
Date personale

Nume Agore
Prenume Ana-Loredana

Educatie

2010–2012 **Doctorat**, *Vrije Universiteit Brussel*, Belgium.
2008–2010 **Master, Algebra si Teoria numerelor**, *Universitatea din Bucuresti*, Romania.
2004–2008 **Licenta, Specializarea Matematica**, *Universitatea din Bucuresti*, Romania.
2000–2004 **Colegiul National Mihai Viteazul**, *Bucuresti*, Romania.

Teza de doctorat

Titlu *Categorical constructions, braidings on monoidal categories and bicrossed products of Hopf algebras*
Coordonatori Prof. S. Caenepeel, Prof. G. Militaru
Calificativ Cu cea mai inalta distinctie¹

Domenii de cercetare

Algebre Hopf si Grupuri cuantice, Teoria categoriilor, Teoria grupurilor, Algebre Lie
Am publicat 26 de articole in reviste cotate ISI, 1 articol intr-un proceedings indexat ISI al unei conferinte internationale si alte 6 articole sunt trimise spre publicare. Factor de impact individual cumulat (2014): 7.86.

Lucrarile mele au peste 80 de citari: 30 dintre acestea sunt in articole trimise spre publicare iar alte 50 sunt deja aparute in reviste dintre care mentionez: *Memoirs AMS, Adv. Math, Appl. Comput. Harmon. Anal., J. London Math Soc, Proc. AMS, J. Algebra, Algebr. Represent. Theory, J. Pure Applied Algebra, Appl. Cat. Structures.*

Experienta profesionala

2007– **Asistent Cercetare**, *Universitatea din Bucuresti*, Romania.
2010– **Asistent**, *Vrije Universiteit Brussel*, Belgium.
2013– **Lector**, *Academia de Studii Economice Bucuresti*, Romania.

¹In sistemul belgian, calificativele ce pot fi acordate unei teze de doctorat sunt urmatoarele: Satisfacator, Cu distinctie, Cu inalta distinctie, Cu cea mai inalta distinctie.

2009–2010 **Asistent**, *Academia de Studii Economice Bucuresti*, Romania.

Premii

2013 Premiul **Gheorghe Titeica** al Academiei Romane pentru contributi la studiul algebrelor Hopf

Vizite de cercetare

- 03.2008 University of Pittsburgh, USA
- 07.2008 Vrije Universiteit Brussel, Belgium
- 10.2014 University of Copenhagen, Denmark
- 02.2015 Centre de Recerca Matemàtica, Barcelona, Spain
- 03.2015 Max Planck Institut für Mathematik, Germany
- 03.2016 Institut des Hautes Études Scientifiques, Paris, France

Granturi si burse de cercetare

- 2014– **F.W.O. Postdoctoral grant**, *Belgium*.
Obtinut prin competitie internationala
- 2015 **Granturi pentru vizite de cercetare (aprox. o luna) oferite de Max Planck Society (Germany), Institut des Hautes Études Scientifiques (France), INdAm (Italy)**.
Obtinate prin competitie internationala
- 2012–2014 **F.W.O. Aspirant grant**, *Belgium*.
Obtinut prin competitie internationala
- 2010–2012 **F.W.O. Aspirant grant**, *Belgium*.
Obtinut prin competitie internationala
- 2011–2014 **CNCS/UEFISCU Grant Idei nr. 88/05.10.2011**.
Director Prof. dr. G. Militaru
- 2010–2013 **CNCSIS/UEFISCU Grant TE nr. 88/02.08.2010**.
Director Asist. Dr. M. Iovanov
- 2010 **Bursa doctorala POSDRU**.
Declinata in favoarea grantului F.W.O.
- 2007–2010 **CNCSIS/UEFISCU Grant Idei nr. 24/28.09.07**.
Director Prof. dr. G. Militaru
- 07.2009 **Grant Erasmus**.
Pentru participarea la Scoala de vara *Geometric and Algebraic Methods with Applications in Physics*, Universiteit Antwerpen, Belgium
- 08.2007 **Scuola Matematica Interuniversitaria**.
Bursa oferita pentru participarea la Scoala de vara Cortona, Italy

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Expuneri la conferinte internationale

1. *Categorical constructions for Hopf algebras* - The First International Conference on Mathematics and Statistics, American University of Sharjah, Sharjah, UAE - 18-21 March, 2010
2. *Categorical methods for Hopf algebra theory* - International Category Theory Conference, University of Genova, Italy - 20-26 June, 2010
3. *Crossed product of Hopf algebras* - International Conference on Hopf algebras and tensor categories, University of Almeria, Spain - 4-8 July, 2011
4. *Braidings on the category of bimodules, Azumaya algebras and descent data* - International conference Algebra Geometry Mathematical Physics, Universite Haute Alsace Mulhouse, France - 24-26 October, 2011
5. *Bicrossed descent theory of exact factorizations and the number of types of groups of finite order* - International Conference Groups and Their Actions, Bedlewo, Poland - 9-13 July, 2012
6. *Deformations and descent type theory for Hopf algebras* - International Conference Algebra Geometry Mathematical Physics, Brno University of Technology, Czech Republic - 12-14 September, 2012
7. *Classifying Exact Factorizations of a Group Through a Given Subgroup and the Number of Types of Groups of Finite Order* - 2nd Biennial Group Theory Conference, Dogus University, Istanbul, Turkey - 4-8 February, 2013
8. *Exact factorizations for Hopf algebras. Applications* - Joint international meeting of the American Mathematical Society and the Romanian Mathematical Society, "1 Decembrie 1918" University of Alba-Iulia, Alba-Iulia, Romania - June 27-30, 2013
9. *Extending structures for algebras* - International Conference 'Some Trends in Algebra', Charles University, Prague, Czech Republic - September 3-6, 2013
10. *The extending structures problem for Lie algebras* - XXIInd International Conference on Integrable Systems and Quantum symmetries, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University Prague, Czech Republic - June 23-29, 2014.
11. *Classifying split extensions of quantum groups* - 30th International Colloquium on Group Theoretical Methods in Physics, Ghent University, Belgium, July 14-18, 2014
12. *Hochschild products and global non-abelian cohomology for algebras* - The Second International Conference on Mathematics and Statistics, American University of Sharjah, Sharjah, United Arab Emirates - April 2-5, 2015
13. *On the classification of bicrossed products of Hopf algebras* - New trends in Hopf algebras and tensor categories, Royal Flemish Academy of Belgium for Science and the Arts, Brussels, Belgium - June 2-5, 2015
14. *Jacobi and Poisson algebras* - The Eighth Congress of Romanian Mathematicians, Iasi, Romania - June 25 - July 1, 2015.
15. *The factorization index for finite groups* - The Young Reserchers in Mathematics Conference, University of Oxford, United Kingdom - August 17-20, 2015.

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16. *Galois groups and group actions on Lie algebras* - Ferrara Algebra Workshop 2015, University of Ferrara, Italy - September 17-18, 2015.

Expuneri la workshop-uri

1. *Bicrossed products of Hopf algebras. Applications* - Workshop for Young Researchers in Mathematics, 3-rd Edition, Ovidius University, Constanta, Romania - May 9-10, 2013
2. *Classifying complements for Hopf algebras, Lie algebras and groups* - Rings, Categories and Hopf algebras (dedicated to the 70th birthday of Constantin Nastasescu), University of Bucharest, Romania - May 18-19, 2013
3. *The factorization problem for Lie algebras* - X. International Workshop Lie Theory and its Applications in Physics, Bulgarian Academy of Sciences, Varna, Bulgaria - June 17-23, 2013

Diverse

Recenzent la *Mathematical Reviews*

Referent pentru numeroase reviste din strainatate (e.g. *J. Pure Appl. Algebra*, *Arch. Math.*, *Symmetry Integr. Geom.*, *Comm. Algebra* etc.)

Contributii stiintifice relevante

1. **Jacobi and Poisson algebras**, *Journal of Noncommutative Geometry*, (cu G. Militaru), 40 pagini.
2. **Classifying complements for groups. Applications**, *Annales de l'Institut Fourier*, (cu G. Militaru), 17 pagini.
3. **Free Poisson Hopf algebras generated by coalgebras**, *Journal of Mathematical Physics* **10** (2014), 083502.
4. **Classifying complements for associative algebras**, *Linear Algebra and its Applications* **446** (2014), 345–355.
5. **Extending structures for Lie algebras**, *Monatshefte für Mathematik* **174** (2014), 169–193, (cu G. Militaru).
6. **Braidings on the category of bimodules, Azumaya algebras and epimorphisms of rings**, *Applied Categorical Structures* **22** (2014), 29–42, (cu S. Caenepeel, G. Militaru).
7. **Classifying bicrossed products of Hopf algebras**, *Algebras and Representation Theory* **17** (2014), 227–264, (cu G. Militaru, G. Bontea).
8. **Classifying complements for Hopf algebras and Lie algebras**, *Journal of Algebra* **391** (2013), 193–208, (cu G. Militaru).
9. **Limits of coalgebras, bialgebras and Hopf algebras**, *Proceedings of the American Mathematical Society* **139** (2011), 855–863.
10. **Categorical constructions for Hopf algebras**, *Communications in Algebra* **39** (2011), 1476–1481.

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11. **Extending structures II: The quantum version**, *Journal of Algebra* **336** (2011), 321–341, (cu G. Militaru).
12. **Bicrossed products for finite groups**, *Algebras and Representation Theory* **12** (2009), 481–488, (cu A. Chirvasitu, B. Ion, G. Militaru).

20.07.2015

Ana-Loredana Agore