

## Laura Elena Nastasescu

<b>Education</b>	<p><b>Ph.D. in Mathematics</b>, University of Bucharest, Romania, 10.2013-11.2016 Adviser: Sorin Dăscălescu</p> <p><b>Master Degree in Algebra</b>, University of Bucharest, Romania 10.2011-6.2013 (graduated valedictorian, GPA: 9.93 out of 10)</p> <p><b>Scoala Normala Superioara (Advanced Master)</b>, Bucharest, Romania 10.2011-08.2013 (graduated, GPA: 19.65 of 20)</p> <p><b>Bachelor of Science</b>, Bucharest, Romania 10.2008-06.2011 (graduated valedictorian, GPA: 10 out of 10)</p>
<b>Honours</b>	<p><b>Prizes</b></p> <ul style="list-style-type: none"> <li>• Poster Award, International Congress of Women Mathematicians, Seoul, Korea 08.2014</li> <li>• L'Oréal-Unesco Prize National Fellowship Programme "For women in science" (4th place) 06.2014</li> <li>• National Research Council(CNCSIS) Prize for research for the paper "Frobenius algebras of corepresentations:gradings" 2014</li> <li>• National Research Council (CNCSIS) Prize for research for the paper "A Generalization of the Mitchell Lemma: The Ulmer Theorem and the Gabriel Popescu Theorem Revisited" 2013</li> </ul> <p><b>Fellowships</b></p> <ul style="list-style-type: none"> <li>• Ph.D. Scholarship, University of Bucharest 10.2013-09.2016</li> <li>• EU POSDRU Fellowship for PhD Students 07.2014-09.2015</li> <li>• BITDEFENDER Fellowship, Junior Research Position, Institute of Mathematics of the Romanian Academy 2013, 2014</li> <li>• Anghelescu Scholarship for Scientific Performance, 2011-2013</li> <li>• Merit Scholarship, Institute of Mathematics of the Romanian Academy, 2011-2013</li> <li>• Scientific Research Scholarship, University of Bucharest 2010-2011</li> <li>• Romanian National Merit Scholarship, University of Bucharest 2009-2012</li> </ul>
<b>Research positions</b>	<ul style="list-style-type: none"> <li>• Postdoc in Research Project PN-III-P1-1.1-TE-2016-0124, "Factorization problems for Hopf algebras and related topics", Project coordinator: Ana Agore 2018-2020</li> <li>• Research Assistant in Research Project PN-II-RU-TE-2014-4-2077, "Galois Representations and Modular Forms", Project Coordinator: Vicențiu Pașol 2014-2017</li> <li>• Research Assistant in Research Project PN-II-RU-TE-2012-3-0168 "Hopf Algebras, Tensor Categories and Hopf Monads", Project Coordinator: Sebastian Burciu 2012-2015</li> <li>• Research Assistant in the Research Project IDEI 0635, "Hopf Algebras in Category Theory, Representation Theory and Combinatorics", Project Coordinator: Sorin Dăscălescu 2011-2014</li> </ul>

- Employment**
- Research Assistant (permanent junior position) 11.2014-  
Institute of Mathematics of Romanian Academy,
  - Teaching Assistant, University of Bucharest 2014-2015
- Publications**
1. **Hopf algebra actions and transfer of Frobenius and symmetric properties**  
(with S. Dăscălescu and C. Năstăsescu), *accepted for publication in Mathematica Scandinavica*
  2. **Graded semisimple algebras are symmetric**  
(with S. Dăscălescu and C. Năstăsescu), *Journal of Algebra* 491(2017), 207-218
  3. **Symmetric algebras in categories of corepresentations and smash products,**  
(with S. Dăscălescu and C. Năstăsescu), *Journal of Algebra* 465(2016), 62-80
  4. **Group gradings on polynomial algebras,**  
(with S. Dăscălescu and C. Năstăsescu),  
*Communications in Algebra* 44(2016), no.8, 3340-3348
  5. **Calculus of functorial morphisms,**  
(with M. Dumitru and D. Joița),  
*Communications in Algebra* 44 (2016), no.5, 1952-1960
  6. **Frobenius algebras of corepresentations: gradings,**  
(with S. Dăscălescu and C. Năstăsescu), *Journal of Algebra* 406 (2014), 226-250
  7. **Recollement of Grothendieck Categories**  
(with D. Joița and C. Năstăsescu),  
*Bull. Math. Soc. Sci. Math. Roumanie*, 56(104) No. 1, 2013, 109–116
  8. **A Generalization of the Mitchell Lemma: The Ulmer Theorem and the Gabriel-Popescu Theorem Revisited,**  
(with S. Crivei and C. Năstăsescu),  
*Journal of Pure and Applied Algebra*, Volume 216,  
*Issue 10, October 2012, Pages 2126–2129*
  9. **Locally Stable Grothendieck Categories: Applications,**  
(with F. Castano-Iglesias and C. Năstăsescu),  
*Applied Categorical Structure*, April 2013, Volume 21, Issue 2, pp 105–118
  10. **On an Extended Hadamard Maximum Determinant Problem,**  
(with D. Joița), *Mathematical Inequalities & Applications*,  
*Volume 14, Number 4 (2011), 927–934*
  11. **On Presheaves Satisfying (F2) and a Separation Axiom,**  
(with D. Joița), *Bull. Math. Soc. Sci. Math. Roumanie* No. 2, 2011, 137–145
- Preprint**
1. **Bicrossed products with the Taft algebra**  
(with A. Agore), arXiv:1712.06095
- Talks and posters**
- Workshop “Brauer groups, Hopf algebras and monoidal categories” May 2016  
Turin, Italy
  - Workshop for Young Researchers in Mathematics, May 2016  
Constanța, Romania
  - Young researchers in mathematics, August 2015  
Oxford, England

- Workshop “New results in theoretical and applied mathematics”, May 2015  
Bucharest, Romania
  - International Congress of Women Mathematicians, Seoul, Korea August 2014
  - Workshop “Rings, Categories and Hopf Algebras”, May 2013  
Bucharest, Romania
- Travel Grants**
- Group 30-grants for less then 10 participants 2014  
for the 30th International Colloquium on  
Group Theoretical Methods in Physics, Ghent, Belgium
  - Travel Grants for 1000 Mathematicians ICM 2014 2014  
Invitation Program: NANUM 2014 I received the  
TOGETHER 2014 travel grant for participants of  
both ICWM 2014 and ICM 2014, Seul, Korea
- Research Fellowship**
- Max Planck Institute of Mathematics, Bonn, Germany(1 month period) 2018
- Research Visits**
- Vrije Universiteit, Bruxelles, Belgium (2 weeks period) 2017
  - Research Scholar, Fudan University, Shanghai, China (3 weeks period) 2016
- Conferences attended**
- Young researchers in homotopy theory and categorical structure, 13-15.02.2017  
Max Planck Institute of Mathematics, Bonn, Germany
  - “Brauer groups, Hopf algebras and monoidal categories”, 24-27.05. 2016  
Turin, Italy,
  - Workshop for Young Researchers in Mathematics, 19-22.05. 2016  
Constanta, Romania,
  - Workshop on Hopf Algebras and Related Topics, 21-22.01. 2016  
Turin, Italy,
  - Ferrara Algebra Workshop, 17-18.09. 2015  
Ferrara, Italy,
  - Young researchers in mathematics, 17-20.08. 2015  
Oxford, England,
  - New trends in Hopf algebras and tensor categories, 2-5.06. 2015  
Brussels, Belgium,
  - “New results in theoretical and applied mathematics”, 14.05.2015  
Bucharest, Romania
  - Masterclass on Topological quantum field theories, 6-10.10. 2014  
quantum groups and 3-manifold invariants,  
Copenhagen, Denmark,
  - International Congress of Mathematicians, 13-21.08. 2014  
Seoul, Korea,
  - International Congress of Women Mathematicians , 12-14.08. 2014  
Seoul, Korea,
  - 30th International Colloquium 14-18.07. 2014  
on Group Theoretical Methods in Physics,  
Ghent, Belgium,
  - Hopf algebra representations and tensor categories, 2013  
Scientific Seminar, IMAR, Bucharest, Romania

- “Rings, Categories and Hopf Algebras”, 18-19.05. 2013  
Bucharest, Romania,
- Perspectives on Mathematical Research in Society, 25-28.09. 2012  
Bucharest, Romania,
- Probability and Related Aspects, 22-26.05. 2012  
Alba Iulia, Romania,
- Sparsity and Computation, 16-27.05. 2011  
Program for Women in Mathematics, IAS, Princeton, USA