

Curriculum Vitae

Nicolae Ciprian Bonciocat

Personal Information:

Date and place of birth: 21-02-1966, Bucharest, Romania

Nationality: Romanian

Professional address:

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Academic rank:

Scientific Researcher III (CS III), Institute of Mathematics of the Romanian Academy (IMAR)

Languages:

Romanian–mother tongue; English–fluent; French–fluent; Italian–good

Degrees:

- PhD in Mathematics, Institute of Mathematics of the Romanian Academy, 2003, advisor Prof. Dr. Șerban Basarab, with the thesis *Contributions to the theory of group products*
- MSc in Algebra, Faculty of Mathematics, University of Bucharest, 1998
- BSc in Mathematics, Faculty of Mathematics, University of Bucharest, 1997
- BSc in Engineering, Faculty of Electronics and Telecommunications, Polytechnic Institute of Bucharest, 1990

Awards:

The prize “*Simion Stoilow*” of the Romanian Academy for 2008 (awarded in 2010), for results related to the factorization problem in polynomial rings

Research fields: Number Theory, Group Theory, Combinatorics

Research summary: My field of research includes the factorization problem in polynomial rings, irreducibility and separability criteria for polynomials with integer coefficients, irreducibility and separability criteria for multivariate polynomials over arbitrary fields, multiplicative convolutions of polynomials, lacunary polynomials, compositions of polynomials, linear combinations of relatively prime polynomials, root location for polynomials, orthogonal polynomials, bounds for the multiplicities of the irreducible factors of polynomials, zero-free regions for Dirichlet series and power series, Mahler measure, primality tests, connections between primality and irreducibility, nonvanishing criteria for determinants, arithmetic functions, diophantine equations, finite group theory, group products, group deformations, λ - rings, combinatorics, etc.

Research Grants:

- 1) CNCSIS Grant 106 (2006–2008): *Analytic and combinatorial methods in algebraic number theory and p -adic analysis* - director.
- 2) Grant 2-CEX06-11-20 (2006–2008) *Invariants of algebraic, geometrical and topological structures* - member of the research team.
- 3) Grant CEX05-D11-11 (2005–2008) *Combinatorial, algebraic, topological methods in algebra and geometry* - member of the research team.
- 4) Grant CNCSIS-UEFISCSU ID-PCE no. 51, code 304 (2007–2009) *Combinatorial, homological and arithmetical methods in the study of polynomial ideals* - member of the research team.
- 5) Grant CNCSIS-UEFISCSU ID-PCE no. 443, code 1190 (2008–2011) *Irreducibility, Factorizations, Krull Dimension, and their Computational Aspects in Polynomials, Rings, Modules, Lattices, and Grothendieck Categories* - member of the research team.
- 6) LEA Math Mode: MATHEMATIQUES & MODELISATION (2008–2011) - member of the research team.