



# Cristina Acciarri

## Curriculum Vitae

Updated January 24, 2025

### Personal Information

Full Name Cristina Acciarri  
Date of Birth 7<sup>th</sup> August 1982  
Place of Birth San Benedetto del Tronto (AP), Italy  
Citizenship Italian  
Address Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia, via Giuseppe Campi, 213/b - 41125 Modena, Italy  
e-mails [cristina.acciarri@unimore.it](mailto:cristina.acciarri@unimore.it) (or [acciarri@unb.br](mailto:acciarri@unb.br))  
Website <https://acciarri.github.io> See also [my Institutional Webpage at UniMoRe](#)

### Academic appointments and scientific positions

11/2024–present **Associate Professor** in Algebra (ssd MATH-02/A) at the Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia, Italy.  
11/2021–10/2024 **'Ricercatore RTDb'** (tenure track-Assistant Prof.) at the Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia, Italy.  
01/2013–12/2024 **'Professor Adjunto'** (tenured - on leave without pay starting from 01/2022 until 12/2024) at the Department of Mathematics of the University of Brasilia, Brazil.  
11/2011–01/2013 **CNPq postdoctoral fellow**, Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) at the University of Brasilia, Brazil.  
2007– 2010 **PhD student** at the Università degli Studi di L'Aquila (Italy) with a 3-years predoctoral grant.

### Qualifications - Habilitations

25/1/2023-25/1/2034 **ASN Italian National Scientific Habilitation - Professore di I fascia** (Full Professor), MIUR, ssd MATH-02/A - Algebra, Italy.  
30/3/2018-30/3/2029 **ASN Italian National Scientific Habilitation - Professore di II fascia** (Associate Professor), MIUR, ssd MATH-02/A - Algebra, Italy.  
12/03/2014-lifetime **Profesor Contratado Doctor**, PCD: 2014-789, Mathematics, Spanish Ministry for Education, Spain.  
12/03/2014-lifetime **Profesor Ayudante Doctor**, PAD: 2014-790, Mathematics, Spanish Ministry for Education, Spain.

### Education

2007–2010 **PhD in Mathematics**, *University of L'Aquila, Department of Pure and Applied Mathematics*, L'Aquila, Italy

*Department of Physics, Informatics and Mathematics  
University of Modena and Reggio Emilia*

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doi:<http://dx.doi.org/10.1007/s00605-020-01479-4> SharedIt:[link](#)

23. C. Acciarri and A. Lucchini. *Graphs encoding the generating properties of a finite group*, **Mathematische Nachrichten**, 293(2020), 1644–1674.  
doi:<https://doi.org/10.1002/mana.201900144> arXiv: 1707.08348
22. C. Acciarri and D. Silveira. *Engel-like conditions in fixed points of automorphisms of profinite groups*, **Annali di Matematica Pura ed Applicata** 199(2020), 187–197.  
doi:<http://dx.doi.org/10.1007/s10231-019-00872-7> SharedIt: [link](#) arXiv:1902.08612
21. C. Acciarri and P. Shumyatsky. *On groups in which Engel sinks are cyclic*, **Journal of Algebra** 539(2019), 366–376.  
doi: <http://dx.doi.org/10.1016/j.jalgebra.2019.08.019> arXiv: 1905.07494
20. C. Acciarri, E. Khukhro and P. Shumyatsky. *Profinite groups with an automorphism whose fixed points are right Engel*, **Proceedings of the American Mathematical Society** 147(2019), 3691–3703.  
doi:<http://dx.doi.org/10.1090/proc/14519> arXiv:1808.04703
19. C. Acciarri and A. Lucchini. *The generating graph of infinite abelian groups*, **Bulletin of the Australian Mathematical Society** 100(2019), 68–75.  
doi:<http://dx.doi.org/10.1017/S0004972718001466> C.C.Share:[link](#) arXiv:1810.03508
18. C. Acciarri, D. Silveira and P. Shumyatsky. *Engel sinks of fixed points in finite groups*, **Journal of Pure and Applied Algebra** 223(2019), 4592–4601.  
doi:<http://dx.doi.org/10.1016/j.jpaa.2019.02.006> arXiv:1809.02733
17. C. Acciarri and D. Silveira. *Profinite groups and centralizers of coprime automorphisms whose elements are Engel*, **Journal of Group Theory** 21(2018), 485–509.  
doi:<http://dx.doi.org/10.1515/jgth-2018-0001> arXiv:1707.06889
16. C. Acciarri, D. Silveira and P. Shumyatsky. *On groups with automorphisms whose fixed points are Engel*, **Annali di Matematica Pura ed Applicata** 197(2018), 307–316.  
doi:<http://dx.doi.org/10.1007/s10231-017-0680-1> arXiv:1702.02899
15. C. Acciarri and P. Shumyatsky. *Coverings of commutators in profinite groups*, **Rendiconti del Seminario Matematico della Università di Padova** 137(2017), 237–257.  
doi:<http://dx.doi.org/10.4171/RSMUP/137-14> arXiv:1511.07843
14. C. Acciarri and P. Shumyatsky. *Commutators and commutator subgroups in profinite groups*, **Journal of Algebra** 473(2017), 166–182.  
doi:<http://dx.doi.org/10.1016/j.jalgebra.2016.11.001> arXiv:1408.5034
13. C. Acciarri and P. Shumyatsky. *Profinite groups and the fixed points of coprime automorphisms*, **Journal of Algebra** 452(2016), 188–195.  
doi:<http://dx.doi.org/10.1016/j.jalgebra.2016.01.010> arXiv:1703.00988
12. C. Acciarri and P. Shumyatsky. *On finite groups in which coprime commutators are covered by few cyclic subgroups*, **Journal of Algebra** 407(2014), 358–371.  
doi:<http://dx.doi.org/10.1016/j.jalgebra.2014.02.033> arXiv:1311.6148
11. C. Acciarri, P. Shumyatsky and A. Thillaisundaram. *Conciseness of coprime commutators in finite groups*, **Bulletin of the Australian Mathematical Society** 89(2014), 252–258.  
doi:<http://dx.doi.org/10.1017/S0004972713000361> arXiv:1303.1584
10. C. Acciarri and P. Shumyatsky. *Centralizers of coprime automorphisms of finite groups*, **Annali di Matematica Pura ed Applicata** 193(2014), 317–324.  
doi:<http://dx.doi.org/10.1007/s10231-012-0274-x> arXiv:1112.5880
9. C. Acciarri and P. Shumyatsky. *On words that are concise in residually finite groups*, **Journal of Pure and Applied Algebra** 218(2014), 130–134.

doi:<http://dx.doi.org/10.1016/j.jpaa.2013.04.018> arXiv:1212.0581

8. C. Acciarri and P. Shumyatsky. *On profinite groups in which commutators are covered by finitely many subgroups*, **Mathematische Zeitschrift** 274(2013), 239–248.  
doi:<http://dx.doi.org/10.1007/s00209-012-1067-z> SharedIt: [link](#) arXiv:1112.5879
7. C. Acciarri and P. Shumyatsky. *Double automorphisms of graded Lie algebras*, **Journal of Algebra** 387(2013), 1–10.  
doi:<http://dx.doi.org/10.1016/j.jalgebra.2012.12.023> arXiv:1207.1323
6. C. Acciarri and P. Shumyatsky. *On verbal subgroups in finite and profinite groups*, **Algebra and Discrete Mathematics** 14(2012), 1–13. <http://mi.mathnet.ru/eng/adm80> arXiv:1703.00979.
5. C. Acciarri, G.A. Fernández-Alcober and P. Shumyatsky. *A focal subgroup theorem for outer commutator words*, **Journal of Group Theory** 15 (2012), 397–405.  
doi:<http://dx.doi.org/10.1515/JGT.2011.113> arXiv:1108.2284.
4. C. Acciarri, A. De Souza Lima and P. Shumyatsky. *Derived subgroups of fixed points in profinite groups*, **Glasgow Mathematical Journal** 54 (2012), 97–105.  
doi:<http://dx.doi.org/10.1017/S0017089511000383> arXiv:1108.0655.
3. C. Acciarri and P. Shumyatsky. *Fixed points of coprime operator groups*, **Journal of Algebra** 342 (2011), 161–174.  
doi:<http://dx.doi.org/10.1016/j.jalgebra.2011.06.013> arXiv:1108.0698.
2. C. Acciarri and G.A. Fernández-Alcober. *Positive laws on generators in powerful pro- $p$  groups*, on Ischia Group Theory 2010: Proceedings of the Conference on Group Theory, 2011 (10 pages).  
[https://www.worldscientific.com/doi/epdf/10.1142/9789814350051\\_0001](https://www.worldscientific.com/doi/epdf/10.1142/9789814350051_0001) arXiv:1108.0547.
1. C. Acciarri and G.A. Fernández-Alcober. *Positive laws on large sets of generators: counterexamples for infinitely generated groups*, **Journal of the Australian Mathematical Society** 89 (2010), 289–296.  
doi:<http://dx.doi.org/10.1017/S1446788711001145> arXiv:1108.0692

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## Theses

14/05/2010 **PhD Thesis**

Title *Positive laws on large sets of generators and on word values in residually- $p$  groups.*  
(full text available at the following [researchgate link](#))

Supervisor Prof. Gustavo A. Fernández Alcober (University of the Basque Country, Bilbao, Spain).

26/09/2006 **Thesis for Laurea Specialistica**

Title *Sul derivato in certi  $p$ -gruppi.*

Supervisor Prof. Marialuisa J. de Resmini (University of Rome ‘La Sapienza’, Rome, Italy).

1/12/2004 **Essay for Laurea Triennale**

Title *I solidi platonici e i sottogruppi finiti di  $SO_3$ .*

Supervisor Prof. Valentina Barucci (University of Rome ‘La Sapienza’, Rome, Italy).

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## Organizing Activities

2024-2025 **‘Finite and Profinite Groups’ Session Co-organizer**, at RSME’s 7th Congress of Young Researchers, UPV/EHU, Bilbao, Spain, [https://jovenes2025.rsme.es/index\\_en.html](https://jovenes2025.rsme.es/index_en.html)

2023-2024 **Group Theory Session Co-organizer**, at Algebra Latin-American Colloquium 2024, Pontificia Universidad Católica de Chile, Santiago de Chile, Chile, <https://cla2024.mat.uc.cl/>

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- 2023-2024 **'Topics in Group Theory' Co-organizer**, a conference on the occasion of Andrea Lucchini 60th birthday, Dipartimento di Matematica 'Tullio Levi-Civita', University of Padova, Padova, Italy, <https://events.math.unipd.it/tgt/>
- 2022-2023 **Conference 'Finite and Residually Finite Groups' Co-organizer**, a conference in honor of 60th birthday of P. Shumyatsky, Bizkaia Aretoa UPV/EHU, Bilbao, Spain, <https://acciarri.cristina.wixsite.com/pavel60>
- 2020-2021 **Group Theory Session Co-organizer**, at 33<sup>rd</sup> Brazilian Mathematical Colloquium, IMPA, Rio de Janeiro, Brazil, [https://impa.br/en\\_US/eventos-do-impa/2021-2/33cbm/](https://impa.br/en_US/eventos-do-impa/2021-2/33cbm/)
- 2019-2020 **Conference 'XII Summer Workshop in Mathematics' Co-organizer**, Brasilia, Brazil, [https://www.mat.unb.br/verao2020/workshop\\_en.html](https://www.mat.unb.br/verao2020/workshop_en.html)
- 2019-2020 **'XLIX Summer School in Mathematics' Co-organizer**, Brasilia, Brazil, [https://www.mat.unb.br/verao2020/verao/verao\\_en.html](https://www.mat.unb.br/verao2020/verao/verao_en.html)
- 2019 **Group Theory Session Co-organizer**, at XXIII Algebra Latin-American Colloquium, Colegio Nacional, Mexico City, Mexico, <https://sites.google.com/view/grouptheoryatcla2019/home>
- 2017, 2019 **Algebra Seminar Organizer**, Departamento de Matemática, Universidade de Brasília, Brazil
- 2011 **Collaboration in the organisation, conference EMS-RSME Joint Mathematical Weekend**, Bilbao, Spain
- 2011 **Collaboration in the organisation, conference New Trends in Group Theory 2011**, CIEM, Castro-Urdiales, Spain

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## Grants and Scholarships

- 2021–2022 **'Bolsa de Produtividade em Pesquisa'** (Research and Productivity Grant), Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Principal Investigator, PQ-2 grant n.309989/2020-5 of R\$ 39.600 (Brazilian grants have no departmental overhead).- interrupted in 2022 for leaving license
- 2018–2021 **'Bolsa de Produtividade em Pesquisa'** (Research and Productivity Grant), Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Principal Investigator, PQ-2 grant n.304167/2017-7 of R\$ 39.600 (Brazilian grants have no departmental overhead).
- 03/2017-01/2018 **'Bolsa de Pós-Doutorado Senior no exterior'**, Visiting Professor grant (sabbatical year) at Università degli Studi di Padova (Italy), CAPES-Brazil personal grant of € 26.510
- 2015–2018 **'Bolsa de Produtividade em Pesquisa'** (Research and Productivity Grant), Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Principal Investigator, PQ-2 grant n. 303651/2014-8 of R\$ 39.600 (Brazilian grants have no departmental overhead).
- 2014 **'Incentivo à Produção Científica'** (Research Grant), Fundação de Estudos em Ciências Matemáticas (FEMAT), Principal Investigator, grant of R\$ 5.000 (Brazilian grants have no departmental overhead).
- 2011–2013 **CNPq Junior Postdoctoral Grant**, Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Principal Investigator, grant n. 500825/2011-4 of R\$ 53.600 at the University of Brasilia, Brazil.

- 06/2011 Grant awarded by the 'Mathematisches Forschungsinstitut Oberwolfach' in order to attend the Oberwolfach Seminar: Algebraic Properties of Profinite Groups organised by MFO.
- 08/2007 Grant awarded by the 'Scuola Matematica Interuniversitaria' to attend the Summer Course in Algebra organized by SMI.
- 11/2006– 11/2009 Predoctoral grant, PhD student at the Università degli Studi di L'Aquila (L'Aquila, Italy), three years grant.

### Coordination of funded research projects

- Project title **Grafos, coberturas, endomorfismos virtuais e propriedades residuais de grupos**, (*Demanda Espontânea 03/2018- N. 22474.93.35580.0205/2018*)
- Period from 1/08/2019 to 22/02/2022
- Institutions University of Brasilia
- Scientist in charge C. Acciarri (University of Brasilia, Brazil - 5 members - R\$70.000)
- Funder FAPDF- Fundação de Apoio à Pesquisa do Distrito Federal, Brazil

### Membership of funded research projects

- Project title **Grupos Finitos e Profinitos**, (*Edital MCTI/CNPq nº 16/2024- Project N.401532/2024-0 - CNPq*)
- Period from 1/1/2025 to 31/12/2026
- Institutions University of Brasilia
- Scientist in charge P. Shumyatsky (University of Brasilia, Brazil - 15 members)
- Funder CNPq- Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil
- Project title **Grupos Profinitos**, (*Edital 10/2023 Universal- Project N.401998/2023-1 - CNPq*)
- Period from 1/12/2023 to 30/11/2026
- Institutions University of Brasilia
- Scientist in charge P. Zalesskii (University of Brasilia, Brazil - 10 members)
- Funder CNPq- Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil
- Project title **Grupos e automorfismos**, (*Demanda Espontânea N. 22565.93.27419.0205/2018*)
- Period from 1/08/2019 to 31/07/2021
- Institutions University of Brasilia
- Scientist in charge P. Shumyatsky (University of Brasilia, Brazil)
- Funder FAPDF- Fundação de Apoio à Pesquisa do Distrito Federal, Brazil
- Project title **Grupos Profinitos**, (*Demanda Espontânea N. 15816.78.28134.2504/2017*)
- Period from 1/11/2017 to 31/10/2019
- Institutions University of Brasilia
- Scientist in charge P. Zalesskii (University of Brasilia, Brazil)
- Funder FAPDF- Fundação de Apoio à Pesquisa do Distrito Federal, Brazil
- Project title **Estruturas Algébricas**, (*Demanda Espontânea N. 9610.56.28932.0604/2016*)
- Period from 1/12/2016 to 30/11/2019
- Institutions University of Brasilia



- Scientist in charge N. Romeu Rocco (University of Brasilia, Brazil)  
 Funder FAPDF- Fundação de Apoio à Pesquisa do Distrito Federal, Brazil
- Project title **Grupos Finitos e Profinitos**, (*Demanda Espontânea N. 0193.000842/2015*)  
 Period from 1/11/2015 to 31/10/2017  
 Institutions University of Brasilia
- Scientist in charge P. Shumyatsky (University of Brasilia, Brazil)  
 Funder FAPDF- Fundação de Apoio à Pesquisa do Distrito Federal, Brazil
- Project title **Combinatorial methods in the theory of profinite groups**, (*Programa Geral de Cooperação Internacional CAPES/project 051/14*)  
 Period from 1/03/2015 to 31/12/2016  
 Institutions University of Milan - Bicocca, University of Brasilia
- Scientists in charge T. Weigel (University of Milan -Bicocca, Italy), P. Zaleskii (University of Brasilia, Brazil)  
 Funder Spanish Ministry of Economy and Competitiveness
- Project title **Grupos, representaciones y geometría**, (*MTM2014-53810-C2-2-P*)  
 Period from 1/01/2015 to 31/12/2017  
 Institutions Autonomous University of Madrid, University of the Basque Country
- Scientists in charge A. Jaikin-Zapirain (Autonomous University of Madrid, Spain), G.A. Fernández-Alcober (University of the Basque Country, Spain)  
 Funder Spanish Ministry of Economy and Competitiveness
- Project title **Grupos Profinitos e Residualmente Finitos**, *CAPES/DGU/projeto 304/13*  
 Period from 01/04/2013 to 31/12/2016  
 Institutions Autonomous University of Madrid, University of the Basque Country, University of Brasilia
- Scientist in charge P. Shumyatsky (University of Brasilia, Brazil), G.A. Fernández-Alcober (University of the Basque Country, Spain), A. Jaikin-Zapirain (Autonomous University of Madrid, Spain)  
 Funder CAPES- Brazil, Spanish Ministry of Science and Innovation
- Project title **Grupos, caracteres y combinatoria algebraica**, (*MTM 2011-28229-C02-02*)  
 Period from 1/4/2012 to 31/12/2015  
 Institutions Autonomous University of Madrid, University of the Basque Country
- Scientists in charge A. Jaikin-Zapirain (Autonomous University of Madrid, Spain), G.A. Fernández-Alcober (University of the Basque Country, Spain)  
 Funder Spanish Ministry of Science and Innovation
- Project title **Pro- $p$  gruppi e algebre di Lie, gruppi finiti, rappresentazioni**, (*PRIN Project*)  
 Period from 22/3/2010 to 22/9/2012  
 Institutions University of L'Aquila, University of Rome 'La Sapienza', University of Trento
- Scientist in charge C.M. Scoppola (University of L'Aquila, Italy)  
 Funder Italian Ministry of Education, University and Research

Project title **Grupos, caracteres y combinatoria algebraica**, (MTM 2008 - 06680 - C02)  
 Period from 1/1/2009 to 31/12/2011  
 Institutions Autonomous University of Madrid, University of the Basque Country  
 Scientists in charge A. Jaikin-Zapirain (Autonomous University of Madrid, Spain), G.A. Fernández-Alcober (University of the Basque Country, Spain)  
 Funder Spanish Ministry of Science and Innovation

Project title **Gruppi, Algebre di Lie, Crittografia**, (PRIN Project)  
 Period from 10/2/2007 to 9/2/2009  
 Institutions University of L'Aquila, University of Rome 'La Sapienza', University of Trento  
 Scientist in charge C.M. Scoppola (University of L'Aquila, Italy)  
 Funder Italian Ministry of Education, University and Research

### Invited talks at International Conferences

- TBA, INdAM Workshop "Old and New Trends in Mathematical Collaboration between Brazil and Italy, Roma (Italy), June 23<sup>rd</sup>- 27<sup>th</sup> 2025
- *Rank type conditions on commutators in finite groups*, Topics in Group Theory - on the occasion of A. Lucchini 60th(+) birthday, Padova (Italy), September 10<sup>th</sup>- 13<sup>th</sup> 2024  
<https://events.math.unipd.it/tgt/>
- *On groups with automorphisms whose fixed points satisfy Engel-like conditions*, 10 Years of Algebra at Lincoln, University of Lincoln and online, June 12<sup>th</sup>- 14<sup>th</sup> 2024  
<https://ysantosrego.github.io/files/EK-Algebra10/>
- *On conciseness of words in residually finite groups*, the 2023 Ural Workshop on Group Theory and Combinatorics, Ural Federal University, Yekaterinburg, Russia (online), August 21<sup>st</sup>-27<sup>th</sup> 2023  
<http://2023uwgtc.imm.uran.ru>
- *Sulle parole concise nei gruppi residualmente finiti*, Teoria dei gruppi a Paestum, Paestum (SA), Italy, July 6<sup>th</sup>-7<sup>th</sup> 2023 <https://sites.google.com/unisa.it/tdgpaestum>
- *Coprime automorphisms of finite groups*, Finite and Residually Finite Groups -a conference in honor of 60th birthday of P. Shumyatsky, Bilbao, Spain, June 20<sup>th</sup>-23<sup>rd</sup> 2023 <https://acciarricristina.wixsite.com/pavel60>
- *Coprime automorphisms of finite groups*, Advances in Group Theory and Applications 2023, Lecce, June 5<sup>th</sup>-9<sup>th</sup> 2023 <https://www.advgrouptheory.com/agta2023/index.html>
- *On profinite groups with restricted centralizers of  $\pi$ -elements*, The AI@Bicocca Flash Workshop - Two days of Algebra in Bicocca, University of Milano-Bicocca, February 27<sup>th</sup>-28<sup>th</sup> 2023  
<https://sites.google.com/unimib.it/algebra-in-bicocca-english/algebra-seminar>
- *Coprime automorphisms of finite groups*, Ischia Group Theory 2022, Ischia (Italy), June 20<sup>th</sup>- 25<sup>th</sup> 2022.
- *A stronger version of Neumann's BFC-theorem*, Groups in Galway 2021, (online at ZOOM), December 2<sup>nd</sup> 2021 <https://torossmann.github.io/gig21/>
- *A stronger version of Neumann's BFC-theorem*, GOTHIC -Ischia Online Group Theory Conference, (online at ZOOM), March 4<sup>th</sup> 2021  
<https://sites.google.com/unisa.it/e-igt2020/winter-semester-2021>
- *Graphs encoding the generating properties of a finite group*, Ischia Group Theory 2018, Ischia (Italy), March 19<sup>th</sup>- 23<sup>rd</sup> 2018.
- *Groups with automorphisms whose fixed points satisfy Engel-like conditions.*, First Joint UMI-SIMAI-PTM



meeting, Wroclaw (Poland), September 17<sup>th</sup>– 20<sup>th</sup> 2018.

○ *Graphs encoding the generating properties of a finite group*, II Joint Meeting Spain-Brazil in Mathematics RSME-SEMA-SBM-SBMAC, Cádiz (Spain), December 11<sup>th</sup>– 14<sup>th</sup> 2018.

○ *Coverings of commutators in profinite groups*, Ischia Group Theory 2016, Ischia (Italy), March 29<sup>rd</sup>– April 2<sup>nd</sup> 2016.

○ *Profinite groups and the fixed points of coprime automorphisms.*, II Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada, Campinas, December 5<sup>th</sup>–7<sup>th</sup> 2016.

○ *Coverings in finite and profinite groups*, II Workshop in Groups and Algebras, Belo Horizonte (Brazil), July 6<sup>th</sup>– 8<sup>th</sup> 2015.

○ *On words that are concise in residually finite groups*, Ischia Group Theory 2014, Ischia (Italy), April 1<sup>st</sup>–5<sup>th</sup> 2014.

○ *Positive laws on generators in  $p$ -adic analytic pro- $p$  groups*, 29<sup>o</sup> Colóquio Brasileiro de Matemática- IMPA, Rio de Janeiro (Brazil), July 21<sup>st</sup>– August 2<sup>nd</sup> 2013.

○ *On verbal subgroups in finite and profinite groups*, XIX Coloquio Latinoamericano de Algebra, Pucón (Chile), December 11<sup>th</sup>–14<sup>th</sup> 2012.

○ *Fixed points of coprime automorphisms of finite groups*, XXII Brazilian Algebra Meeting, Salvador (Brazil), July 15<sup>th</sup>–20<sup>th</sup> 2012.

### Other talks (and posters) at Meeting, Seminars, etc

○ *Varieties of groups and the problem on conciseness of words*- **invited**, Algebra Seminar, University of Trento, June 25<sup>th</sup> 2024

○ *On conciseness of words in residually finite groups*- **invited**, Algebra and Geometry Seminar, University of L'Aquila, October 26<sup>th</sup> 2023

○ *On profinite groups with restricted centralizers of  $\pi$ -elements* - **invited**, Algebra Seminar, University of Lincoln, Lincoln (online at ZOOM), March 29<sup>th</sup> 2023

<https://algebra-lincoln.org/2023/03/29/algebra-seminar-talk-by-cristina-acciarri/>

○ *On profinite groups with restricted centralizers of  $\pi$ -elements* - **invited**, Ural Seminar on Group Theory and Combinatorics, Ural Federal University, Yekaterinburg (online at BBB), March 14<sup>th</sup> 2023

<http://uwgtc.imm.uran.ru>

○ *On profinite groups with restricted centralizers of  $\pi$ -elements*, Algebra Seminar, University of Padova, May 12<sup>th</sup> 2022

○ *Una versione più forte del BFC-teorema di Neumann*, welcoming seminar for researchers recently hired, University of Modena and Reggio Emilia, April 7<sup>th</sup> 2022.

○ *Uma versão mais forte do BFC-Teorema de Neumann* - **invited**, Semana Temática de Álgebra do Programa de Verão PGMAT-UFBA - 2022, Federal University of Bahia, February 3<sup>rd</sup> 2022

○ *A stronger version of Neumann's BFC-theorem* - **invited**, Algebra, Combinatorics and Number Theory Seminar, University of Porto, October 26<sup>th</sup> 2021

○ *A stronger version of Neumann's BFC-theorem* - **invited**, Seminário de Álgebra IMECC-UNICAMP, University of Campinas, October 26<sup>th</sup> 2021

○ *On graphs encoding the generating properties of groups*, XI Summer Workshop in Mathematics, Brasília, February 18<sup>th</sup>–22<sup>nd</sup> 2019.

○ *Graphs encoding the generating properties of a finite group*, International Congress of Mathematicians 2018, Rio de Janeiro, August 1<sup>st</sup>–9<sup>th</sup> 2018.

- *On groups with automorphisms whose fixed points are Engel*, Advances in Group Theory and Applications 2017, Lecce, September 5<sup>th</sup>–8<sup>th</sup> 2017.
- *Graphs encoding the generating properties of a finite group*, Groups St Andrews 2017, Birmingham, August 5<sup>th</sup>–13<sup>th</sup> 2017.
- *Profinite groups and the fixed points of coprime automorphisms*, Groups, Rings, and their Automorphisms – Conference in Honor of Evgeny Khukhro, Lincoln, August 31<sup>st</sup>– September 2<sup>nd</sup> 2016.
- *Coverings of commutators in profinite groups*, First joint meeting Brazil-Spain in Mathematics, Fortaleza, December 5<sup>th</sup>–10<sup>th</sup> 2015.
- *Coverings in finite and profinite groups*, Lie and Jordan Algebras, Their Representations and Applications VI - conference in honor of Efim Zelmanov, Bento Gonçalves, December 13<sup>th</sup>–19<sup>th</sup> 2015.
- *On concise words in residually finite groups*, XX Coloquio Latinoamericano de Algebra, Lima, December 8<sup>th</sup>–12<sup>th</sup> 2014.
- *Fixed points of coprime automorphisms of finite groups*, Ischia Group Theory 2012, Ischia, March 26<sup>th</sup>–29<sup>th</sup> 2012.
- *Focal subgroups and outer commutator words*, Seminario de Algebra, Universidade de Brasília, Brasília, 2<sup>nd</sup> December 2011.
- *Focal subgroups and outer commutator words*, EMS-RSME Joint Mathematical Weekend, Bilbao, October 7<sup>th</sup>–9<sup>th</sup> 2011.
- *Focal subgroups and words*, seminar of the Departamento de Matemáticas, Universidad de Murcia, 2<sup>nd</sup> June 2011.
- *Focal subgroups and words*, New Trends in Group Theory 2011, CIEM, Castro-Urdiales, May 17<sup>th</sup>–20<sup>th</sup> 2011.
- *Positive laws on large sets of generators in residually- $p$  groups*, Seminaire Georges Reeb – Algèbre, Algèbres de Lie et Géométrie Différentielle, LMIA Université de Haute Alsace, Mulhouse, 8<sup>th</sup> March 2011. ○ *Positive laws on large sets of generators*, Algebra Seminar, UnB, Brasília 19<sup>th</sup> November 2010.
- *Positive laws on large sets of generators in residually- $p$  groups: finitely generated vs infinitely generated*, Groups and Their Actions, Bedlewo (Poznan), August 23<sup>rd</sup>–28<sup>th</sup> 2010.
- *Leyes positivas en conjuntos ‘grandes’ de generadores y en los valores de una palabra en grupos residualmente- $p$* , VIII Encuentro en Teoría de Grupos, University of the Basque Country, Bilbao, June 17<sup>th</sup>–19<sup>th</sup> 2010.
- *Positive laws on large sets of generators*, Groups St Andrews 2009 in Bath, University of Bath, Bath, August 1<sup>st</sup>–15<sup>th</sup> 2009.
- *Leyes positivas en grupos*, 25 años de álgebra en la UPV/EHU, University of the Basque Country, Bilbao, May 28<sup>th</sup>–29<sup>th</sup> 2009.
- *Positive laws on large sets of generators in residually- $p$  groups: finitely generated vs infinitely generated*, The Postgraduate GT Conference 2009, University of Manchester, Manchester, April 15<sup>th</sup>–17<sup>th</sup> 2009.
- *Positive laws on large sets of generators: some questions*, Infinite Group Theory, University of Edinburgh, Edinburgh, December 10<sup>th</sup>–12<sup>th</sup> 2008.
- POSTER -*Focal subgroups and outer commutator words*, EMS-RSME Joint Mathematical Weekend, Bilbao, October 7<sup>th</sup>–9<sup>th</sup> 2011.
- POSTER- *Focal subgroups and words*, Encuentro en Teoría de grupos y sus aplicaciones - on the occasion of the 60-th birthday of Prof. Javier Otal, Zaragoza, June 10<sup>th</sup>–11<sup>th</sup> 2011.
- POSTER -*Positive laws on large sets of generators and on word values*, Ischia Group Theory 2010, Ischia

(Naples), April 14<sup>th</sup>–17<sup>th</sup> 2010.

## Other conferences, workshops and courses attended

- *Ischia Group Theory 2024*, Ischia (Naples), April 8<sup>th</sup>–13<sup>th</sup> 2024
- *Topics in Algebra, a conference in honor of A. Caranti and C.M. Scoppola*, Trento, September 1<sup>st</sup>–2<sup>nd</sup> 2022
- *16th Jerusalem Midrasha Mathematicae, on Words and Growth*, Institute for Advanced Studies at the Hebrew University, Jerusalem, June 10<sup>th</sup>–15<sup>th</sup> 2012
- *Oberwolfach Seminar: Algebraic Properties of Profinite Groups*, Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach-Walke, June 12<sup>th</sup>–18<sup>th</sup> 2011.
- *Series of mini-courses at the conference GAGTA 5 - Geometric and Asymptotic Group Theory with Applications*, Universitat Politècnica de Catalunya, Manresa, July 5<sup>th</sup>–8<sup>th</sup> 2011.
- *Encuentro en teoría de grupos y sus aplicaciones* - on the occasion of the 60-th birthday of Prof. Javier Otal, University of Zaragoza, Zaragoza, June 10<sup>th</sup>–11<sup>th</sup> 2011.
- *Workshop INdAM* INdAM - University of Rome “La Sapienza”, Rome, May 24<sup>th</sup>–28<sup>th</sup> 2010.
- *Ischia Group Theory 2010*, Ischia (Naples), April 14<sup>th</sup>–17<sup>th</sup> 2010.
- *Group Theory* - a joint meeting of the Edinburgh Mathematical Society and the London Mathematical Society, University of Edinburgh, Edinburgh, December 12<sup>th</sup>–13<sup>th</sup> 2008.
- *Algebraic groups and related topics* LMS/EPSRC short instructional course, University of Birmingham, Birmingham, September 15<sup>th</sup>–19<sup>th</sup> 2008.
- *Interactions towards secure communication*, CIEM, Castro-Urdiales, May 15<sup>th</sup>–16<sup>th</sup> 2008.
- *Workshop ‘The Algebraic Structure of Profinite Groups’*, Royal Holloway- University of London, London, April 7<sup>th</sup>–8<sup>th</sup> 2008.
- *Teoria dei gruppi e applicazioni*, University of Florence, Florence, December 12<sup>th</sup>–14<sup>th</sup> 2007.
- *CIRM-Clay-INdAM/GNSAGA conference ‘Profinite and Asymptotic Group Theory*, Levico Terme (Trento), September 16<sup>th</sup> – 21<sup>st</sup> 2007.
- *1<sup>st</sup> GNAMPA Summer School De Ludo Aleae* Rome, September 10<sup>th</sup>–14<sup>th</sup> 2007.
- *Summer Course in Mathematics* - Course in Algebra, SMI, Cortona, August 13<sup>th</sup>–31<sup>st</sup> 2007.

## Teaching

<b>Instructor</b>	at Department of Physics, Informatics and Mathematics, <b>Università degli Studi di Modena e Reggio Emilia</b> (Italy)
academic year 24-25	<i>Algebra superiore</i> (graduate course MN1-306, 42 hours) <i>Fondamenti di algebra e geometria</i> (graduate course M263-065, 21 hours) <i>Algebra A</i> (undergraduate course MN1-1030, 72 hours)
academic year 23-24	<i>Strutture algebriche</i> (graduate course MN1-512, 28 hours) <i>Algebra A</i> (undergraduate course MN1-1030, 72 hours)
academic year 22-23	<i>Algebra superiore</i> (graduate course MN1-306, 36 hours) <i>Matematica</i> (undergraduate course SB-25/B-47, 56 hours)
academic year 21-22	<i>Strutture algebriche</i> (graduate course MN1-512, 36 hours) <i>Geometria e Algebra Lineare</i> (undergraduate course MECC-2, 20 hours)

**Instructor** at Department of Mathematics, **EHU/UPV Universidad del País Vasco**, Bilbao (Spain)

academic year 2023 *On Lie ring methods in group theory* (PhD course in English, 10 hours)

**Instructor** at Department of Mathematics, **Università degli Studi di Padova** (Italy)

academic year 2017 *On Lie ring methods in group theory* (PhD course in English, 16 hours)

**Instructor** at Department of Mathematics, **Universidade de Brasília** (Brazil)

1st semester 2021 *Introduction to Linear Algebra* (undergraduate course 113093, 60 hours)  
*Algebra 1* (undergraduate course 113107 A, 60 hours)

2nd semester 2020 *Introduction to Linear Algebra* (undergraduate course 113093, 60 hours)  
*Algebra 1* (undergraduate course 113107 A, 60 hours)

1st semester 2020 *Algebra 1* (undergraduate course 113107 A, 60 hours)

2nd semester 2019 *Algebra 1* (undergraduate course 113107 B, 60 hours)

1st semester 2019 *Introduction to Linear Algebra* (undergraduate course 113093, 60 hours)  
*Algebra 1* (undergraduate course 113107 B, 60 hours)

2nd semester 2018 *Lie Methods in Group Theory* (PhD course in English, 60 hours)  
*Algebra 1* (undergraduate course 113107, 60 hours)

1st semester 2018 *Group Theory 2* (Master course 313386, 60 hours)  
*Algebra 1* (undergraduate course 113107 B, 60 hours)

academic year 2017 sabbatical year spent at UNIPD - Padova, Italy

2nd semester 2016 *Algebra 1* (undergraduate course 113107 B&C, 60 hours each) – 2 courses

1st semester 2016 *Introduction to Linear Algebra* (undergraduate course 113093, 75 hours)  
*Group Theory 2* (Master course 313386, 60 hours)

2nd semester 2015 *Introduction to Linear Algebra* (undergraduate course 113093, 75 hours)

1st semester 2015 *Algebra 1* (undergraduate course 113107 B, 60 hours)  
*Group Theory 2* (Master course 313386, 60 hours)

2nd semester 2014 *Introduction to Linear Algebra* (undergraduate course 113093, 75 hours)  
*Algebra 1* (undergraduate course 113107 B, 60 hours)

1st semester 2014 *Introduction to algebra* (Master course, 60 hours)  
*Introduction to Linear Algebra* (undergraduate course 113093, 75 hours)

2nd semester 2013 *Introduction to Linear Algebra* (undergraduate course 113093, 75 hours)  
*Calculus III* (undergraduate course 113051, 75 hours)

1st semester 2013 *Algebra 1* (undergraduate course 113107 B, 60 hours)  
*Calculus III* (undergraduate course 113051, 75 hours)

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## Students advising (main advisor, unless otherwise specified)

*Department of Physics, Informatics and Mathematics*  
*University of Modena and Reggio Emilia*  
 ✉ [cristina.acciarri@unimore.it](mailto:cristina.acciarri@unimore.it)

- 2024 **Roberto Roversi, BSc in Mathematics**, University of Modena and Reggio Emilia, *Commuting Probability in Finite Groups*.
- 2020 **João Pedro Papalardo Azevedo, MSc in Mathematics**, University of Brasilia, Thesis title: *Finite Groups of Bounded Rank Admitting an Almost Regular Automorphism: a Lie-Theoretic Approach*, with CAPES grant.
- Mateus Figueiredo de Souza, MSc in Mathematics**, University of Brasilia, Thesis title: *Centralizadores em Grupos de Torção Residualmente Finitos. Um estudo via Métodos de Lie.*, with CAPES grant.
- 2018 **Co-advisor for Danilo S. da Silveira, PhD in Mathematics**, University of Brasilia. Thesis title: *Grupos com automorfismos cujos pontos fixos são Engel*, with CAPES grant. Main advisor: P. Shumyatsky.
- 2017 **Sara Raissa Silva Rodrigues, MSc in Mathematics**, University of Brasilia. Thesis title: *Sobre grupos finitos e profinitos quase-Engel*, with CAPES grant.
- 2016 **Jéssyca Cristine Lima de Souza, MSc in Mathematics**, University of Brasilia. Thesis title: *Involuções e seu centralizadores em grupos finitos*, with CNPq grant.
- João Pedro Papalardo Azevedo**, "Iniciação científica em álgebra", undergraduate independent supervised study with FAPDF grant, University of Brasilia.
- 2015 **Rebeca Chuffi Saccochi, MSc in Mathematics**, University of Brasilia. Thesis title: *Grupos central-por-finito: coberturas de grupos e un problema de P. Erdos*, with CNPq grant
- 2014 **Leandro Araújo Castro, MSc in Mathematics**, University of Brasilia. Thesis title: *Generalizando um teorema de P. Hall sobre grupos finitos-por-nilpotentes*, with CNPq grant.
- José Vitor Paiva Miranda de Siqueira**, "Iniciação científica em álgebra", undergraduate independent supervised study with UnB grant, University of Brasilia.

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## Editorial and review activities

### 1. Editorial activities

- 2021-pres Editorial Board Member for Matemática Contemporânea (a SBM journal) <https://mc.sbm.org.br/a-revista/>

### 2. International peer reviewed journal activities for the following journals:

- 2012- pres Bulletin of the Brazilian Mathematical Society, Journal of Algebra, Journal of Algebra and its Applications, Journal of Pure and Applied Algebra, Communications in Algebra, Glasgow Mathematical Journal, Communications in Mathematics, Journal of Group Theory, Archiv der Mathematik, Bollettino della Unione Matematica Italiana, International Journal of Group Theory, Rendiconti del Seminario Matematico della Università di Padova, Filomat (Univerzitet u Nishu)

### 3. Grant review activities

- 2015- pres CNPq -Brazil, CAPES - Brazil, FAPDF - Brazil

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## Research visits

Institution **Universidade de Brasília (UnB)**, Brasilia, Brazil

Periods from 12<sup>th</sup> July to 4<sup>th</sup> August 2024 (3 weeks).

Institution **Università degli Studi di Padova (UniPD)**, Padova, Italy

Periods from 8<sup>th</sup> to 14<sup>th</sup> November 2023 (1 week).  
from 11<sup>th</sup> to 23<sup>rd</sup> May 2022 (2 weeks).  
from 21<sup>st</sup> September to 5<sup>th</sup> October, from 15<sup>th</sup> to 20<sup>th</sup> December 2019 (3 weeks).  
from March 2017 to January 2018 (11 months, sabbatical year).  
from 10<sup>th</sup> January to 22<sup>nd</sup> January 2016 (2 weeks).

Institution **Universidad del País Vasco (EHU/UPV)**, Bilbao, Spain

Periods from 2<sup>nd</sup> to 23<sup>rd</sup> May 2023 (3 weeks).  
from 30<sup>th</sup> September to 22<sup>nd</sup> October 2017 (3 weeks).  
from 10<sup>th</sup> January to 4<sup>th</sup> April 2010 (12 weeks).  
from 27<sup>th</sup> September to 21<sup>st</sup> December 2009 (12 weeks).  
from 7<sup>th</sup> March to 6<sup>th</sup> July 2009 (17 weeks).  
from 2<sup>nd</sup> September to 21<sup>st</sup> December 2008 (16 weeks).  
from 6<sup>th</sup> March to 30<sup>th</sup> June 2008 (17 weeks).

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## Administratives Duties

2022 - pres **Member of the Scientific Board for the PhD Program in Mathematics, University of Parma, University of Ferrara and University of Modena and Reggio Emilia**

2013 - 2023 **Postgraduate Mathematical Program faculty board member, Departamento de Matemática, Universidade de Brasília, Brazil**

2013 - current **Jury Member, PhD defense:**

- *João Pedro Papalardo Azevedo*, Thesis title: Commuting Probability in Compact Groups - Universidade de Brasília- Brazil, 2023
- *Wállef Januário Pereira da Silva*, Thesis title: Grupos Solúveis e Pronilpotentes com Condições de Engel - Universidade de Brasília- Brazil, 2022
- *Sara Raissa Silva Rodrigues*, Thesis title: Sobre grupos finitos admitindo automorfismos coprimos - Universidade de Brasília, 2021
- *Iker de las Heras Kerejeta*, Thesis title: Some topics on finite  $p$ -groups and pro- $p$  groups - EHU/UPV Universidad del País Vasco - Spain, 2020
- *Michell Lucena Dias*, Thesis title: Partições Minimais de Grupos - Universidade de Brasilia, 2019
- *Pedro Henrique Pereira Daldegan*, Thesis title: Characteristically simple subgroups of quasiprimitive permutation groups - Universidade Federal de Minas Gerais- Brazil, 2018
- *Agenor Freitas de Andrade*, Thesis title: Grupos com restrições em classes de conjugação verbal- Universidade de Brasília, 2016
- *Emerson Ferreira de Melo*, Thesis title: Grupos Finitos com um Grupo Metacíclico de Automorfismos - Universidade de Brasilia, 2015
- *Raimundo de Araújo Bastos Júnior*, Thesis title: Condições de Engel em subgrupos verbais de grupos residualmente finitos - Universidade de Brasilia, 2014
- *Francisco Enio do Nascimento Lima*, Thesis title: Centralizadores em Grupos Localmente Finitos - Universidade de Brasilia, 2013

2015 - current **Jury Member, PhD candidacy:**

*Genildo de Jesus Nery* (Universidade de Brasilia, 2019), *Hercules Carvalho Bezerra* (Universidade de Brasilia, 2019), *Sara Raissa Silva Rodrigues* (Universidade de Brasilia, 2018), *Danilo Sanção da Silveira* (Universidade



de Brasília, 2016), *Jhoel Estebany Sandoval Gutierrez* (Universidade de Brasília, 2015), *Yerko Contreras Rojas* (Universidade de Brasília, 2015)

2014 - current **Jury Member, Msc defense:**

*André Pereira Araújo* (Universidade de Brasília, 2022), *João Pedro Papalardo Azevedo* (Universidade de Brasília, 2020), *Mateus Figueiredo de Souza* (Universidade de Brasília, 2020), *Christe Héliida Moreira Montijo* (Universidade de Brasília, 2018), *Sara Raissa Silva Rodrigues* (Universidade de Brasília, 2017), *Alexandre Matos da Silva Pires de Moraes* (Universidade de Brasília, 2017), *Regiane Lopes de Oliveira* (Universidade de Brasília, 2017), *Jéssyca Cristine Lima de Souza* (Universidade de Brasília, 2016), *Jucineide Silva Santos* (Universidade Federal da Bahia, 2016), *Daniel dos Santos Araújo* (Universidade Federal de Goiás, 2016), *Moacyr Rodrigues Miranda Junior* (Universidade Federal da Bahia, 2015), *Ana Carolina Moura Texeira* (Universidade Federal da Bahia, 2015), *Rebeca Chuffi Saccochi* (Universidade de Brasília, 2015), *Leandro Araújo Castro* (Universidade de Brasília, 2014)

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## Outreach Activities

- 2024 'Il diritto di contare' **Co-organizer**, *an event organized by the Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia*, 13/05/2024 Modena, [https://www.dscg.unimore.it/sites/dip06/files/2024-05/Ildirittodiconciare\\_locandina\\_cineforum.pdf](https://www.dscg.unimore.it/sites/dip06/files/2024-05/Ildirittodiconciare_locandina_cineforum.pdf)
- 2022 'Tavola Rotonda Paolo Ruffini, 1799' **Co-organizer and Speaker**, *an event organized by the Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia*, 17/05/2022 Modena, <https://www.magazine.unimore.it/site/home/notizie/articolo820062974.html>
- 2019 'Leonardo e a matemática' **Co-organizer**, *a conference sponsored by the Italian Embassy in Brasília*, 15/04/2019 Brasília, <http://www.exatas.unb.br/ie-informa/leonardo-e-a-matematica-2/>
- 2018 'Matemática sorprendente/Surprising Mathematics' **Co-organizer**, *a conference sponsored by the Italian Embassy in Brasília, special guest: P. Oddifreddi*, 24/10/2018 Brasília, <http://www.exatas.unb.br/ie-informa/surprising-mathematics-2/>

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## Professional Memberships

- 2007 - current **INdAM**, *Instituto Nazionale di Alta Matematica - GNSAGA (Italy)*, <https://www.altamatematica.it/gnsaga/aderenti/aderenti-2023/>
- 2011 - current **Iberian Network of Group Theory**, *(Spain)*
- 2022 - current **European Women in Mathematics**, <https://www.europeanwomeninmaths.org/profile/cristina-acciarri/>
- 2022 - current **UMI**, *Unione Matematica italiana (Italy)*, <https://umi.dm.unibo.it>

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## Other academic achievements and merits

- 23/02/2016 Italian PhD degree in Mathematics officially homologated by the Universidade de Brasília (Brazil) to the corresponding Brazilian PhD degree 'Doutor em Matemática'.
- 30/09/2010 Italian PhD degree in Mathematics officially homologated by the Universidad del País Vasco (Spain) to the corresponding Spanish PhD degree 'Doctor en Matemáticas'.

- 21/06/2010 Laurea Triennale and Laurea Specialistica (Italian first and second level degree) in Mathematics officially homologated by the Spanish Ministry for Education to the corresponding Spanish degree 'Licenciado en Matemáticas'.
- 07/12/2018 CELPE-BRAS Diploma in Portuguese as a Foreign Language (Proficiência em Língua Portuguesa para Estrangeiros) Level "Avançado" (Superior / Proficiency level) issued by Education Ministry-INEP- Brasil.
- 02/02/2010 DELE Diploma in Spanish as a Foreign Language (Diploma de Español como Lengua Extranjera) Level C2 (Superior / Proficiency level) issued by the Instituto Cervantes.

## Languages

Italian	native	<i>mother tongue</i>
English	fluent	
Spanish	fluent	<i>Diploma DELE European Level C2 – Instituto Cervantes</i>
Portuguese	fluent	<i>Diploma CELPE-Bras "Avançado", European Level C1</i>
French	basic	

## Computer skills

OS:	Unix, Mac Os X, Windows	Languages:	PASCAL, Fortran 90, C++
Packages:	GAP, Matlab, Mathematica, Maple	Typesetting:	LaTeX, Word

## References

1. Pavel Shumyatsky, University of Brasilia, Brazil, email: pavel2040@gmail.com
2. Evgeny Khukhro, University of Lincoln, UK, email: khukhro@yahoo.co.uk
3. Andrea Lucchini, University of Padua, Italy, email: lucchini@math.unipd.it
4. Gustavo A. Fernández-Alcober, University of the Basque Country (Bilbao), Spain, email: gustavo.fernandez@ehu.eus