



Cristina Acciarri

Curriculum Vitae

Updated February 4, 2023

Personal Information

Full Name Cristina Acciarri
Date of Birth 7th 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
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Website www.mat.unb.br/acciarri

Academic appointments and scientific positions

11/2021–current “Ricercatore RTDb” (tenure track - Assistant Professor) in Algebra (MAT-02), at the Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia, Italy.
01/2013–current “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 (L’Aquila, Italy) with a three years predoctoral grant.

Qualifications - Habilitations

25/1/2023– 25/1/2033 **ASN Italian National Scientific Habilitation - Professore di I fascia** (Full Professor), MIUR, 01/A2, Algebra/Geometry, Italy.
30/3/2018– 30/3/2028 **ASN Italian National Scientific Habilitation - Professore di II fascia** (Associate Professor), MIUR,01/A2, Algebra/Geometry, 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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Evaluation	Excellent with “European PhD label” (highest possible grade in the Italian system).
2004–2006	Laurea Specialistica in Mathematics , <i>University of Rome ‘La Sapienza’, Department of Mathematics “G. Castelnuovo”</i> , Rome, Italy.
Final mark	110/110 e lode (highest possible grade in the Italian system with honors).
2001–2004	Laurea Triennale in Mathematics , <i>University of Rome ‘La Sapienza’, Department of Mathematics “G. Castelnuovo”</i> , Rome, Italy.
Final mark	110/110 e lode (highest possible grade in the Italian system with honors).
1996–2001	Maturità classica (high school) , <i>Liceo Classico ‘F. Stabili’</i> , Ascoli Piceno, Italy.
Final mark	100/100 (highest possible grade in the Italian system).

Research links

ORCID	http://orcid.org/0000-0002-7895-7705
MathSciNet	http://www.ams.org/mathscinet/search/publications.htmlpg1=IID&s1=933258
Scopus	https://www.scopus.com/authid/detail.uri?authorId=40461096800
Publons	https://publons.com/researcher/AAQ-6428-2020/
Researchgate	https://www.researchgate.net/profile/Cristina-Acciarri
arXiv	https://arxiv.org/search/?searchtype=author&query=Acciarri%2C+C

Publications

29. C. Acciarri, R.M. Guralnick and P. Shumyatsky. *Criteria for solubility and nilpotency of finite groups with automorphisms*, **Bulletin of the London Mathematical Society**, early view (2023),1–7.
doi:<http://doi.org/10.1112/blms.12794> arXiv: 2206.03403
28. C. Acciarri, R.M. Guralnick and P. Shumyatsky. *Coprime automorphisms of finite groups*, **Transactions of the American Mathematical Society**, 375:7 (2022), 4549–4565.
doi:<https://doi.org/10.1090/tran/8553> arXiv: 2108.00919
27. C. Acciarri and P. Shumyatsky. *Profinite groups with restricted centralizers of π -elements*, **Mathematische Zeitschrift**, 301(2022), 1039–1045.
doi:<https://doi.org/10.1007/s00209-021-02955-9> SharedIt:link arXiv: 2107.00491
26. C. Acciarri and P. Shumyatsky. *A stronger form of Neumann’s BFC-theorem*, **Israel Journal of Mathematics**, 242(2021), 269–278.
doi:<https://doi.org/10.1007/s11856-021-2133-1> arXiv: 2003.09933
25. C. Acciarri and A. Lucchini. *Genus, thickness and crossing number of graphs encoding the generating properties of finite groups*, **Discrete Mathematics**, 344(2021), 112289.
doi:<https://doi.org/10.1016/j.disc.2021.112289>. arXiv: 2003.02444
24. C. Acciarri and P. Shumyatsky. *On the rank of a finite group of odd order with an involutory automorphism*, **Monatshefte für Mathematik**, 194(2021), 461–469.
doi:<http://dx.doi.org/10.1007/s00605-020-01479-4>.
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>. 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).
http://www.worldscibooks.com/etextbook/8138/8138_chap01.pdf **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

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).

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

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- 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.

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.

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 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. Zaleskii (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

Teaching

- Instructor** Institution: Department of Physics, Informatics and Mathematics, **Università degli Studi di Modena e Reggio Emilia** (Italy)
- academic year 22-23 *Algebra superiore* (graduate course MN1-306, 36 hours)
Matematica (undergraduate course SB-25/B-47, 56 hours)
- academic year 21-22 *Strutture algebriche* (graduate course MN1-512, 36 hours)
Geometria e Algebra Lineare (undergraduate course MN2-01375/MECC-2, 20 hours)
- Instructor** Institution: Department of Mathematics, **Università degli Studi di Padova** (Italy)

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

Instructor Institution: 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)

Students advising (main advisor, unless otherwise specified)

- 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.

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.

- 2022- pres Journal of Algebra
2019- pres Journal of Pure and Applied Algebra
2021- pres Communications in Algebra
2020- pres Glasgow Mathematical Journal
2021- pres Communications in Mathematics
2012- pres Journal of Group Theory
2017- pres Archiv der Mathematik
2018- pres Bollettino della Unione Matematica Italiana
2015- pres International Journal of Group Theory
2014- pres Rendiconti del Seminario Matematico della Università di Padova
2017- pres Filomat (Univerzitet u Nishu)

3. Grant review activities.

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2019- pres FAPDF - Brazil
2018- pres CAPES - Brazil
2015- pres CNPq -Brazil

Research visits

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

Periods from 11th to 23rd May 2022 (2 weeks).

from 21st September to 5th October, from 15th to 20th December 2019 (3 weeks).

from March 2017 to January 2018 (11 months, sabbatical year).

from 10th January to 22nd January 2016 (2 weeks).

Activities Research in collaboration with A. Lucchini and P. Shumyatsky

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

Periods from 30th September to 22nd October 2017 (3 weeks).

from 10th January to 4th April 2010 (12 weeks).

from 27th September to 21st December 2009 (12 weeks).

from 7th March to 6th July 2009 (17 weeks).

from 2nd September to 21st December 2008 (16 weeks).

from 6th March to 30th June 2008 (17 weeks).

Activities Research in collaboration with G. A. Fernández Alcober.

Invited talks at Conferences

- TBA, Finite and Residually Finite Groups -a conference in honor of 60th birthday of P. Shumyatsky, Bilbao, Spain, Bilbao, June 20th–23th 2023.
- TBA, Advances in Group Theory and Applications 2023, Lecce, June 5th–9th 2023 <https://www.advgrouptheory.com/agta2023/index.html>
- *Coprime automorphisms of finite groups*, Ischia Group Theory 2022, Ischia (Italy), June 20th– 25th 2022.
- *A stronger version of Neumann's BFC-theorem*, Groups in Galway 2021, (online at ZOOM), December 2nd 2021 <https://torossmann.github.io/gig21/>
- TBA, Topics in Group Theory - on the occasion of A. Lucchini 60th birthday, Padova (Italy), September 22nd– 25th 2020 (postponed).
- *A stronger version of Neumann's BFC-theorem*, GOTHIC -Ischia Online Group Theory Conference, (online at ZOOM), March 4th 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 19th– 23rd 2018.
- *Groups with automorphisms whose fixed points satisfy Engel-like conditions.*, First Joint UMI-SIMAI-PTM meeting, Wroclaw (Poland), September 17th– 20th 2018.
- *Graphs encoding the generating properties of a finite group*, II Joint Meeting Spain-Brazil in Mathematics RSME-SEMA-SBM-SBMAC, Cádiz (Spain), December 11th– 14th 2018.
- *Coverings of commutators in profinite groups*, Ischia Group Theory 2016, Ischia (Italy), March 29rd– April 2nd 2016.

- *Profinite groups and the fixed points of coprime automorphisms.*, II Congresso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada, Campinas, December 5th–7th 2016.
- *Coverings in finite and profinite groups*, II Workshop in Groups and Algebras, Belo Horizonte (Brazil), July 6th– 8th 2015.
- *On words that are concise in residually finite groups*, Ischia Group Theory 2014, Ischia (Italy), April 1st–5th 2014.
- *Positive laws on generators in p -adic analytic pro- p groups*, 29^o Colóquio Brasileiro de Matemática-IMPA, Rio de Janeiro (Brazil), July 21st– August 2nd 2013.
- *On verbal subgroups in finite and profinite groups*, XIX Coloquio Latinoamericano de Algebra, Pucón (Chile), December 11th–14th 2012.
- *Fixed points of coprime automorphisms of finite groups*, XXII Brazilian Algebra Meeting, Salvador (Brazil), July 15th–20th 2012.

Other talks at Conferences and Seminars

- *On profinite groups with restricted centralizers of π -elements*, Algebra Seminar, University of Padova, May 12th 2022.
- *Una versione più forte del BFC-teorema di Neumann*, welcoming seminar for researchers recently hired, University of Modena and Reggio Emilia, April 7th 2022.
- *Uma versão mais forte do BFC-Teorema de Neumann*, Semana Temática de Álgebra do Programa de Verão PGMAT-UFBA - 2022, Federal University of Bahia, February 3rd 2022.
- *A stronger version of Neumann's BFC-theorem*, Algebra, Combinatorics and Number Theory Seminar, University of Porto, October 26th 2021.
- *A stronger version of Neumann's BFC-theorem*, Seminário de Álgebra IMECC-UNICAMP, University of Campinas, October 26th 2021.
- *On graphs encoding the generating properties of groups*, XI Summer Workshop in Mathematics, Brasilia, February 18th–22nd 2019.
- *Graphs encoding the generating properties of a finite group*, International Congress of Mathematicians 2018, Rio de Janeiro, August 1st–9th 2018.
- *On groups with automorphisms whose fixed points are Engel*, Advances in Group Theory and Applications 2017, Lecce, September 5th–8th 2017.
- *Graphs encoding the generating properties of a finite group*, Groups St Andrews 2017, Birmingham, August 5th–13th 2017.
- *Profinite groups and the fixed points of coprime automorphisms*, Groups, Rings, and their Automorphisms – Conference in Honor of Evgeny Khukhro, Lincoln, August 31st– September 2nd 2016.
- *Coverings of commutators in profinite groups*, First joint meeting Brazil-Spain in Mathematics, Fortaleza, December 5th–10th 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 13th–19th 2015.
- *On concise words in residually finite groups*, XX Coloquio Latinoamericano de Algebra, Lima, December 8th–12th 2014.
- *Fixed points of coprime automorphisms of finite groups*, Ischia Group Theory 2012, Ischia, March 26th–29th 2012.
- *Focal subgroups and outer commutator words*, Seminario de Algebra, Universidade de Brasília, Brasília,

2nd December 2011.

- *Focal subgroups and outer commutator words*, EMS-RSME Joint Mathematical Weekend, Bilbao, October 7th–9th 2011.
- *Focal subgroups and words*, seminar of the Departamento de Matemáticas, Universidad de Murcia, 2nd June 2011.
- *Focal subgroups and words*, New Trends in Group Theory 2011, CIEM, Castro-Urdiales, May 17th–20th 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, 8th March 2011.
- *Positive laws on large sets of generators*, Seminario de Algebra, Universidade de Brasília, Brasília, 19th 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 23rd–28th 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 17th–19th 2010.
- *Positive laws on large sets of generators*, Groups St Andrews 2009 in Bath, University of Bath, Bath, August 1st–15th 2009.
- *Leyes positivas en grupos*, 25 años de álgebra en la UPV/EHU, University of the Basque Country, Bilbao, May 28th–29th 2009. ○ *Positive laws on large sets of generators in residually- p groups: finitely generated vs infinitely generated*, The Postgraduate Group Theory Conference 2009, University of Manchester, Manchester, April 15th–17th 2009.
- *Positive laws on large sets of generators: some questions*, Infinite Group Theory, University of Edinburgh, Edinburgh, December 10th–12th 2008.

Other conferences, workshops and courses attended

- *Oberwolfach Seminar: Algebraic Properties of Profinite Groups*, Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach-Walke, June 12th–18th 2011
- *Series of mini-courses at the conference GAGTA 5 - Geometric and Asymptotic Group Theory with Applications*, Universitat Politècnica de Catalunya, Manresa, July 5th–8th 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 10th–11th 2011
- *Workshop INdAM* INdAM - University of Rome “La Sapienza”, Rome, May 24th–28th 2010
- *Ischia Group Theory 2010*, Ischia (Naples), April 14th–17th 2010
- *Group Theory* - a joint meeting of the Edinburgh Mathematical Society and the London Mathematical Society, University of Edinburgh, Edinburgh, December 12th–13th 2008
- *Algebraic groups and related topics* LMS/EPSC short instructional course, University of Birmingham, Birmingham, September 15th–19th 2008
- *Interactions towards secure communication*, CIEM, Castro-Urdiales, May 15th–16th 2008
- *Workshop ‘The Algebraic Structure of Profinite Groups’*, Royal Holloway- University of London, London, April 7th–8th 2008.
- *Teoria dei gruppi e applicazioni*, University of Florence, Florence, December 12th–14th 2007
- *CIRM-Clay-INdAM/GNSAGA conference ‘Profinite and Asymptotic Group Theory*, Levico Terme (Trento), September 16th – 21st 2007

- 1st GNAMPA Summer School De Ludo Aleae Rome, September 10th–14th 2007
- Summer Course in Mathematics - Course in Algebra, SMI - Scuola Matematica Interuniversitaria, Cortona, August 13th–31st 2007

Administratives Duties

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

2014 - current **Jury Member, Msc defense:**, André Pereira Araújo (*Universidade de Brasilia, 2022*), João Pedro Papalardo Azevedo (*Universidade de Brasilia, 2020*), Mateus Figueiredo de Souza (*Universidade de Brasilia, 2020*), Christe Héliida Moreira Montijo (*Universidade de Brasilia, 2018*), Sara Raissa Silva Rodrigues (*Universidade de Brasilia, 2017*), Alexandre Matos da Silva Pires de Moraes (*Universidade de Brasilia, 2017*), Regiane Lopes de Oliveira (*Universidade de Brasilia, 2017*), Jéssyca Cristine Lima de Souza (*Universidade de Brasilia, 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 Brasilia, 2015*), Leandro Araújo Castro (*Universidade de Brasilia, 2014*).

2013 - current **Postgraduate Mathematical Programme faculty board member**, Departamento de Matemática, Universidade de Brasília, Brazil.

2020-2021 **Group Theory Session Co-organizer**, at 33rd Brazilian Mathematical Colloquium, IMPA, Rio de Janeiro, Brazil, https://impa.br/en_US/eventos-do-impa/2021-2/33cbm/.

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- 2019 - current **Conference 'Finite and Residually Finite Groups' Co-organizer**, a conference in honor of 60th birthday of P. Shumyatsky, Bilbao, Spain, <https://acciarricristina.wixsite.com/pavel60>.
- 2019 - 2020 **Conference 'XII Summer Workshop in Mathematics' Co-organizer**, Brasilia, Brazil, 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.
- 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.

Professional Memberships

- 2007 - current **INdAM**, Istituto Nazionale di Alta Matematica - G.N.S.A.G.A (Italy).
- 2011 - current **Iberian Network of Group Theory**, (Spain).
- 2022 - current **European Women in Mathematics - EWM**, <https://www.europeanwomeninmaths.org/profile/cristina-acciarri/>.

Outreach Activities

- 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 Brasilia, 15/04/2019 Brasilia, <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 Brasilia, special guest: P. Oddifreddi, 24/10/2018 Brasilia, <http://www.exatas.unb.br/ie-informa/surprising-mathematics-2/>.

Languages

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

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Computer skills

OS: Unix, Mac Os X, Windows
Packages: GAP, Matlab, Mathematica,
Maple

Languages: PASCAL, Fortran 90, C++
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