level B2)
4. Spanish (advanced intermediate; European Level B2)
5. French (intermediate; European Level B1)

## References

1. Martin Kassabov, Cornell University, [kassabov@math.cornell.edu](mailto:kassabov@math.cornell.edu)
2. Collin Bleak, University of St. Andrews, [cb211@st-andrews.ac.uk](mailto:cb211@st-andrews.ac.uk)
3. Gracinda Gomes, Universidade de Lisboa, [ggomes@cii.fc.ul.pt](mailto:ggomes@cii.fc.ul.pt)
4. Enric Ventura, Universitat Politècnica de Catalunya, [enric.ventura@upc.edu](mailto:enric.ventura@upc.edu)
5. Desi Kochloukova, Universidade Estadual de Campinas, [desi@ime.unicamp.br](mailto:desi@ime.unicamp.br)
6. Kenneth Brown, Cornell University, [kbrown@cornell.edu](mailto:kbrown@cornell.edu)
7. Peter Abramenko, University of Virginia, [pa8e@virginia.edu](mailto:pa8e@virginia.edu) (Teaching)