

Andrei ZAROJANU

CONTACT INFORMATION

BIRTH DATE: 28.03.1987 — Suceava, Romania

EMAIL: andrei.zarojanu@yahoo.com

PHONE: +40744353561

EDUCATION

- SEPTEMBER 2011 I have started my PhD in algebra
Faculty of Mathematics and Computer Science, University of Bucharest
Thesis: Contributions to the study of Stanley's conjecture on monomial ideals
Coordinator: prof. dr. Dorin POPESCU
- JUNE 2011 Masters Degree in Algebra
Faculty of Mathematics and Computer Science, University of Bucharest
Overall GPA: 9.93/10.00
Dissertation: Stanley depth and Stanley's conjecture
Coordinator: prof. dr. Dorin POPESCU
- JUNE 2009 Bachelor of Science degree in Mathematics
Faculty of Mathematics and Computer Science, University of Bucharest
Overall GPA: 9.45/10.00
Bachelor thesis: Arithmetic of polynomial rings
Coordinator: conf. dr. Cornel BAETICA
- JULY 2010 Bachelor of Science degree in Computer Science
Faculty of Mathematics and Computer Science, University of Bucharest
Overall GPA: 9.33/10.00
Bachelor thesis: Huffman trees and forests
Coordinator: prof. dr. Ioan TOMESCU
- JULY 2010 Bachelor of Sports Science
Faculty of Physical Education and Sport Science, UNEFS
Bachelor thesis: Study on the model of the game as a guard in basketball
Coordinator: conf. dr. Alina MOANTA
- JULY 2006 I graduated from high school C.N. "STEFAN CEL MARE" Suceava,
Mathematics and Computer Science
Final Exam GPA: 9.65/10.00

PUBLICATIONS:

- Andrei Zarojanu: **Stanley Conjecture on intersection of three monomial primary ideals** Bull. Math. Soc. Sci. Math. Roumanie 55 (103), no.3, 2012,
- Dorin Popescu, Andrei Zarojanu, **Depth of some square free monomial ideals** Bull. Math. Soc. Sci. Math. Roumanie, 56(104), 2013, 117-124,
- Dorin Popescu, Andrei Zarojanu, **Depth of some special monomial ideals** Bull. Math. Soc. Sci. Math. Roumanie, **56(104)**, 2013, 365-368,
- Dorin Popescu, Andrei Zarojanu, **Three generated, squarefree, monomial ideals** to appear in Bulletin Math. Soc. Sci. Math. Roumanie **58 (106)**, (2015), no 3,
- Viviana Ene, Andrei Zarojanu, **On the regularity of binomial edge ideals** Mathematische Nachrichten, 1522-2616, DOI: 10.1002/mana.201300186, 2014,

- Bogdan Inchim, Andrei Zarojanu, **An algorithm for computing the multigraded Hilbert depth of a module** Experimental Mathematics, 23:3, 322-331, DOI: 10.1080/10586458.2014.908753,
- Bogdan Inchim, Andrei Zarojanu, **An introduction to Hilbert depth** Proceedings of the Third Conference of Mathematical Society of Moldova IMCS-50, 2014, 86-89.

HONORS AND AWARDS:

- Special prize, Romanian National Olympiad of Mathematics, Sibiu 2003
- 2 participations at the Romanian National Olympiad of Mathematics
- over 30 prizes won at local and national mathematics competitions
- ECDL Certification

INVITED TALKS

- National Algebra School - Algebraic and Combinatorial Applications of Toric Ideals. Romania Sept. 2014
- The Third Conference of Mathematical Society of the Republic of Moldova, Chisinau, Republic of Moldova, August 2014
- National Algebra School - Algebraic Methods in Combinatorics, Bucharest, Romania Sept. 2013
- Special Session on Commutative Algebra in Honor of Prof. Dr. Dorin Popescu, Workshop for Young Researches in Mathematics, Constanta, Romania, May 2012
- National Algebra School - Computer Algebra and Combinatorics, Bucharest, Romania Sept. 2011

OTHER PARTICIPATIONS TO INTERNATIONAL CONFERENCES

- CoCoA International School on Computer Algebra, Osnabruck, Germany, June 2013
- National Algebra School - Discrete Invariants in Commutative Algebra and in Algebraic Geometry, Mangalia, Romania, Sept. 2012

EXPERIENCE

- March - September 2011, Bitdefender Junior Research Position at the Institute of Mathematics of the Romanian Academy
- 2012 - present Assistant Researcher at the Institute of Mathematics of the Romanian Academy

PARTICIPATION TO GRANTS

- ID-PCE-2011-1023 Algorithmic and theoretical methods for studying monomial and binomial ideals with applications in combinatorics, commutative algebra and graph theory, cond. Dorin Popescu
- PN-II-RU-TE-2012-3-0161 Algebraic study of some combinatorial problems and associated computational experiments, cond. Bogdan Ichim
- Programe doctorale si postdoctorale - suport pentru cresterea competitivitatii cercetarii n domeniul Stiintelor exacte - ID 137750

LANGUAGES SPOKEN

- English
- Romanian, native

HOBBIES

- Basketball
- Karting