

Educatie

- 04.2016 **Abilitare, Matematica**, *Universitatea din Bucuresti*, Romania.
2010–2012 **Doctorat, Matematica**, *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 abilitare

- Titlu: *Extending structures*, 166 pagini (Aprilie 2016)
Facultatea de Matematica si Informatica, Universitatea din Bucuresti
Domeniu: Matematica

Teza de doctorat

- Titlu: *Categorical constructions, braidings on monoidal categories and bicrossed products of Hopf algebras*, 199 + xx pagini (Octombrie 2012), *Vrije Universiteit Brussel*
Coordonatori: Prof. S. Caenepeel, Prof. G. Militaru
Calificativ: Cu cea mai inalta distinctie¹

Domenii de cercetare

Teoria grupurilor, Algebre Lie, Teoria categoriilor, Algebre Hopf

- Publicatii: Am publicat 31 de articole in reviste cotate ISI, 1 articol intr-un proceedings indexat ISI al unei conferinte internationale si alte 4 articole sunt trimise spre publicare. Scor relativ de influenta (SRI) aferent anului 2017: 19,48.²
- Citari: Conform MathSciNet, lucrarile mele au peste 130 de citari; 75 dintre acestea sunt publicate in reviste cu $SRI \geq 0.5$ precum: *Memoirs AMS*, *Adv. Math.*, *J. Noncommutative Geom.*, *J. London Math. Soc.*, *Math. Zeit.*, *Proc. AMS*, *Int. J. Math.*, *J. Geom. Phys.*, *J. Algebra*, *J. Pure Appl. Algebra*, *Comm. Algebra* etc.
- Indice Hirsch: 6 (Web of Science), 6 (Scopus), 7 (MathSciNet), 9 (Google Scholar).

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.

²Conform ordinului MENCs nr. 6129/20.12.2016.

Experienta profesionala

- 2010– **Asistent**, *Vrije Universiteit Brussel*, Belgium.
2015– **Cercetator Stiintific III**, *Institutul de matematica 'Simion Stoilow' al Academiei Romane*, Romania.
2013–2015 **Lector**, *Academia de Studii Economice Bucuresti*, Romania.
2009–2010 **Asistent**, *Academia de Studii Economice Bucuresti*, Romania.

Vizite de cercetare

- 11.2018 Max Planck Institut für Mathematik, Bonn, Germany
09.2018 Institut des Hautes Études Scientifiques, Paris, France
09.2017 Freiburg Institute for Advanced Studies, Germany
11.2016 Institut des Hautes Études Scientifiques, Paris, France
09.2016 Mathematical Institute, University of Oxford, UK
03.2015 Max Planck Institut für Mathematik, Bonn, Germany
02.2015 Centre de Recerca Matemàtica, Barcelona, Spain
10.2014 University of Copenhagen, Denmark
03.2008 University of Pittsburgh, USA

Premii, granturi si burse

- 08.2018 **Open arms travel grant** pentru a participa la *International Congress of Mathematicians*, Rio de Janeiro, Brazil
2015– **Granturi pentru vizite de cercetare oferite de Max Planck Society (Germany), Institut des Hautes Études Scientifiques (France), INdAM (Italy)**.
Obtinate prin competitie internationala
2014– **F.W.O. Postdoctoral grant**, *Belgium*.
Obtinut prin competitie internationala
09.2017 Selectata pentru a participa la **Heidelberg Laureate Forum**, University of Heidelberg, Germany
12.2013 **Premiul Gheorghe Titeica al Academiei Romane pentru anul 2011**.
Acordat pentru contributiile la studiul algebrilor Hopf
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**.
Membru al echipei de cercetare; director proiect prof. dr. G. Militaru
2010–2013 **CNCSIS/UEFISCU Grant TE nr. 88/02.08.2010**.
Membru al echipei de cercetare; director proiect asist. dr. M. Iovanov
2010 **Bursa doctorala POSDRU**.
Declinata in favoarea grantului F.W.O.

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🌐 Homepage: <http://homepages.vub.ac.be/~aagore/welcome.html>

- 2007-2010 **CNCSIS/UEFISCU Grant Idei nr. 24/28.09.07.**
Membru al echipei de cercetare; director proiect 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 organizata anual in Cortona, Italy
- 2004-2010 **Bursa de merit**, Universitatea din Bucuresti.
Acordata in perioada studiilor de licenta si master pe baza rezultatelor obtinute in anul universitar anterior

Expuneri la conferinte internationale

- 02.2017 **On the category of (Poisson) Hopf algebras**, *Conference for young researchers in homotopy theory and categorical structures*, Max Planck Institut für Mathematik, Bonn, Germany.
<https://www.mpim-bonn.mpg.de/node/6791>
- 07.2016 **Bicrossed descent theory for groups. Applications**, *7th European Congress of Mathematics*, Technische Universität Berlin, Germany.
http://www.7ecm.de/program/contributed_talks.html
- 01.2016 **Galois theory for Lie algebras**, *Workshop on Hopf algebras and related topics*, University of Turin, Italy.
<https://sites.google.com/site/whrt2016/speakers-and-participants>
- 09.2015 **Galois groups and group actions on Lie algebras**, *Ferrara Algebra Workshop 2015*, University of Ferrara, Italy.
<https://sites.google.com/site/fwcm2015/speakers-and-participants>
- 08.2015 **The factorization index for finite groups**, *The Young Reserchers in Mathematics Conference*, University of Oxford, United Kingdom.
<http://www.yrm2015.co.uk/assets/booklet/YRM2015-Booklet.pdf>
- 06.2015 **Jacobi and Poisson algebras**, *The Eighth Congress of Romanian Mathematicians*, "Alexandru Ioan Cuza" University, Iasi, Romania.
<http://www.math.uaic.ro/cmr2015/index.php?talks>
- 06.2015 **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.
<http://homepages.ulb.ac.be/~jvercruy/HA2015/>
- 04.2015 **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.
<http://www.aus.edu/conferences/aus-icms-15>
- 07.2014 **Classifying split extensions of quantum groups**, *30th International Colloquium on Group Theoretical Methods in Physics*, Ghent University, Belgium.
<http://www.group30.ugent.be/docs/Group30-Programme.pdf>

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- 06.2014 **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.
<http://www.intsystems.cz/2014-2/>
- 09.2013 **Extending structures for algebras**, *International Conference "Some Trends in Algebra"*, Charles University, Prague, Czech Republic.
<http://www.karlin.mff.cuni.cz/~sta/sta13/talks.html>
- 06.2013 **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.
<http://imar.ro/ams-ro2013/talks.html>
- 06.2013 **The factorization problem for Lie algebras**, *X. International Workshop Lie Theory and its Applications in Physics*, Bulgarian Academy of Sciences, Varna, Bulgaria.
<http://theo.inrne.bas.bg/~dobrev/LT10-SCH.pdf>
- 05.2013 **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.
<http://homepages.vub.ac.be/~scaenepe/posterworkshop.pdf>
- 05.2013 **Bicrossed products of Hopf algebras. Applications**, *Workshop for Young Researchers in Mathematics, 3-rd Edition*, Ovidius University, Constanta, Romania.
<http://math.univ-ovidius.ro/Workshop/2013/WYRM/speakers.htm>
- 02.2013 **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.
<http://istanbulgroup2013.dogus.edu.tr>
- 09.2012 **Deformations and descent type theory for Hopf algebras**, *International Conference Algebra Geometry Mathematical Physics*, Brno University of Technology, Czech Republic.
<http://agmp.eu/brno12/>
- 07.2012 **Bicrossed descent theory of exact factorizations and the number of types of groups of finite order**, *International Conference Groups and Their Actions*, Mathematical Research and Conference Center in Bedlewo, Poland.
<https://www.impan.pl/BC/Arch/2012/Actions.html>
- 10.2011 **Braidings on the category of bimodules, Azumaya algebras and descent data**, *International conference Algebra, Geometry and Mathematical Physics*, Universite Haute Alsace Mulhouse, France.
<http://www.agmp.eu/mul11/>
- 07.2011 **Crossed product of Hopf algebras**, *International Conference on Hopf algebras and tensor categories*, University of Almeria, Spain.
<https://w3.ual.es/Congresos/hopf2010/program2.htm>
- 06.2010 **Categorical methods for Hopf algebra theory**, *International Category Theory Conference*, University of Genova, Italy.
<http://ct2010.disi.unige.it/index.php?page=4>

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- 03.2010 **Categorical constructions for Hopf algebras**, *The First International Conference on Mathematics and Statistics*, American University of Sharjah, Sharjah, United Arab Emirates.
<http://www.aus.edu/conferences/icms10/>

Expuneri recente la seminarii (selectie)

- 05.2017 **The factorization problem for Hopf algebras**, *Séminaire Quantique*, Institut de Recherche Mathématique Avancée, Strasbourg, France.
http://irma.math.unistra.fr/php/equip_sem.php?equipe=ATGQR&theme=Quantique&periode=passe
- 03.2017 **The factorization problem: from groups to Hopf algebras**, *Séminaire de Géométrie et Quantification*, Institut Henri Poincaré, Paris, France.
<http://www.iecl.univ-lorraine.fr/~Camille.Laurent-Gengoux/SeminaireIHP/seminaire.gq.htm>

Conferinte organizate

- 05.2016 **Brauer groups, Hopf algebras and monoidal categories**, *University of Turin, Italy*, Co-organizator impreuna cu A. Ardizzoni, S. Dascalescu, I. Goyvaerts, G. Militaru, P. Saracco, J. Vercruysse.
<http://homepages.vub.ac.be/~hopfalgb/Steffest/welcome.html>

Diverse

Recenzent la *Mathematical Reviews*

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

Activitate didactica

- 2010-2018 **Vrije Universiteit Brussel, Belgium**.
Am predat cursul de *Teoria categoriilor* (master in matematica) in perioada 2015-2018 precum si seminariile aferente cursului de *Geometrie algebrica* (licenta, an III) in perioada 2010-2015.
- 2009-2010 **Academia de Studii Economice, Bucuresti, Romania**.
- 2013-2015 Am predat cursul de *Matematica* (licenta, an I, Facultatea de Comert) precum si numeroase seminarii aferente cursurilor de *Matematica* (licenta, an I, Facultatea de Comert; licenta, an I, Facultatea de Marketing), *Algebra* (licenta, an I, Facultatea de Cibernetica, Statistica si Informatica Economica), *Analiza Matematica* (licenta, an I, Facultatea de Cibernetica, Statistica si Informatica Economica).

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