

PERSONAL INFORMATION

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[https://scholar.google.com/citations?hl=en&user=zEkdHYAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=zEkdHYAAAAJ&view_op=list_works&sortby=pubdate)

WORK EXPERIENCE

- 2023 Habilitation in Mathematics, Transilvania University of Brasov, Romania
- 2014 - Associate Professor  
Dept. of Mathematics and Computer Science, Transilvania University of Brasov, Romania
- 2010-2013 Post-doctoral research fellow  
Dept. of Mathematics and Computer Science, Transilvania University of Brasov, Romania
- 2003-2014 Assistant Professor  
Dept. of Mathematics and Computer Science, Transilvania University of Brasov, Romania
- 2000-2003 Teaching Assistant  
Dept. of Mathematics and Computer Science, Transilvania University of Brasov, Romania
- 1998-2000 Junior Teaching Assistant  
Dept. of Mathematics and Computer Science, Transilvania University of Brasov, Romania

EDUCATION AND TRAINING

- 1998-2003 PhD in Mathematics, Babes-Bolyai University, Cluj-Napoca, Romania
- 1997-1998 Master's degree in Mathematical Modeling and Software products,  
Transilvania University of Brasov, Romania (graduated with 10/10)
- 1993-1997 Bachelor's degree in Mathematics  
Transilvania University of Brasov, Romania (graduated with 10/10)

PERSONAL SKILLS

- Research topics and interests
- Differential geometry, calculus of variations on manifolds
  - Extended gravity theories
- Mother tongue(s)
- Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

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|------------------------------------|---|
| Communication skills               | <ul style="list-style-type: none"> <li>▪ good communication skills acquired during a more than 20-year teaching activity and during scientific team work</li> <li>▪ team spirit, positive and proactive attitude, experience with international collaborations</li> </ul> |
| Organisational / managerial skills | <ul style="list-style-type: none"> <li>• Experience in organizing scientific events (see <i>detailed list below</i>).</li> <li>• Member of the Management Committee of two e-COST Actions (CA15117 and CA18108).</li> </ul>   |
| Computer skills                    | <ul style="list-style-type: none"> <li>▪ Mathematical software (Maple), scientific text editing</li> </ul>  |
| Driving licence                    | <ul style="list-style-type: none"> <li>▪ B</li> </ul>   |

 ADDITIONAL INFORMATION
 

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|------------------------------|---|
| Publications                 | <ul style="list-style-type: none"> <li>• 7 scientific books and book chapters</li> <li>• 50 papers published in peer-reviewed journals</li> <li>• Guest Editor of a special issue of the International Journal of Geometric Methods in Modern Physics (Vol 16 supp. 02, 2019).</li> </ul>   |
| Invited talks (last 5 years) | <ul style="list-style-type: none"> <li>• 25.10.2023, <i>Variational completion of differential equations and its applications to gravity theories</i>, London-Oldenburg Relativity Seminar, University College London &amp; Univ. din Oldenburg, Germania (online).</li> <li>• 14.06.2023, <i>Spatial spherical symmetry and a Birkhoff-type theorem in Berwald spacetimes</i>, lucrare invitata la: <i>Colloquium on Finsler Geometry and its Applications</i>, 12-16.06.2023, Debrecen, Ungaria.</li> <li>• 12.01.2023, <i>The kinetic gas universe</i>, Star-UBB Seminar Series in Gravitation, Cosmology and Astrophysics, UBB Cluj (online).</li> <li>• June 1, 2022, <i>On the closure property of Lepage equivalents of Lagrangians</i>, Miniworkshop "Geometric methods in physics", University of Turin, Italy.</li> <li>• April 22, 2022, <i>Inequalities from Lorentz-Finsler norms</i>, Geometry seminar of the Dep. of Mathematics, California State University, Fullerton, USA (online).</li> <li>• May 29, 2021, <i>Cosmological Finsler Spacetimes</i>, 4<sup>th</sup> IUCSS Summer School and Workshop on the Lorentz- and CPT-violating Standard-Model Extension, Indiana University, Bloomington, USA (online).</li> <li>• November 25, 2020, <i>Variational completion of differential equations and modified theories of gravity</i>, Center of Applied Space Technology and Microgravity, University of Bremen, Germany (online).</li> <li>• March 2020, <i>Mathematical foundations for a Finsler extension of Einstein gravity</i>, University of Murcia, Spain, Faculty of Mathematics.</li> <li>• February 2020, <i>Variational completion of differential equations</i>, Institute of Physics, University of Tartu, Estonia.</li> <li>• January 2020, <i>Mathematical foundations for a Finsler extension of Einstein gravity</i>, 1st Dutch Mathematical Relativity Day, Radboud University, Nijmegen, the Netherlands.</li> <li>• October 2019: <i>The why and how of Finsler field theory</i>, 4<sup>th</sup> COST CA15117 CANTATA Meeting, Tuzla, Bosnia-Herzegovina.</li> <li>• January 2019: <i>Variational problems in Finsler spacetimes</i>, Meeting on Lorentz-Finsler Geometry and Applications, University of Granada, Spain.</li> </ul> |
| Grants and projects          | <ul style="list-style-type: none"> <li>• e-COST Action CA21136, <i>Addressing observational tensions in cosmology with systematics and fundamental physics (CosmoVerse)</i>, 2022-2026, (MC member)</li> <li>• German Academic Exchange Service (DAAD) grant no. 91808984, (program: Research Stays for University Academics and Scientists, 2021)</li> <li>• e-COST Action CA18108, <i>Quantum Gravity in the Multimessenger Approach</i>, 2019-2023, (MC member)</li> <li>• e-COST Action CA15117, <i>Cosmology and Astrophysics Network for Theoretical Advances and Training Actions (CANTATA)</i>, 2017-2020 (MC member).</li> </ul>   |

- Three *Transilvania* University Research Grants in: 2013, 2016, 2018.
  - *Post-doctoral fellowships for sustainable development* POSTDOC-DD, contract no. POSDRU/89/1.5/S/59323, Romania (June 2010 - May 2013) (*post-doctoral researcher*).
  - Research Contract no. 5/5.02.2008 between the Romanian Academy and *Politehnica* University of Bucharest (*team member*).
  - Research Contract no. 3/3.06.2009 between the Romanian Academy and *Politehnica* University of Bucharest (*team member*).
  - CNCSIS AT Grant (Romanian Ministry of Education) no.55/2006, 2006-2007 (*team member*).
- Conference organizing
- 23rd *International Summer School of Global Analysis and Applications*, 20-24.08.2018, Brasov, Romania (*co-Chair of the Organizing Committee*)
  - 2 editions of the *International Conference on Mathematics and Computer Science (MACOS)* Braşov, Romania: 2014, 2016 (*Member of the Organizing Committee*);
  - 3 editions of the *International Conference Finsler Extensions of Relativity Theory*: Brasov, 2011; Moscow, Rusia, 2012; Debrecen, Hungary, 2013 (*Member of the Organizing Committee*);
- Editorial Board membership
- *International Journal of Geometrical Methods in Modern Physics*, ISSN 0219-8878.
  - *Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics*, ISSN 20652151.
- Reviewer activity
- *International Journal of Geometrical Methods in Modern Physics*, ISSN 0219-8878.
  - *Classical and Quantum Gravity*, ISSN 0264-9381.
  - *Universe*, ISSN 2218-1997
  - *Nonlinear Analysis: Real World Applications*, ISSN: 1468-1218.
  - *International Journal of Modern Physics A*, ISSN: 0217-751X.
  - *Journal of Mathematical Analysis and Applications*, ISSN: 0022-247X.
  - *General Relativity and Gravitation*, 0001-7701.
  - *Journal of the Physical Society of Japan*, 0031-9015.
  - *Journal of Finsler Geometry and Applications*, 2783-0500.
  - *Journal of Geometry (Springer)*, ISSN: 1420-8997.
  - *Bulletin of "Transilvania" University of Brasov, Series III, Mathematics. Informatics. Physics*, ISSN 2065-216X.
  - *Differential Geometry – Dynamical Systems*, ISSN 1454-511X.
  - *Acta Math. Univ. Comenianae*, ISSN 0862-9544.
  - *The Korean Journal of Mathematics*, ISSN: 2288-1433.
  - *Analele ştiinţifice ale Universităţii „Alexandru Ioan Cuza”, Iaşi*, ISSN 1221-8421.
  - *Symmetry: Culture and Science*, ISSN 2226-1877.
- Professional organization membership
- *Lepage Research Institute, Presov, Slovakia*, <http://www.lepageri.eu/>.