

Bogdan N. Ichim

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EDUCATION:

CARL VON OSSIETZKY UNIVERSITÄT , Institute of Mathematics
Oldenburg, Germany
Doctor of Science, December 2004 (7 semesters)
Major: Commutative Algebra, Thesis: "Generalised Koszul Complexes"

UNIVERSITY OF BUCHAREST, Faculty of Mathematics
Bucharest, Romania
Master of Science, February 2001 (3 semesters)
Major: Algebra, Thesis: "Stanley - Reisner Rings "

UNIVERSITY " POLITEHNICA " BUCHAREST, Faculty of Computer Science
Bucharest, Romania
Candidate for Bachelor of Science (4 semesters)
Major: Computers

UNIVERSITY OF BUCHAREST, Faculty of Mathematics
Bucharest, Romania
Bachelor of Science, June 1999 (8 semesters)
Major: Advanced Mathematics, Thesis: "Solutions of the Yang - Baxter Equation "

" VASILE ALECSANDRI " COLLEGE
Galati, Romania
Graduated, July 1995
Major: Mathematics - Physics

AWARDS:

2009 - 2011 Research Grant, CNCSIS (2 years)
2001 - 2004 Student Fellowship, University of Oldenburg (6 semesters)
2000 Travel Grant, University of Bucharest
1995 - 1999 Student Fellowship, University of Bucharest (8 semesters)
1995 Member of the Romanian " big team " for the International
Mathematical Olympiad.
1995 II-nd prise at the Romanian Mathematical Olympiad
1994 Honor Student, " Vasile Alecsandri " College
1994 III-rd prise at the Romanian Mathematical Olympiad

EXPERIENCE:

2008 - present Principal Scientific Researcher III at the Institute of Mathematics of
the Romanian Academy
2005 - 2009 Wissenschaftliche Mitarbeiter at the University of Osnabrück
2002 - 2004 Wissenschaftliche Hilfskraft at the University of Oldenburg

2001 - 2008 Assistant Researcher at the Institute of Mathematics of the Romanian Academy

PUBLICATIONS:

- B. Ichim. "Generalized Koszul Complexes". Thesis, Oldenburg University (Germany, 2004).
- B. Ichim and U. Vetter. "Koszul Bicomplexes and generalized Koszul complexes in projective dimension one". *Comm. In Algebra*. 34, 4131 – 4156 (2006).
- B. Ichim and U. Vetter. "Length Formulas for the homology of generalized Koszul complexes". *Revue Roumaine de Math. Pures et App*. 52 (2), 177 – 199 (2007).
- B. Ichim and U. Vetter. "Generalized Koszul complexes". *Analele Stiintifice ale Universitatii Ovidius*. 14 (2), 61 – 72 (2007).
- W. Bruns and B. Ichim. "On the coefficients of Hilbert quasipolynomials". *Proceedings of the AMS*. 135 (5), 1305 –1308 (2007) .
- B. Ichim and T. Römer. "On toric face rings". *Journal of Pure and App. Algebra*. 210, 249 – 266 (2007).
- B. Ichim and T. Römer. "The canonical module of a toric face ring". *Nagoya Math. J*. 194, 69 – 90 (2009).
- W. Bruns and B. Ichim. "Introduction to Normaliz 2.2". *Acta Universitatis Apulensis, Proceedings of ICTAMI 2009, Alba Iulia* , 113 – 132 (2009).
- W. Bruns and B. Ichim. "Normaliz: Algorithms for Affine Monoids and Rational Cones". *J. Algebra* 324, 1098 – 1113 (2010).
- W. Bruns, B. Ichim and C. Söger. "Introduction to Normaliz 2.5". *LNCS* 6327, 209 – 212 (2010).
- W. Bruns, R. Hemmecke, B. Ichim, M Köppe, and Christof Söger. "Challenging computations of Hilbert bases of cones associated with algebraic statistics". To appear in *Exp. Math*.

COMPUTER ALGEBRA:

- Normaliz 2.0, a new C++ extended version of the program Normaliz.
- jNormaliz, a Java GUI for the program Normaliz.
- Work on progress on a version with parallel processing possibilities of the program Normaliz, to be released as Normaliz 3.

CONFERENCE TALKS:

- B. Ichim. "Koszul complexes in projective dimension one". Osnabrück University (Germany, 2004).
- B. Ichim and U. Vetter. "Generalized Koszul complexes". *Workshop on Cohen-Macaulay Rings and Related Structures, Ovidius University (Romania, 2005)*.
- B. Ichim and B. Hovinen. "Free divisors from plane curves". *Minnowbrook Workshop on Commutative Algebra, Syracuse University (USA, 2005)*.
- B. Ichim. "On the coefficients of Hilbert quasipolynomials". *Luminy (France, 2006)*.
- B. Ichim. "Properties of toric face rings". *Genova University (Italy, 2006)*.
- B. Ichim. "On toric face rings". *Busteni (Romania, 2007)*.
- B. Ichim. "On Hilbert quasipolynomials". *Bucharest (Romania, 2008)*.

- B. Ichim. "How to compute the Hilbert polynomial?". Luminy (France, 2008).
- B. Ichim. "Introduction to Normaliz 2.2". Alba-Iulia (Romania, 2009).
- B. Ichim. "Computing the Hilbert polynomial with Normaliz". Oradea (Romania, 2009).
- B. Ichim. "Introduction to jNormaliz". Iasi (Romania, 2010).
- B. Ichim. "Introduction to Normaliz 2.5". Kobe (Japan, 2010).

LANGUAGES:

Reading, writing and speaking competence in English, German and French.
Reading competence in Italian, Spanish.

SKILLS:

Programming Languages: C, C++, JAVA, PASCAL, x86 ASM.