

# Denis IBADULA

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## Work Information

### Current Position:

Senior Lecturer

"Ovidius" University Constanta, [Faculty of Mathematics and Computer Science](#), Mathematics Department

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## Contact Information:

### Address

"Ovidius" University Constanta, Faculty of Mathematics and Computer Science, Mamaia Bd. nb.124,

Constanta, 900527, Romania.

### E-mail

[denis@univ-ovidius.ro](mailto:denis@univ-ovidius.ro)

[denisibadula31@yahoo.com](mailto:denisibadula31@yahoo.com)

### **Web Address**

<http://math.univ-ovidius.ro/default.aspx?cat=Personal&ItemID=9>

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## **University and Post-university Studies:**

### **University Studies:**

"Ovidius" University, Constanta, Faculty of Mathematics and Computer Science,  
Specialization: Mathematics and Computer Science,

**head of promotion (graduated with 10).**

### **Master Degree:**

"Ovidius" University, Constanta, Faculty of Mathematics and Computer Science,  
Specialization: Representations of groups and Algebras,

**head of promotion (graduated with 10).**

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## **Ph.D.:**

### **Doctor in mathematics**

Specialization algebra,

Defended on June 5th 2006

[Institute of mathematics "Simion Stoilow" of the Romanian Academy](#)

### **Title of the Ph.D. Thesis**

Applications of Group Theory and Valuation Theory. The Igusa Local Zeta Function Associated to Non-degenerated Binary Cubic Forms. ([pdf](#))

**Adviser:** [Professor Serban Basarab](#)

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## **Fields of Research:**

### **Fields of Research:**

Algebraic Number Theory, Zeta Functions. Hyperplane Arrangements

### **Specific Fields of Research:**

Computational Number Theory, Igusa Zeta Function, Igusa Local Zeta Function, Weil Zeta Function, Poincare Series, p-adic integration, hyperplane arrangements, the holomorphy conjecture.

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## Publications:

### Books:

- **Denis Ibadula**, Willem Veys (editors), *Bridging Algebra, Geometry and Topology – Proceedings of the International conference ETMAGT, Eforie Nord, Romania, June 26-30, 2013*, Series Proceedings in Mathematics & Statistics, Springer-Verlag, New York, 2014;
- **Denis Ibadula**, *Probleme actuale in studiul functiei zeta Igusa (Current Issues in the Study of Igusa Local Zeta Function)*, The publishing house Expert of the National Institute INCE of the Romanian Academy, Bucharest, 2013;
- **Denis Ibadula**, Cristina Flaut, *Introducere in algebra liniara prin exercitii si probleme*, Editura Ex Ponto, Constanta, **2003**.

### Papers:

- Corina Birghila, **Denis Ibadula**, [Echelon Designs and Groebner Bases](#), submitted;
- Alexandru Dimca, **Denis Ibadula**, Anca Daniela Macinic, [Pencil type line arrangements of low degree: classification and monodromy](#), *Ann. Sc. Norm. Super. Pisa Cl. Sci.* (to appear), available at <http://arxiv.org/pdf/1305.5092.pdf>;
- **Denis Ibadula**, Anca Daniela Macinic, [Some Remarks on the Realizability Spaces of \(3, 4\)-nets](#), *Bridging Algebra, Geometry, and Topology, Springer Proceedings in Mathematics & Statistics*, Volume 96, Springer Verlag, New York 2014, 159--166;
- Edwin Leon Cardenal, **Denis Ibadula**, Dirk Segers, [Poles of the Igusa local zeta function of some hybrid polynomials](#), *Finite Fields and Their Application*, Volume 25, January 2014, 37--48;
- **Denis Ibadula**, Dirk Segers, [Convex proofs of some inequalities](#), *The Mathematical Gazette*, Volume 96, Number 537/2012, 523--526.;
- **Denis Ibadula**, Dirk Segers, [Determination of the real poles of the Igusa zeta functions for curves](#), *Revista Matemática Complutense*, vol. 25, no. 2, July 2012, 581--597;
- **Denis Ibadula**, [The Igusa Zeta Functions of the  \$GL\_2\(\mathbb{Q}\_p\)\$ -orbit of Fermat's Binary Form](#), *Combinatorial Aspects of Commutative Algebra*, Contemporary Mathematics (CONM), AMS, vol 502 (2009), 59--72;
- **Denis Ibadula**, [On the rationality of Igusa zeta functions of some classes of polynomials](#), *Analele Universitatii din Bucuresti, Seria Matematica*, Anul LVIII (2009), Number 2/2009, 199--210;
- **Denis Ibadula**, [The Arboreal Structure of the Metric Space  \$X := GL\_2\(\mathbb{Q}\_p\)/\mathbb{Q}\_p^\* GL\_2\(\mathbb{Z}\_p\)\$](#) , *Communications in Algebra*, Volume **34**, Number 12/2006, 4563--4571.

- **Denis Ibadula**, [On the Plane Cubics over  \$\mathbb{Q}\_p\$  and the Associated Igusa Zeta Function](#), [Bulletin Mathématique Soc. Sci. Math. Roumanie](#), Tome **49(97)**, Number 3/2006, 253--277.
- **Denis Ibadula**, [Tamely Ramified Extension's Structure and Applications](#), [Analele stiintifice la Universitatii Ovidius Constanta, Seria Matematica VI](#) Volume **9**, Fasc.2, 2001, 69--86.
- **Denis Ibadula**, [The Nonsingularity of the Gradient System Associated to a Finite Type Lie Algebra](#), [Analele stiintifice la Universitatii Ovidius Constanta, Seria Matematica VI](#) Volume **6**, Fasc.2, 1998, 69--87.

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## Organized Conferences:

- [Workshop for Young Researchers in Mathematics](#), 5th Edition, Constanta, Romania, May 20th-23th 2015, forthcoming;
- [Workshop for Young Researchers in Mathematics](#), 4rd Edition, Constanta, Romania, May 21th-24th 2014;
- [Give a "LIKE: to maths!](#), Meeting with Constanta's winners at Math Olympiads, Constanta, Romania, May 21, 2014;
- [Experimental and theoretical methods in algebra, geometry, and topology](#) – Satellite conference of the [Joint International Meeting of the American Mathematical Society](#), celebrating conference for Professors Alexandru Dimca and Stefan Papadima, Eforie Nord, Romania, June 21-25,2013;
- [Workshop for Young Researchers in Mathematics](#), 3rd Edition, Constanta, Romania, May 09th-11th 2013;
- [Special Session of Commutative Algebra](#), in the honor of the 65th birthday of Professor Dorin Popescu, Constanta, Romania, 11 May 2012;
- [Workshop for Young Researchers in Mathematics](#), 2nd Edition, Constanta, Romania, May 09th-12th 2012;
- [Workshop for Young Researchers in Mathematics](#), First Edition, Constanta, Romania, May 11th-14th 2011;
- [International Conference & Humboldt Kolleg "Fundamental Structures of Algebra"](#), Constanta, Romania, April 14th-18th 2010;
- [The 17th National School on Algebra Combinatorial Commutative Algebra](#), Constanta, Romania, October 5th-12th 2008;
- [Exploratory Workshop on Combinatorial Commutative Algebra and Computer Algebra](#), Mangalia, Romania, May 29th – 31th 2008;

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## Talks:

- Denis Ibadula, ***On the Igusa Zeta Function of some hybrid polynomials***, talk at [The third international workshop on zeta functions in algebra and geometry](#), The Center for Research in Mathematics A.C., CIMAT, Guanajuato, Mexico, September, 2014;
- Denis Ibadula, ***Igusa Zeta Function – from arithmetic to algebraic geometry***, talk at the [Scientific Seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, December 5, 2013;
- Denis Ibadula, ***Actual problems in the study of the Igusa zeta function and of the echelon designs***, talk at the [Simpoziul "Mathematical models in economy"](#), January 2013, *Institute of Mathematics "Simion Stoilow" of the Romanian Academy*, Bucharest, Romania;
- Denis Ibadula, ***Trees and applications in the computation of the Igusa zeta function***, talk at the *Scientific Seminar of Topology*, [Université de Nice- Sophia Antipolis](#), November 2012, Nice, France;
- Denis Ibadula, ***New poles of the Igusa local zeta function in positive characteristic***, talk at the [Arrangements in Pyrénées](#), Université de Pau, France, 14 June 2012;
- Denis Ibadula, ***Noi metode aritmetice în studiul polilor funcției zeta Igusa***, talk at the [Scientific Seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, 22 March 2012;
- Denis Ibadula, ***Special weighted polynomials in positive characteristic, the Igusa local zeta function and beyond***, talk at the workshop [Hyperplane Arrangements and Related Topics](#), Franta, [Université de Nice- Sophia Antipolis](#), 6 march 2012;
- Denis Ibadula, ***Clase de polinoame ponderate în caracteristică pozitivă și funcția zeta Igusa locală asociată***, talk at the [Scientific Seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, 18 November 2011;
- Denis Ibadula, ***Poles of the Igusa zeta function of some classes of polynomials in positive characteristic***, talk at [Katholieke Universiteit Leuven number theory and algebraic geometry seminars](#), Katholieke University of Leuven, Belgium, 19 October 2011;
- Denis Ibadula, ***Factorial Designs and Distracted Fractions***, talk at the [Scientific Seminary of Algebraic Statistics](#), talk at "Ovidius" University, Constanta, 23 June 2011;
- Denis Ibadula, ***Rationalitatea și polii funcției zeta Igusa locale pentru polinoame hibrid***, talk at the [Scientific "Algebra comutativa și combinatorica 'Nicolae Radu'"](#), IMAR, Bucharest, 31 May 2011;
- Denis Ibadula, ***Span-ul unui design***, talk at the [Scientific Seminary of Algebraic Statistics](#), "Ovidius" University, Constanta, 27 May 2011;

- Denis Ibadula, **Clase speciale de polinoame degenerare în caracteristică pozitivă și funcția zeta Igusa locală asociată**, talk at the [Scientific Seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, 20 May 2011;
- Denis Ibadula, **Computing Candidate poles and poles for the Igusa local zeta function for curves**, talk at the [Seminario de Centro de Investigación y de Estudios Avanzados del I.P.N.](#), Queretaro, Mexico, 11 April 2011;
- Denis Ibadula, **Computing the Igusa local zeta function for several classes of polynomials**, talk at the [Seminario de Centro de Investigación y de Estudios Avanzados del I.P.N.](#), Queretaro, Mexico, 4 April 2011;
- Denis Ibadula, **Ordonari monomiale si modele statistice**, talk at the [Scientific Seminary of Algebraic Statistics](#), "Ovidius" University, Constanta, 25 February 2011;
- Denis Ibadula, **Probleme actuale in studiul functiei zeta Igusa**, talk at the [Scientific Seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, January 2011;
- Denis Ibadula, **Which real candidate poles of expected order one of the Igusa local zeta function for curves are poles ?**, [Séminaire d'algèbre, topologie et géométrie, Université de Nice- Sophia Antipolis](#), October 2010, Nice, France;
- Denis Ibadula, **An improved result for the real poles of the Igusa local zeta functions for curves**, [The 18th National School on Algebra , Combinatorics in Commutative Algebra](#), "Simion Stoilow" Institute of Mathematics of the Romanian Academy, Bucharest, September 2010;
- Denis Ibadula, **An improved result for the real poles of the Igusa local zeta functions for curves**, [Special Session on Commutative Algebra](#), "Ovidius University", Constanta, Romania, September 2010;
- Denis Ibadula, **The explicit forms of the Igusa local zeta functions of certain plane curves**, [Configuration Spaces: Geometry, Combinatorics and Topology](#), Centro di Ricerca Matematica Ennio di Giorgi, Pisa, Italy, May-June 2010;
- Denis Ibadula, **On the structure of a certain space and it's applications to the theory of Igusa local zeta functions**, [p-adic Langlands Program](#), Institute for Advanced Study and Princeton University, Princeton, USA, May 2010;
- Denis Ibadula, **Isomorphic Forms and Their Igusa Local Zeta Function**, [Sixth Meeting for Young Mathematicians in Segovia: Zeta functions and exponential sums, Gorenstein and curve singularities](#), Segovia, Spain, February 2010;
- Denis Ibadula, **The poles of Igusa's local zeta functions of some diagonal forms**, November 2009, Nice, Franta, [Université de Nice- Sophia Antipolis](#);
- Denis Ibadula, **Computing the Igusa Local Zeta Function of Some Forms**, [LIB60BER, Topology of Algebraic Varieties, A conference in honour of the 60th Birthday of Anatoly Libgober](#), Jaca, Spain, June 2009;

- Denis Ibadula, ***On the Igusa Local Zeta Functions of the Nondegenerate Plane Cubic Forms***, talk at the [Number Theory and Algebraic Geometry Seminar of KULeuven](#), Katholieke University of Leuven, Belgium, 25 february 2009;
- Denis Ibadula, ***On the Igusa Local Zeta Functions of Some Classes of Polynomials in Two Variables***, talk at the [Scientific Seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, december 2008;
- Denis Ibadula, ***On the Rationality of the Igusa zeta function of some classes of polynomials***, talk at [the XVII-th edition of National School of Algebra "Combinatorial Commutative Algebra"](#), Constanta, Romania, october 2008;
- Denis Ibadula, ***A Special Case of Tits Building and its Applications to Number Theory***, talk at [Exploratory Workshop on Combinatorial Commutative Algebra and Computer Algebra](#), Mangalia, May 2008;
- Denis Ibadula, ***On the Group of the Rational Points of an Elliptic Curve***, talk at [the XVI-th edition of National School of Algebra, Elliptic Curves](#), Constanta, september 2007;
- Denis Ibadula, ***Computing the Rank of an Elliptic Curve***, talk at [the XVI-th edition of National School of Algebra, Elliptic Curves](#), Constanta, september 2007.
- Denis Ibadula, ***The Igusa Local Zeta Function for Plane Cubic Forms and Tits Building for  $SL_2(\mathbb{Q}_p)$*** , talk at the International Conference [Homological and Combinatorial Aspects in Commutative Algebra](#), July, 2007, Busteni, Romania;
- Denis Ibadula, ***The Mordell-Weill Theorem and the rank of an Elliptic Curve. Singular Elliptic Curves***, talk at the Scientific Seminary of the Faculty of Mathematics of Bucharest University, april 2007;
- Denis Ibadula, ***The Rational Points of an Elliptic Curve***, talk at [Scientific Seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, march 2007;
- Denis Ibadula, ***Classifying the Binary Cubic Forms over  $\mathbb{Q}_p$  From the Point of View of the Associated Igusa Local Zeta Function***, talk at [the XIV-th edition of the National School of Algebra, "Algorithmic and Combinatorial Methods in Commutative Algebra"](#), Constanta, september 2005 .
- Denis Ibadula, ***On the Metric Space  $X:=GL_2(\mathbb{Q}_p)/\mathbb{Q}_p^*GL_2(\mathbb{Z}_p)$*** , talk at [Scientific seminary of the Faculty of Mathematics](#), "Ovidius" University, Constanta, december 2005;

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## Specializations, Attended Conferences:

- 7 September – 14 September 2014, Guanajuato, Mexico, [The third international workshop on zeta functions in algebra and geometry](#), The Center for Research in Mathematics A.C., CIMAT, Guanajuato, Mexico;



- 12 June – 19 June 2014, Leuven, Belgium, [Katholieke University of Leuven, Belgium](#), Research Stay in the frame of Training Erasmus Mobilities;
- 25 August – 2 September 2013, Leuven, Belgium, [Katholieke University of Leuven, Belgium](#), Research Stay in the frame of Training Erasmus Mobilities;
- 20 June-25 June 2013, Eforie Nord, Romania, [Experimental and Theoretical Methods in Algebra, Geometry and Topology, Ovidius University of Constanta](#), Romania;
- 20 May-5 June 2013, Notre Dame, USA, [Thematic program on Motivic Invariants and Singularities at the Center of Mathematics at Notre Dame, Center of mathematics at University of Notre Dame](#), USA;
- 08-11 May 2013, Constanta, Romania, [Workshop for Young Researchers in Mathematics, third edition, Universitatea Ovidius, Constanta, Romania](#);
- 23-24 January 2013, Bucharest, Romania, [Symposium "Mathematical Models in Economy"](#), Institute of Mathematics "Simion Stoilow" of the Romanian Academy;
- 11-18 November 2012, Nice, France, Research fellowship in the frame of the POS-DRU Program, *Actual problems in the study of Igusa local zeta function and p-adic models in economy and finance*, research fellow at Professor Alexandru Dimca, [Université de Nice-Sophia Antipolis](#);
- 10-16 June 2012, Pau, France, [Arrangements in Pyrénées](#), Université de Pau, France;
- 11 May 2012, Constanta, Romania, [Special Session of Commutative Algebra, in the honor of the 65th birthday of Professor Dorin Popescu, Universitatea Ovidius, Constanta, Romania](#);
- 09-12 May 2012, Constanta, Romania, [Workshop for Young Researchers in Mathematics, second edition, Universitatea Ovidius, Constanta, Romania](#);
- 1- 8 March 2012, Nice, France, [Hyperplane Arrangements and Related Topics, Université de Nice- Sophia Antipolis](#);
- February 2012, Leuven, Belgium, **Visiting Fellow at the [Katholieke University of Leuven, Belgium](#)**, invited by [Professor Willem Veys](#);
- 22-23 November 2011, **Romanian Academy**, Bucharest, Romania, Conferinta Internationala cu tema: ["Socio-Economic Approach: Multi-Scale Integrated Analysis and Macroeconomic Modeling / Analize integrate multidimensionale si modelare macroeconomica - abordari socio-economice"](#);
- 28 October 2011, Leuven, Belgium, [Intercity Seminar](#), Katholieke University of Leuven, Belgium;
- 10-17 September 2011, **Luminy, France**, [Number Theory, Algebraic Geometry and Model Theory](#), in honour of Jan Denef, **Centre International de Rencontres Mathematiques**;



- August –October 2011, Leuven, Belgium, **Research Stay at the Algebra Section of Katholieke University of Leuven, Belgium**;
- 29 June- 5 July 2011, Brasov, Romania, [The Seventh Congress of the Romanian Mathematicians](#);
- 5-11 June 2011, Leuven, Belgium, [Toric Geometry and Applications](#), Katholieke University of Leuven, Belgium;
- 11-14 May 2011, Constanta, Romania, “Ovidius University”, [Workshop for Young Researchers in Mathematics](#)
- 31 March-22 April 2011, **Visiting Professor at the [Centro de Investigación y de Estudios Avanzados del I.P.N.](#), Queretaro, Mexico**;
- November 2010, Bucharest, Romania, Institute of Mathematics “Simion Stoilow” of the Romanian Academy, [A Geometry Workshop in Bucharest - VBLXV](#)
- October 2010, Nice, France, [Université de Nice- Sophia Antipolis](#) - Erasmus mobility, in partnership with [Université de Nice- Sophia Antipolis](#)
- September 20-25, 2010, Bucharest, Romania, Institute of Mathematics “Simion Stoilow” of the Romanian Academy, ["Combinatorics in Commutative Algebra" - the 18th National School on Algebra](#)
- September 4-7 2010, Constanta, Romania, “Ovidius University”, [Special Session on Commutative Algebra](#);
- Mai-June 2010, Pisa, Italy, Centro di Ricerca Matematica Ennio di Giorgi, [Configuration Spaces: Geometry, Combinatorics and Topology](#);
- **Mai 2010, Princeton, USA, Institute for Advanced Study and Princeton University, [p-adic Langlands Program](#)**;
- April 2010, Constanta, Romania, [International Conference & Humboldt Kolleg "Fundamental Structures of Algebra"](#);
- February 2010, Segovia, Spain, [Sixth Meeting for Young Mathematicians in Segovia: Zeta functions and exponential sums, Gorenstein and curve singularities](#);
- November 2009, Nice, Franta, [Université de Nice- Sophia Antipolis](#) - Erasmus mobility, in partnership with [Université de Nice- Sophia Antipolis](#);
- June 2009, Jaca, Spain, [LIB60BER, Topology of Algebraic Varieties, A conference in honour of the 60th Birthday of Anatoly Libgober](#);
- February March 2009, Leuven, Belgium, **Visiting Fellow at the [Katholieke University of Leuven, Belgium](#)**, invited by [Professor Willem Veys](#);
- October 2008, Constanta, Romania, ["Combinatorial Commutative Algebra" the 17-th edition of National School of Algebra](#);

- August-September 2008, The *Abdus Salam* International Centre for Theoretical Physics, Trieste, Italia, [\*\*Summer School and Conference Mathematics, Algorithms and Proofs;\*\*](#)
- June 2008, Anogia Academic Village, Crete, Greece, [\*\*Workshop on "Non positive Curvature and Elementary Theory of Free Groups"\*\*](#) ;
- May 2008, Mangalia, Romania, [\*\*Exploratory Workshop on Combinatorial Commutative Algebra and Computer Algebra;\*\*](#)
- September 2007, Constanta, Romania, [\*\*"Elliptic Curves"\*\*](#) the 16-th edition of [National School of Algebra](#)
- July 2007, Busteni, Romania, International Conference [\*\*"Homological and Combinatorial Aspects in Commutative Algebra"\*\*](#);
- May-June 2007, Bellaterra, Barcelona, Spain, [\*\*"Advanced Course in Group-Based Cryptography"\*\*](#), **Centre de Recerca Matematica;**
- March 2007, Constanta, Romania, [\*\*Conference on Commutative Algebra and Related Topics"\*\*](#);
- September 2006, Constanta, Romania, [\*\*"Toric Algebra"\*\*](#), the 15-th edition of [National School of Algebra;](#)
- Mai 2006, Liege, Belgium: [\*\*International Conference on Combinatorics, Automata & Number Theory;\*\*](#)
- September 2005, Constanta, Romania, [\*\*"Algorithmic and Combinatorial Methods in Commutative Algebra"\*\*](#), the 14-th edition of [National School of Algebra](#)
- August 2005, Constanta, Romania: [\*\*Hyperplane Arrangements and Constructible Sheaves;\*\*](#)
- July 2005, Anogia Academic Village, Heraklion, Greece: [\*\*Number Fields and Curves over Finite Fields;\*\*](#)
- March – April 2005, **Cambridge**, UK: [\*\*An introduction to Recent Applications of Model Theory;\*\*](#)
- July 2004, Targu Jiu, Romania, [\*\*"Local Cohomology Module Theory"\*\*](#), the 13-th edition of [National School of Algebra;](#)
- September 2003, Eforie Nord, Romania, [\*\*"Monomial Algebra"\*\*](#), the 12-th edition of [National School of Algebra;](#)
- June 2003, Pitesti, Romania, **The 5-th Congress of Romanian Mathematicians;**
- September 2002, Eforie Nord, Romania, [\*\*"Homological and Combinatorial Aspects of Koszul Algebras"\*\*](#), the 11-th edition of [National School of Algebra](#)
- May-June 2002, Ravello, Italy: [\*\*Euro-Conference "Models Theory and Applications"\*\*](#);

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## Grants:

- Grant of The Center for Research in Mathematics A.C., [CIMAT](#), [Guanajuato, Mexico](#), [September 7-14, 2014](#);
- Training Erasmus Mobilty Grant (2014), European Comision, [“Ovidius” University Constanta](#) in partnership with [Katholieke University of Leuven](#);
- Training Erasmus Mobilty Grant (2013), European Comision, [“Ovidius” University Constanta](#) in partnership with [Katholieke University of Leuven](#);
- Grant of [Foundation Compositio Mathematica](#) for organization of mathematical conferences in 2013;
- Research Felowship Grant in the frame of the POS-DRU Program, research fellow at [Université de Nice- Sophia Antipolis](#), invited by Professor Alexandru Dimca, november 2012;
- **Grant of [Dinu Patriciu Foundation](#), [The 1<sup>st</sup> PRIZE in Education for The BEST ROMANIAN UNIVERSITY TEACHER in the year 2011](#);**
- **European Research Mobility Grant, August 1, 2011 - October 31, 2011, in the frame of the POS-DRU Program, project title: *Actual problems in the study of Igusa local zeta function and p-adic models in economy and finance*;**
- Erasmus Mobilty Grant (2011), European Comision, [“Ovidius” University Constanta](#) in partnership with [Katholieke University of Leuven](#);
- **Visiting Professor Grant offered by [Secretaria de Relaciones Exteriores de Mexico](#) and [Embajada de Mexico en Rumania](#), at the invitation of prof. Wilson Zuniga-Galindo;**
- **Postdoctoral Grant at “Simion Stoilow” Institute of Mathematics of the Romanian Academy (IMAR), in the frame of the POS-DRU Program, project title: *Actual problems in the study of Igusa local zeta function and p-adic models in economy and finance*, December 1, 2010 - November 30, 2012;**
- Erasmus Mobilty Grant (2010), European Comision, [“Ovidius” University Constanta](#) in partnership with [Université de Nice- Sophia Antipolis](#);
- Erasmus Mobilty Grant (2009), European Comision, [“Ovidius” University Constanta](#) in partnership with [Université de Nice- Sophia Antipolis](#);
- Proiect de Cercetare-Dezvoltare Complex PC-D11-PT00-781/2005, [Metode combinatoriale, algebrice, topologice in algebra si geometrie](#), member, director : Prof.univ.dr. Nicolae Manolache, IMAR, Conf.univ.dr. Viviana Ene responsabil stiintific pentru Univ. Ovidius, partener unic in proiect. Proiectul se deruleaza in perioada octombrie 2005-septembrie 2008

- Research project, [Cooperare internationala in domeniul algebrei, geometriei si topologiei](#) , CIDAGT (contract 249-Cex-M3-249-2006), member, director prof.univ.dr. Dorin-Mihail Popescu
- Grant A CNCSIS 1075/2005 [Algebra computationala si aplicatii in geometrie si informatica](#), member, director de proiect Conf.univ.dr. Viviana Ene
- Proiect CERES Contract nr. 4-147/12.11.2004, ["Reprezentari si Omologie in Geometrie, Algebra si Fizica"](#), pe durata 12.11.2004 - 20.09.2006, member, responsabil de proiect Prof.univ.dr. Serban Basarab
- Grant A/Cod CNCSIS: 227/2001 [Algebra computationala. Aplicatii în studiul grupurilor si în geometrie](#) - Beneficiar: Ministerul Educatiei si Cercetarii- cercetator, member, director de proiect Prof.univ.dr. Mirela Stefanescu
- Grant A/Cod CNCSIS: 244 /2000 [Algebra computationala. Aspecte combinatorii.Utilizarea calculatorului în studiul grupurilor finite](#), Beneficiar: Ministerul Educatiei Nationale- D.G.S.C.S.U., cercetator, member, director de proiect Prof.univ.dr. Mirela Stefanescu
- Grant CNCSIS, 223/1999: [Algebra computationala. Aspecte combinatoriale. Baze Groebner](#), member, director de proiect Prof.univ.dr. Mirela Stefanescu
- Grant A\Cod CNCSU 117/1998, Contract 31-1998, [Metode omologice în algebra. Aplicatii în studiul algebrelor neasociative \(Lie, Jordan\). Aspecte computationale](#), Beneficiar: Ministerul Educatiei Nationale- D.G.S.C.S.U., Valoare contract: 13 milioane lei- cercetator, member, director de proiect Prof.univ.dr. Mirela Stefanescu

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### International grants:

- [Grant of Secretaria de Relaciones Exteriores- Oferta de becas del Gobierno de Mexico para extranjeros](#), Guanajuato, Mexico, September 7-14 2014;
- [Grant of Center of Mathematics of University of Notre Dame, USA](#)- International Mobility Grant of University of Notre Dame, USA, Thematic program on Motivic Invariants and Singularities at the Center of Mathematics at Notre Dame, 20 May-5 June 2013;
- [Grant of French National Research Agency \(ANR\) project GEOLMI](#) - International Mobility Grant of [Université de Pau, France](#), School on hyperplane arrangements and related topics, 10-16 June 2012, Pau, France;
- International Mobility Grant of [Université de Nice- Sophia Antipolis](#), workshop [Hyperplane Arrangements and Related Topics](#), Nice, France, March 2012;
- [Grant of Katholieke University of Leuven, Belgium](#), February 2012, Leuven, Belgium, Visiting Fellow, invited by [Professor Willem Veys](#)

- [ERC Advanced Grant 246903 NMNAG](#), **Luminy, France**, [Number Theory, Algebraic Geometry and Model Theory](#), conference in honour of Jan Denef, **Centre International de Rencontres Mathematiques, September 2011**;
- Grant of Centro di Ricerca Matematica Ennio di Giorgi, Pisa, Italy, [Configuration Spaces: Geometry, Combinatorics and Topology](#), May-June 2010;
- Grant of [Institute for Advanced Study](#) and [Princeton University](#), [p-adic Langlands Program](#), **Princeton, USA**, May 2010;
- [Junta de Castilla y Leon](#), [Programa de actividad investigadora I2Singacom](#), Grant of Universidad de Valladolid, [SINGACOM](#) research group, [YMIS10](#), Segovia, Spain, February 2010;
- [LIB60BER](#), Grant of University of Zaragoza, June 2009;
- [UNESCO, International Atomic Energy Agency \(IAEA\) and The Abdus Salam International Centre for Theoretical Physics \(ICTP\) Grant](#), Trieste, Italia, The *Abdus Salam* International Centre for Theoretical Physics, June – July 2009;
- [EPSRC Grant EP/G055408/1 School of Mathematics, University of Southampton, Southampton, UK](#), April 2009 (unused);
- [Grant of Katholieke University of Leuven, Belgium](#), February-March 2009, Leuven, Belgium, Visiting Fellow, invited by [Professor Willem Veys](#);
- [UNESCO, International Atomic Energy Agency \(IAEA\) and The Abdus Salam International Centre for Theoretical Physics \(ICTP\) Grant](#), Trieste, Italia, The *Abdus Salam* International Centre for Theoretical Physics, august-september 2008;
- [Marie Curie Training Courses Programme MSCF-CT-2006-045987 GROUPS and University of the Aegean \(Department of Mathematics\)](#), Anogia Academic Village, Greece, June 2008;
- CRM Fellowship, [Centre de Recerca Matematica](#), Bellaterra, Barcelona, Spain, May-June 2007;
- [CANT 2006](#), University of Liege, Belgia, Marie Curie Fellowship, Mai 2006;
- Marie Curie Fellowship, [The Foundation for Research and Technology-Hellas \(Institute of Applied and Computational Mathematics\) and University of Crete \(Department of Mathematics\)](#), Anogia Academic Village, Greece, July 2005;
- European Community Grant, **Cambridge**, Marea Britanie, [Isaac Newton Institute for Mathematical Sciences](#), March - April 2005;
- European Community Grant, [Seconda Università di Napoli, Ravello](#), Italy, May-June 2002.

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**University Career:**

- 2003-now: *University Lecturer*, [Ovidius University Constanta](#), Faculty of Mathematics and Computer Science, Department of Mathematics;
- 2001-2003: *Teaching Assistant*, [Ovidius University Constanta](#), Faculty of Mathematics and Computer Science, Department of Algebra and Geometry;
- 1998-2001: *Junior Teaching Assistant*, [Ovidius University Constanta](#), Faculty of Mathematics and Computer Science, Department of Algebra and Geometry;

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### **Member of Scientific Societies:**

- Member of American Mathematical Society;
- Member of Mathematical Scientific Society, Constanta Branch;
- Member of the Scientific and Cultural Association of Turkish - Tatars in Romania (AOSCTTR).
- Reviewer at Mathematical Reviews;
- Reviewer at Zentralblatt MATH;

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### **Teaching:**

- Denis Ibadula, [Linear Algebra. Lecture Notes](#)
- Denis Ibadula, Viviana Ene, [Fundamental Structures of Algebra](#)
- Denis Ibadula, George Carlig [Linear Algebra. Notes for seminar](#)
- Denis Ibadula, [Graph theory and Combinatorics. Lecture Notes](#)
- Denis Ibadula, [Algebra III. Notes for the seminary](#)
- Denis Ibadula, [Complements of mathematics I. Notes for the seminary](#)

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### **Led research seminars for students:**

- Denis Ibadula (in collaboration with prof. dr. Viviana Ene), [Seminar of Algebraic Statistics](#), 2011-2012 (first & second semester);

- Denis Ibadula (in collaboration with prof. dr. Viviana Ene), [Seminar of Algebraic Statistics](#), 2010-2011(second semester);
- Denis Ibadula (in collaboration with researcher dr. Anca Macinic from IMAR, Bucharest), [Arrangements of Hyperplanes](#) (II) 2010-2011, First and Second Semester;
- Denis Ibadula, [Arrangements of Hyperplanes](#), 2009-2010, First and Second Semester;
- Denis Ibadula, [Gauss and Jacobi Sums](#), 2008-2009, First and Second Semester;
- Denis Ibadula, [Polynomials and polynomial equations \(I\)](#), 2007-2008 (First Semester);
- Denis Ibadula, [Polynomials and polynomial equations \(II\)](#), 2007-2008 (Second Semester);
- Denis Ibadula, [Algebra research seminar for students](#), 2007-2008 (Second Semester);
- Denis Ibadula, [Algebra seminar for students on Galois Theory](#), 2006-2007 (Second Semester)

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### **Supervised Graduated Students:**

- Arsu Daniela (2005), Bica Raluca (2005), Omer Elvin (2006), Munteanu Anca (2006), Irina Evelina (2006), Abdula Sibel (2006), Stanciu Adrian (2007), Stere Mihaela (2007), Tititica Iulia-Adela (2008), Mesu Corina (2008), Mihalcea Diana (2008), Gheorge Nicolae (2008), Radu Corneliu (2008); Brezeanu Stefan (2009), Rotariu Ionela (2009), Georgescu Cristina (2009); Nae Raluca (2010), Ion Andreea (2010), Bugiulescu Tudorel (2010); Hristache Andrada (2011); Crismariu Adina (2011); Menisa Eilan (2011); Blebea Violeta (2011); Bozu Elena (2012); Chesnoi Cristina (2012); Crangus Mirela (2012); Robe Lavinia (2012); Rusu Iulia (2012); Simon Mihaela (2012); Banica Alexandra (2013); Blebea Mihaela (2013); Covaciu Livia (2013); Gemil Ilden (2013); Puia Alina (2014); Bahacencu Alexandra (2014);
- Adunaroaia Ionela (2008); Dedu Ionel (2010); Chesnoi Cristina (2011); Fulga Nicoleta (2012); Ivanov Madalina Violeta (2013); Alexandru Bracaci (2014);

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### **Awards:**

- 2013: [Seref Belgesi](#) awarded by [The Democratic Union of Tatar and Turkish Musliman Minority from Romania](#);
- 2012: [The prize for Excellence in Education](#) awarded by the ["Anayurt" Foundation](#);
- 2012: [Seref Belgesi](#) awarded by [The Democratic Union of Tatar and Turkish Musliman Minority from Romania](#);



- 2012: [\*The prize for Excellence Quality of Didactic Activity\*](#) awarded by Faculty of Mathematics and Computer Science of “Ovidius” University Constanta;
- 2011: [\*The Prize for Major Impact in Education\*](#), awarded by [The Democratic Union of Tatar and Turkish Musluman Minority from Romania](#);
- 2011: [\*The prize for Excellency in Education\*](#), awarded by [The Democratic Union of Turkish Minority from Romania](#);
- 2011: **[The 1<sup>st</sup> PRIZE in Education for The BEST ROMANIAN UNIVERSITY TEACHER in the year 2011](#)**, awarded in the frame of [Prizes in Education, Dinu Patriciu Foundation](#);
- 2007: [\*The prize for Excellence Quality of Didactic Activity\*](#) awarded by Faculty of Mathematics and Computer Science of “Ovidius” University Constanta;
- 2006: [\*The prize for Excellence in Scientific Research; Category: Fundamental Mathematics\*](#) awarded by Faculty of Mathematics and Computer Science of “Ovidius” University Constanta;
- 2006: [\*The prize for Excellence Quality of Didactic Activity\*](#) awarded by Faculty of Mathematics and Computer Science of “Ovidius” University Constanta;

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