

Mihai EPURE

Curriculum Vitae

Experience:

2021-present Researcher, "Simion Stoilow" Institute of Mathematics of the Romanian Academy (I.M.A.R.)

2018-2022 Teaching Assistant, UNIVERSITY OF BUCHAREST, Department of Mathematics

2005-2021 Junior Researcher, "Simion Stoilow" Institute of Mathematics of the Romanian Academy (I.M.A.R.)

2002-2005 temporary Junior Researcher, "Simion Stoilow" Institute of Mathematics of the Romanian Academy

2004 Teaching Assistant, University of Kansas, Department of Mathematics

2003 Research Assistant, University of Kansas, Department of Mathematics

Education:

1. Phd. Thesis in Mathematics: A new class of pseudo-Dedekind domains and its star operation extensions (UNIVERSITY OF BUCHAREST, 2015, coordinated by C.S. I Dorin Mihail Popescu)

2. UNIVERSITY OF KANSAS, Department of Mathematics, Lawrence, Kansas, Graduate student (3 semesters, 2003-2004)

3. UNIVERSITY OF BUCHAREST, Department of Mathematics, Bucharest, Romania, Master of Science, June 2004 (3 semesters)

4. SCOALA NORMALA SUPERIOARA, Bucharest, Romania (2 semesters, 2002- 2003)

5. UNIVERSITY OF BUCHAREST, Department of Mathematics,
Bucharest, Romania, Bachelor of Science, June 2002 (8 semesters)

6. UNIVERSITY of TOR VERGATA, Department of Mathematics,
Rome, Italy, October 1st 2000 – February 28th 2001, ERASMUS
student

Research interest:

Commutative Algebra

Awards:

Fall 2003 Research Grant, University of Kansas

2002-2003 fellowship SNSB (Scoala Normala Superioara Bucuresti)

2000-2001 Student Fellowship awarded by SOCRATES/ERASMUS
European Program (University of Tor Vergata, Rome, Italy)

1998–2002 Student Fellowship, University of Bucharest

1996 3rd prize at the National Mathematical Olympiad and 1st prize
at the “Gheroghe Mihoc” Contest

1995 Honorable Mention at the National Mathematical Olympiad

1994 3rd prize at the “Dan Barbilian” Contest and Honorable
Mention at the “Spiru Haret – Gheorghe Vranceanu” Contest

1993 2nd prize at the “Dan Barbilian” Contest and Honorable Mention
at the “Spiru Haret – Gheorghe Vranceanu” Contest

Conferences

- “Stanley-Reisner Rings”, Eforie Nord, Romania, 3-8 iunie 2002.
- “Workshop on Homological and Combinatorial Aspects of Koszul Algebras”, Eforie Nord, Romania, 10-14 septembrie 2002.
- “Commutative Algebra, Singularities and Computational Algebra”, Sinaia, Romania, septembrie 2002.
- “Polynomial Identity Rings”, Barcelona, Spain, 1-10 iulie 2003.

- KUMUNU, Lawrence, Kansas, U.S.A. 2003 si 2004.
- “Workshop on Cohen-Macaulay Rings and Related Structure”, Constanta, Romania, martie 2005.
- “Algorithmic and Combinatorial Methods in Commutative Algebra”, Constanta, Romania, 19-25 septembrie 2005.
- “Toric Algebra”, Constanta, Romania, 25-30 septembrie 2006.
- National School of Cryptography, Vatra Dornei, Romania, august 2006.
- “Elliptic Curves”, Constanta, Romania, 5-12 septembrie 2007.
- “Commutative Algebra and Related Topics”, Constanta, Romania, 29-31 martie 2007.
- ”Homological and Combinatorial Aspects in Commutative Algebra”, Busteni, Romania, iunie 2007.
- “Combinatorial Commutative Algebra”, Constanta, Romania, octombrie 2008.
- “Combinatorics in Commutative Algebra”, Bucuresti, Romania, I.M.A.R. 19-25 septembrie 2010.
- “Computer Algebra and Combinatorics” Bucuresti, Romania, I.M.A.R. 19-23 septembrie 2011.
- “Discrete Invariants in Commutative Algebra and in Algebraic Geometry” Mangalia, Romania, 2-8 septembrie 2012.
- “Conference on commutative rings, integer-valued polynomials and polynomial functions ” Graz, Austria, 19-22 decembrie 2012.
- “ Algebraic Methods in Combinatorics” Bucuresti, Romania, I.M.A.R. 2-6 septembrie 2013.
- “ Algebraic and Combinatorial Applications of Toric Ideals” Bucuresti, Romania, I.M.A.R. 1-5 septembrie 2014.
- “Interactions of Computer Algebra with Commutative Algebra, Combinatorics and Algebraic Statistics” Bucuresti, Romania, I.M.A.R. 31 august -4 septembrie 2015.
- “ EMS Summer School on Multigraded Algebra and Applications” Moieciu de Sus, Romania, 18-23 august 2016.
- “ The REGULARITY of the INVARIANT National School on Algebra, a GENERIC edition!” Bucuresti, Romania, F.M.I. 4-8 septembrie 2017.
- “Combinatorial structures in algebra and geometry” Constanta, Romania, 27-31 august 2018.
- “ Graded modules over polynomial rings with applications to free divisors” Bucuresti, Romania, I.M.A.R. 20-24 mai 2019.

Invited conference/seminar talks:

- “Injectiv and Irreducible Resolutions” in “Toric Algebra”, Constanta, Romania, septembrie 2006.
- “Points of Finite Order on Elliptic Curves” in “Elliptic Curves”, Constanta, Romania, septembrie 2007.
- “A new class of pseudo-Dedekind domains and its star operations extensions” in “Discrete Invariants in Commutative Algebra and in Algebraic Geometry”, Mangalia, Romania, septembrie 2012.
- “A Schreier domain type condition and its star operation extensions” in “Conference on commutative rings, integer-valued polynomials and polynomial functions ” Graz, Austria, 21 decembrie 2012.
- “A Schreier domain type condition, its star operation extensions and a more general setting (ideal systems for monoids)” in “ Algebraic Methods in Combinatorics” Bucuresti, Romania, septembrie 2013.
- sunt un membru activ al grupului care organizeaza seminarul Algebra comutativa si combinatorica “Nicolae Radu”

Research Grants:

- CEx05-D11-11/2005 “Combinatorial, Algebraic and Topological Methods in Algebra and Geometry”, director: C.S.I Nicolae Manolache.
- 2-CEx06-11-20/2006 “Invariants of Algebraic, Geometric and Topological Structures” director: C.S.I Vasile Brinzanescu.
- CEx M3-249/2006 “International Cooperation in the Fields of Algebra, Geometry and Topology”, director: C.S.I Dorin Popescu.
- ID-51/2007 “Combinatorial, Homological and Arithmetic Methods in the Study of Monomial Ideals”, director: C.S.I Iustin Coanda.
- ID-1903/2009 “Algorithms and combinatorics in algebra and in geometry”, director: C.S.I Dorin Popescu.
- TE-46/2010 “Algebraic Modelling of some Combinatorial Objects and Computational Applications”, director: Conf. Marius Vladoiu.