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Facultatea de Matematica și Informatica
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Curriculum Vitae

UNIVERSITATEA OVIDIUS CONSTANȚA
Bd. Mamaia nr. 124
900527 Constanța

Prof.univ.dr. Wladimir-Georges Boskoff

DATE PERSONALE

E-mail: boskoff@univ-ovidius.ro
Data nașterii: 26.10.1958

FORMARE UNIVERSITARĂ ȘI POSTUNIVERSITARĂ – SPECIALIZARI S.Th.

- Formare universitară în cadrul Facultății de Matematică a Universității București 1978-1982
- Studii doctorale la Universitatea București 1989-1994

EXPERIENȚĂ PROFESIONALĂ

- Asistent Universitar la Facultatea de Matematică a Universității Ovidius 1990-1991
- Lector Universitar la Facultatea de Matematică a Universității Ovidius 1991-1996
- Conferențiar Universitar la Facultatea de Matematică a Universității Ovidius 1996-2004
- Profesor Universitar la Facultatea de Matematică a Universității Ovidius 2004-

CARTI PUBLICATE

POZITIA LA UNIVERSITATEA OVIDIUS

- Secretar Stiintific al Facultatii de Matematica a Universitatii Ovidius 1996-1997
- Director la Centrul ID-IFR al Universitatii Ovidius 1999-2004
- Decan, Facultatea de Matematica si Informatica 2004-2012, 2016-2020

Cursuri predate la Universitatea Ovidius:

Geometrie Sintetica, Analitica si Proiectiva
Geometrie Diferentiala-Curbe si Suprafete in Spatiul Euclidian
Geometrie Riemanniana
Differential Geometry-Curves and Surfaces
Riemannian Geometry
Complemente de Geometrie
Complements of Mathematics
Analiza pe Varietati
Algebra Lineara, Geometrie Analitica si Ecuatii Diferentiale
Fundamentele Matematicii
Metodica Predarii Matematicii
Tehnologii Multimedia in predarea Geometriei
Varietati Diferentiabile si Aplicatii
Control Optimal cu Aplicatii in Economie
Mecanica
Astronomie

DIVERSE

PREMII, DIPLOME, MEDALII, MEMBERSHIP

- Presedinte al SSMR-Constanta 2006-2012
- Vicepresedinte al Societatii de Stiinte Matematice din Romania 2008-2017
- Prim Vicepresedinte al Societatii de Stiinte Matematice din Romania 2017-2022
- *Premiul Gheorghe Titeica al Academiei Romane*
acordat pentru activitatea stiintifica din anul 1996 1998
- **Premiul Salonului National de Carte –Sectiunea Carte Stiintifica (pentru monografia Varietati cu structura metrica Barbilian, ExPonto, Constanta 2002)**

BURSA NATIONALA

1. Bursa CopyRo 2006-2007 pentru cercetare in domeniul geometriei cu proiectul **FUNDAMENTELE GEOMETRIEI- O VIZIUNE MODERNĂ; REZULTATE NOI, REMARCABILE CE PROVIN DIN CONTRIBUȚIA ȘCOLII ROMÂNEȘTI DE GEOMETRIE** –bursa s-a acordat pentru lucrarile 1,2,3,4,7,8,9,10 din prezenta lista si pentru cartea *Discovering Geometry: An axiomatic approach;*

PREMIU NATIONAL

2. **Premiul Fundatiei Sigma** pentru cea mai buna problema propusa la Olimpiada de Matematica, faza nationala, cls.X-a, 2009.

3. **Premiul pentru Excelenta in Educatie 2017, MEN**, pentru sustinerea performantelor scolare bazate pe participarea la Olimpiade Internationale a elevului Mihai Iliant, CNMB.
4. **Premiul pentru Excelenta in Educatie 2018, MEN**, pentru sustinerea performantelor scolare bazate pe participarea la Olimpiade Internationale a elevului Alexandru Garban, CNMB.

CARTI PUBLICATE:

[1] W.-G. Boskoff, S. Capozziello, *A Mathematical Journey to Relativity. Deriving Special and General Relativity with Basic Mathematics*, Unitext for Physics, **Springer (2020), Berlin**.

[2] W.-G. Boskoff, S. Capozziello, *A Mathematical Journey to Quantum Mechanics*, Unitext for Physics, **Springer (2021), Berlin**.

MONOGRAFII

1. Hyperbolic Geometry and Barbilian Spaces, Hadronic Press Advanced Monographs in Mathematics, (1996), HP Inc. FL. USA

2. Discovering Geometry: An Axiomatic Approach, ISBN:978-973-755-668-4, Ed.MatrixRom, 2011

ARTICOLE ISI PUBLICATE:

[1] W.G. Boskoff, *A simple Gödel's type universe*, **Int. J. Geom. Meth. Mod. Phys.** (2023) 2350018.

[2] W.G. Boskoff, B.D. Suceava, *Are there any natural physical interpretations for some elementary inequalities?*, **An. Stiint.Univ. Ovidius Constanta Ser. Mat.** 30 (3) (2022), 51-65.

[2] W.G. Boskoff, *Constant Gaussian curvature, FLRW conditions and a universe without matter*, **Int. J. Geom. Meth. Mod. Phys.** 19 (2022) 2250171

[3] W.G. Boskoff, S. Capozziello, *Cosmological constant and AdS spacetimes from Minkowski spheres*, **Int. J. Geom. Meth. Mod. Phys.** 8, (2022) 2250114.

[4] W.G. Boskoff, S. Capozziello, *Recovering the Cosmological Constant from Affine Geometry*, **Int. J. Geom. Meth. Mod. Phys.** 16, (2019) 1950161.

[5] W.G. Boskoff, M. Crasmareanu, *A Rosen-type bi-metric universe and its physical properties*, **Int. J. Geom. Meth. Mod. Phys.** 15 (2018)

[6] W.G. Boskoff, B.D. Suceava, *Geometries induced by logarithmic oscillations as examples of Gromov hyperbolic spaces*, **Bull. Malaysian Math. Sciences**, 40 (2017), 707-733

- [7] W. G. Boskoff, M. Crasmareanu and L.-I. Piscoran, *Tzitzeica equations and Tzitzeica surfaces in separable coordinate systems and the Ricci flow tensor field*, **Carpathian J. Math.** 33 (2) (2017), 141-151.
- [8] W. Boskoff, B.D. Suceava, *A Barbilian Type Semi-Distance, the Stabilizing Distance and Gromov Hyperbolic Spaces*, **Analele Univ. Al.I.Cuza-Seria Matematica**, Vol. LXVI, f. 2,(2016) 371-379
- [9] W. G. Boskoff, B.D. Suceava, *Barbilian Spaces: the History of a Geometric Idea*, **Historia Mathematica**; vol.34, no.2, pp. 221-224 (2007).
- [10] W. G. Boskoff, B.D. Suceava, M.Ciuca, *Distances obtained by Barbilian's metrization procedure*, **Houston J. Math.** 33, no.3, pp.709-717 (2007).
- [11] W.G. Boskoff, B.D.Suceava, *Barbilian metrization procedure in the plane yields either Riemannian or Lagrange Generalized metrics*, **Czechoslovak Mathematical Journal**, Vol. 58, No. 4, pp. 1059-1068, (2008).
- [12] Al.Agnew, A.Bobe, W.G. Boskoff, B.D. Suceava, *Gheorghe Tzitzeica and the origins of affine differential geometry*, **Historia Mathematica**,vol.36, no.2,(2009),161-170.
- [13] W.G. Boskoff, B.D.Suceava, M.Ciuca, *Revisiting the foundations of Barbilian's metrization procedure*, **Differential Geometry and its Applications**, 29 (2011), 577–589.
- [14] A. Bobe, W.G. Boskoff, M.G. Ciuca, *Tzitzeica-type centro-affine invariants in Minkowski spaces*, **An.St.Univ.Ovidius Constanta**, vol.20, (2), 2012, 21-28.
- [15] W.G.Boskoff, S.Barcanescu, A.Bobe ,*On the non-genericTzitzeica-Johnson's configuration* **An.St.Univ.Ovidius Constanta**, vol.20, (2), 2012, 27-34.

LUCRARI STIINTIFICE PUBLICATE IN REVISTE INTERNATIONALE

1. W. Boskoff, B.D. Suceava, *When is Euler's Line Parallel to a Side of a Triangle?*, **College Math. Journal**, Vol. 35(4) (2004), 303-307. Baza de date : J-Stor
2. W. Boskoff, B.D. Suceava, *Applications of Homogenous functions to geometric inequalities and identities in the Euclidean plane*, **Forum Geometricorum**, Vol.5 (1) (2005), 70-75.
Baza de date : Mathematical Reviews
3. W. Boskoff, B.D. Suceava, *An example of a projectivity characterized by a Pythagorean relation*, **Forum Geometricorum**, 6 (2006), 187-190.
Baza de date : Mathematical Reviews
4. W.G.Boskoff, B.D. Suceava, *A Class of Applications of AM-GM Inequality (From a 2004 Putnam Competition Problem to Lalescu's Sequence)*, **Australian Math. Society Gazette**, 33 (2006), No.1, 51-56.
Baza de date : Mathematical Reviews

5. W.G.Boskoff, L.Homentcovschi, B.D.Suceava, *Some theorems about perpendicular lines proved with an extension of Pithagora's theorem*, **The Mathematical Gazette**, (London), **93**, 1, (2009), 45-52.
Baza de date: J-Stor
6. W.G.Boskoff, B.D.Suceava, *A projective characterization of cyclicity*, **Beitrage zur Algebra und Geometrie**, **49**, No. 1, (2008), 195-203.
Baza de date : Scopus
7. Al.Agnew, A..Bobe, W.G.Boskoff, L.Homentcovschi, B.D.Suceavă, *The Equation of Euler's Line Yields a Tzitzeica Surface*, **Elemente der Mathematik**, **64** (2009), 1-10.
Baza de date : Zentralblatt
8. W.G.Boskoff, S.Barcanescu, *On the Tzitzeica-Johnson configuration*, **Journal of Geometry**, 96 (2009), 57-61.
Baza de date : Scopus
9. W.G.Boskoff, B.D. Suceava, A.F.Agnew, A.Bobe, *3D Affine Differential Geometry and symbolic computation: the curves and surfaces of G. Tzitzeica*, **The Mathematica Journal**, 12, (2010), 1-18.
Baza de date: Wolfram.com
10. W.G.Boskoff, H. Odom, B.Suceava, *An elementary view of Gromov hyperbolic spaces*, **Forum Geometricorum**, **12**, (2012), 283-286.
11. W.G.Boskoff, B.D.Suceava, *A metric induced by the geometric interpretation of Rolle's theorem*, **An.St.Univ.Ovidius Constanta**, vol.15, (1), 2007, 1-9.
12. W.G. Boskoff, L.Homentcovschi, B.Suceava, [Gossard's perspector and projective consequences.](#) **Forum Geometricorum** **13** (2013), 169-184.
Baza de date : Zentralblatt

REVISTE DIN TARA

13. W. Boskoff, B.D. Suceava, *The History of Barbilian's Metrization Procedure and Barbilian Spaces*, **Mem.Sect.Stiint.Acad.Romana**, vol. **28**, (2005), 7-16(2007).
Baza de date: Mathematical Reviews
14. W.G. Boskoff, B.D. Suceava, A.Vajiac, *An exploration of Hilbert's neutral geometry*, **Gazeta Matematica A**, **26**, No.1/2008, 1-23.
Baza de date: Zentralblatt fur Didaktik
15. W.G. Boskoff, *Behind an elementary problem of geometry*, **Gazeta Matematica A**, **26**, No.2/2008, 126-127.
Baza de date: Zentralblatt fur Didaktik
16. A. Bobe, W.G. Boskoff, *Clifford Chain for equal ellipses*, **Gazeta Matematica A**, **27**, No.1/2009, 17-33.
Baza de date: Zentralblatt fur Didaktik
17. W.G. Boskoff, L. Homentcovschi, *A problem suggested by the Atiyah conjecture*, **Gazeta Matematica A**, vol.28, nr.1-2, (2010), 30-33.
Baza de date: Zentralblatt fur Didaktik
18. W.G. Boskoff, C. Ghinea, *Despre vehicule cu roti poligoane regulate*, **Gazeta Matematica A**, **28**, No.1-2, (2010), 33-38.
Baza de date: Zentralblatt fur Didaktik
19. W.G. Boskoff, V. Dao, B. Suceava, *From Felix Klein's Erlangen program to Secondary Game: Dan Barbilian's poetry and its connection with Foundations of*

- Geometry, Mem.Sect.Stiint.Acad.Romana*, vol. **30**, 17-33 (2009).
Baza de date: Mathematical Reviews
20. W.G. Boskoff, M.G. Ciuca, *O trigonometrie numerica asociata geometriei Minkowski*, **Didactica Mathematica**, vol.27(2009),nr.1-2, 132-157
Baza de date: Zentralblatt fur Didaktik
21. W.G. Boskoff, B. Suceava "Asupra problemei nr.10710 din *American Mathematical Monthly*" **Gazeta Matematica B**, vol.112, nr.11, (2007), 563-565
22. W.G. Boskoff, L. Homentcovschi, *Rezolvarea unei probleme in cadrul geometriei absolute*, **Gazeta Matematica B**, **114** (2009), nr.2, 68-70.
23. W.G. Boskoff, *O lectie de teoria invariantilor*, **Didactica Matematica, I**, (1), 5-8, 2011.
24. W.G. Boskoff, *Experimente care au revolutionat fizica*, **Didactica Matematica, I**, (1), 28-31, 2011.
25. W.G. Boskoff, L. Homentcovschi, *Atiyah's conjecture revisited*, **International Journal of Geometry**, Vol. 2 (2013), No. 1, 44 – 46

CONFERINTE-WORKSHOPURI ORGANIZATE

1. The 10th International Conference of TENSOR Society on Differential Geometry & Its Applications and Mathematical Foundations of Information Sciences & Its Applications, Constanța, 3-7 septembrie 2008 (în colaborare cu Societatea TENSOR din Japonia și SSMR).-organizator

<http://www.univ-ovidius.ro/math/tensor/2008/>

2. Workshop-ul Invatamintul matematic universitar Realități și Perspective (în colaborare cu Facultatea de Matematică și Informatică din București și SSMR), 31 Mai-2 Iunie 2007-organizator

<http://math.univ-ovidius.ro/workshop/Altfel/01/>

3. The 10th International Workshop on Differential Geometry and its Applications Constanța, 26 - 30 august 2011 (în colaborare cu IMAR).-organizator

<http://math.univ-ovidius.ro/workshop/2011/DGA10/>

Granturi obtinute si dezvoltate

1. Grant World Bank nr6359/1997 PIP obtinut in 1997 la CNFIS Bucuresti. Titlu: Centrul Zonal de Formare Continua. Suma : 25.000 \$
(Director cu implementarea:W.G. Boskoff)

2. Grant World Bank nr.41904/4.11.99 cod 57 obtinut in 1999 la CNFIS Bucuresti. Titlu: Pregatirea initiala si continua a profesorilor. Suma: 95.741 \$
(Director cu implementarea: W.G. Boskoff)
3. Grant Routes Francophones (ref 0006002/2000) obtinut in cooperare cu ENIB Brest si Universite Mohamed IV Maroc. Titlu: Virtual Environments for Children . Suma pentru Universitatea Ovidius: 104.325 FF (Director: W.G. Boskoff)
4. Grant Routes Francophones obtinut in colaborare cu Universitatea din Varna: Titlu: - REFPEd. Tehnici de producere a materialelor pentru invatamantul la distanta
Director: W.G. Boskoff , Derulare 2003-2004, Suma pentru Universitatea Ovidius: 12.874 Eu

Prin Grantul 41904/4.11.99 s-a dezvoltat o Scoala de Aplicatie care functioneaza cu 200 de elevi in Constanta pentru pregatirea metodică a absolventilor (matematica)
Prin acelasi Grant s-a intiat Masteratul de Didactica Matematica pentru catedra de Algebra Geometrie a Facultatii de Matematica-Informatica.

5. **IMPROVING MATHEMATICS EDUCATION, BENEFICIAR:** Societatea de Științe Matematice din România, Finantator: Romanian American Foundation, **Durata:** 36 luni (01 Martie 2011- 28 Februarie 2014), **Buget total:** \$872.729, calitate: Expert
6. *“Oportunitati pentru o cariera didactica de calitate printr-un program national de formare continua a profesorilor de matematica din invatamantul preuniversitar”*.
Beneficiar: Minister Educației, Cercetării, Tineretului și Sportului; **Cod contract:** POSDRU/87/1.3/S/62882 - **Axa prioritară:** 1. „Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere”; **Domeniul major de intervenție:** 1.3 „Dezvoltarea resurselor umane în educație și formare profesională”. Calitate: Expert cheie
7. Grant- *Facultatea Anului 2009-* aplicatie castigatoare la Gala Premiilor in Educatie organizata de Fundatia Dinu Patriciu; suma obtinuta 10.000Eu

Membru în colectivele de redacție ale unor reviste recunoscute

1. In străinătate ----- TENSOR, published by THE TENSOR SOCIETY, CHIGASAKI, JAPAN, ISSN 0040-3504

2. In țară -----GAZETA MATEMATICA B, SSMR, ISSN 1584-9333
.....DIDACTICA MATEMATICA, SSMR, ISSN 2247-5060
..... GAZETA MATEMATICA A, SSMR, ISSN 1010-9943

CONFERENCE STIINTIFICE INTERNATIONALE-SELECTIE

1. *Sur les espaces Barbilian*, Conférence, Université de Bas-Rhin, 7 janvier 1994, Mulhouse, France.
2. *The connection between Barbilian and Hadamard Spaces*, International Workshop on Differential Geometry, Global Analysis and Lie Algebras, 15-17 December 1994, Aristotle University of Thessaloniki, Greece.
3. *I-derivable curves and Lagrange Spaces*, Institute for Basic Research, 14-17 August 1995, Monteroduni, Molise, Italy.
4. *From Classical Geometries to Lagrange Spaces*, International Workshop on Differential Geometry, Global Analysis and Lie Algebras, 23-26 October 1996, Aristotle University of Thessaloniki, Greece.
5. *Special circles and geodesics in Lagrange Spaces*, International Workshop on Differential Geometry, Global Analysis and Lie Algebras, 23-25 June 1997, Aristotle University of Thessaloniki, Greece.
6. *About some Special Metric Spaces*, invited speaker, 15-20 Sept. 1998 Dept. of Mathematics, Faculty of Natural Sciences, Northern Iowa University, United States of America.
7. *Some geometric aspects of the inclusion $R^2 \subseteq C^2 \subseteq PC^2$* , invited speaker, 21-29 April 1999, Dept. of Mathematics, Faculty of Natural Sciences, Northern Iowa University, United States of America.
8. *From Hyperbolic Geometry to Generalized Lagrange Spaces*, invited speaker, 12-16 Mars 2000, Institute of Mathematics, University Austral, Valdivia, Chile.
9. *The Geometry of the triangle from the projective point of view*, invited speaker, 17-25 Mars 2000, Department of Mathematics, Faculty of Natural Sciences, Magellan University, Punta Arenas, Chile.
10. *Hyperbolic Geometry and Barbilian Spaces*, invited speaker in the Seminar of Differential Geometry, 27-31 Mars 2001, Department of Mathematics, Michigan State University, East Lansing, MI, USA.
11. *Strong inequalities for plane-normal curvature* (colab. C. Costara), Workshop on Global Analysis, Differential Geometry and Lie Algebras, 27 June-1 July 2001, Aristotle University of Thessaloniki, Greece.
12. *Some Connections between Advanced Calculus and Euclidean Geometry*, invited speaker in the Seminar of Mathematics, 10-16 Sept. 2001, National University, San Diego, CA, USA.

13. *Two isometric models of Lobachevski's geometry*, invited professor in the Seminar of Geometry, Universite de Bretagne Occidentale, 3 May 2002, France.
14. *Lagrange's geometries induced by the shape of curves*, invited professor in the Seminar of Geometry, Universite de Bretagne Occidentale, 10 May 2002, France.
15. *Two isometric models of Lobachevski's geometry*, invited professor in the Seminar of Geometry, California State University, Fullerton, 9 October 2002, CA, USA.
16. *Beyond Geometry*, invited professor in the Seminar of Geometry, California State University, Fullerton, 10 October 2002, CA, USA.
17. *Contest Problems*, invited professor in the Seminar of Geometry, California State University, Fullerton, 11 October 2002, CA, USA.
18. *From Euler's Line to Gossard Perspector*, Whittier College, Colloquium, October 28, 2005.
19. *Barbilian's viewpoint on Tzitzeica-Johnson configuration*, The Fifth Conference of the Balkan Society of Geometers, Constantza, Romania, August 29.
20. *Barbilian Spaces: The History*, AMS Special Session on History of Mathematics, Western Section Conference, Santa Barbara, April 18, 2005.
21. *New developments on Barbilian's metrization procedure*, The 9th International Conference of Tensor Society on Differential Geometry, Informatics and their Applications, September 4-8, 2006, Sapporo, Japan.
22. *The affine characteristic of De Sitter spacetime and consequences*, Geometric Foundation of Gravity, Tartu, Estonia, 16 -21 of June 2019, <http://hexagon.fi.tartu.ee/~geomgrav2019/schedule.php>

CONFERINTE NATIONALE SI INTERNATIONALE SUSTINUTE IN TARA

1. Conferinta nationala SSMR 2011, Ploiesti, 19-21 Oct.
Wladimir-Georges Boskoff: Teorema lui Morley
Conferinta nationala SSMR 2012, Botosani, 30 Nov-2 Dec.
Wladimir-Georges Boskoff: Despre Gromov hiperbolicitate
2. Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, June 27 - 30, 2013, Alba Iulia, Romania, University of Alba Iulia
Wladimir-Georges Boskoff: *Geometries Induced by Logarithmic Oscillations as Examples of Gromov Hyperbolic Spaces*
3. The VIII-th International Conference "Differential Geometry and Dynamical Systems"

(DGDS-2014) 1 - 4 September 2014, organized by UPB in Mangalia, Romania

Wladimir-Georges Boskoff: Gromov hyperbolicity

4. **Conferinta nationala SSMR 2014, 24-26 Oct, Iasi,**
Wladimir-Georges Boskoff: Asupra unor aspect matematice ale teoriei relativitatii restranse
5. **Conferinta nationala SSMR 2016, 10-12 Oct, Baia Mare,**
Wladimir-Georges Boskoff: Curbarea razelor de lumina in camp gravitational
6. **Conferinta nationala de Didactica Matematica, 18-20 Mai 2018, Cavnic,**
Wladimir-Georges Boskoff: Geometrii neeuclidiene si aspecte fizice
7. **Conferinta nationala SSMR 2018, 25-27 Mai, Corabia,**
Wladimir-Georges Boskoff: Suprafete Titeica
8. **Conferinta nationala SSMR 2019, 11-13 Oct, Pitesti,**
Wladimir-Georges Boskoff: Geometrii Neeuclidiene si Aplicatii in Fizica