

CURRICULUM VITAE

1. Last name: **Neagu**

2. First name: **Mircea**

3. Place of birth: **Braşov, Romania**

4. Nationality: **Romanian**

5. Education:

University/postuniversity/doctorate

Institution	University of Bucharest, Faculty of Mathematics	University of Bucharest, Faculty of Mathematics	Polytechnic University of Bucharest
Period: since (year) till (year)	1991 - 1996	1996 - 1997	1997 - 2001
Diplomas	Diploma of Bachelor (Mathematics)	Diploma of Magister (Geometry)	Diploma of Doctor (Mathematics)

6. Didactical and professional experience

Position	Ph.D. Student	Substitute Assistant Professor Doctor	Assistant Professor Doctor	Lecturer Doctor	Associate Professor Doctor
Period	1997 - 2001	2001 - 2002	2002 - 2004	2004 - 2014	2014 - present
Institution	Polytechnic University of Bucharest	Polytechnic University of Bucharest	Transilvania University of Braşov	Transilvania University of Braşov	Transilvania University of Braşov
Place	Bucharest	Bucharest	Braşov	Braşov	Braşov

7. Current affiliation

Transilvania University of Braşov, Romania
Department of Mathematics and Computer Science

8. Known foreign languages: **English** (medium) și **French** (medium)

9. Papers (last five years)

9.1. Monographs

1. A. Ionescu, A. Friedl, M. Neagu: *“Curves and Surfaces”*, Transilvania University Press, Braşov, Romania, 2019.
2. E. Popovici-Popescu, M. Neagu: *“Linear Algebra and Analytic Geometry in Space”*, Transilvania University Press, Braşov, Romania, 2020.

3. M. Neagu, A. Oană: "Dual Jet Geometrization for Time-Dependent Hamiltonians and Applications", Synthesis Lectures on Mathematics & Statistics. Springer, Cham, Switzerland, 2022.

9.2. Research papers

1. M. Neagu, "Riemann-Lagrange geometry for starfish/coral dynamical system", Applied Sciences, Vol. **22** (2020), 181-188.
2. M. Neagu, A. Oană: "Dual jet geometrical objects of momenta in the time-dependent Hamilton geometry", "Vasile Alecsandri" University of Bacau, Faculty of Sciences, Scientific Studies and Research. Series Mathematics and Informatics, Vol. **30**, No. **2** (2020), 153-164.
3. M. Neagu: "A distinguished geometry perspective on multi-time affine quadratic Lagrangians", Applied Sciences, Vol. **23** (2021), 81-86.
4. A. Oană, M. Neagu: "On dual jet N -linear connections in the time-dependent Hamilton geometry", Annals of the University of Craiova, Mathematics and Computer Science Series, Vol. **48(1)** (2021), 98-111.
5. M. Neagu, N. Krylova, E. Ovsyuk, V. Red'kov: "Optics in anisotropic inhomogeneous media and Lagrange geometry", International Journal of Geometric Methods in Modern Physics, Vol. **19**, No. **10** (2022) 2250152 (14 pages).
6. M. Neagu, V. Balan, A. Oană: "Dual jet time-dependent Hamilton geometry and the least squares variational method", U.P.B. Sci. Bull., Series A, Vol. **84**, Iss. **2** (2022), 129-144.
7. V. Balan, M. Neagu, A. Oană, E.M. Ovsyuk: "A geometrization on dual 1-jet spaces of the time-dependent Hamiltonian of electrodynamics", Bull. of the Transilvania Univ. of Brasov. Ser. III: Math. and Comput. Sci., Vol. **2(64)**, No. **1** (2022), 15-22.
8. E.M. Ovsyuk, O.A. Semenyuk, A.V. Ivashkevich, M. Neagu: "Stuckelberg particle in a Coulomb field: A non-relativistic approximation", Nonlinear Phenomena in Complex Systems, Vol. **25**, No. **4** (2022), 387-404.
9. M. Neagu, A. Oană: "Dual jet geometrization for a Chernov-like Hamiltonian", U.P.B. Sci. Bull., Series A, Vol. **85**, Iss. **4** (2023), 21-28.
10. M. Neagu, A.V. Litră: "SIR dynamical model with demography and Lagrange-Hamilton geometries", "Vasile Alecsandri" University of Bacau, Faculty of Sciences, Scientific Studies and Research. Series Mathematics and Informatics, Vol. **33**, No. **1** (2023), 87-96.

9.3. Proceedings

1. V. Balan, M. Neagu: "Ricci and deflection d -tensor identities on the dual 1-jet space $J^{1*}(R, M)$ ", Proceedings of the XIII-th International Virtual Research-to-Practice Conference "Innovative Teaching Techniques in Physics and Mathematics, Vocational and Mechanical Training", March 25-26, (2021), Mozyr State Pedagogical University named after I.P. Shamyakin, Belarus, pp. 195-197.
2. A. Oană, V. Balan, M. Neagu: "Local Bianchi identities in the time-dependent Hamilton geometry on dual 1-jet spaces", Proceedings of the XIV-th International Virtual Research-to-Practice Conference "Innovative Teaching Techniques in Physics and Mathematics, Vocational and Mechanical Training", March 29 (2022), Mozyr State Pedagogical University named after I.P. Shamyakin, Belarus, pp. 269-272.
3. M. Neagu, A. Oană, V. Balan: "Dual jet h -normal N -linear connections in time-dependent Hamilton geometry", BSG Proceedings **29** (2022), pp. 68-73.
4. M. Neagu, E.M. Ovsyuk: "Rabinovich-Fabrikant dynamical system and Lagrange-Hamilton geometries", Proceedings of the XV-th International Virtual Research-to-Practice

Conference “Innovative Teaching Techniques in Physics and Mathematics, Vocational and Mechanical Training”, March 24 (2023), Mozyr State Pedagogical University named after I.P. Shamyakin, Mozyr, Belarus, pp. 257-259.

9.4. Grants

Program/ Project	Position	Period
V.M. Red'kov and V. Balan : <i>Project BRFFR No. F20RA-007</i> – The cooperation framework between Romanian Academy and Belarusian Republican Foundation for Fundamental Research	Member	2012 - 2022

10. Memberships

Balkan Society of Geometers (1997 - 2023);
Society of Mathematical Sciences from Romania (2003 - present);
Reviewer at Zentralblatt für Mathematik (2018 - present);
Reviewer at Mathematical Reviews (2023 - present).

11. Scholarships

“TEMPUS” Scholarship (April 1, 1997 – June 30, 1997) - Université de Nice Sophia-Antipolis, France.

12. Awards

1. **Diploma of Appreciation (2008)** (Faculty of Mathematics and Computer Science, Transilvania University of Braşov), for the paper “*Jet Riemann-Lagrange geometry and some applications in Theoretical Biology*”, Journal of Dynamical Systems and Geometric Theories, Vol. 6, No. 1 (2008), pp. 13-25; Authors: Ileana Rodica Nicola and Mircea Neagu.
2. **Prize CNCIS * ISI * (2010)** (National Council of Scientific Research from Higher Education, Bucharest), for the paper “*Jet geometrical extension of the KCC-invariants*”, Balkan Journal of Geometry and Its Applications, Vol. 15, No. 1 (2010), pp. 8-16. Authors: Vladimir Balan and Mircea Neagu.
3. **Prize of Transilvania University of Braşov (2011)** (Transilvania University of Braşov), for the monograph “*Jet Single-Time Lagrange Geometry and Its Applications*”, John Wiley & Sons, Inc., Hoboken, New Jersey, 2011; Authors: Vladimir Balan and Mircea Neagu.
4. **Prize UEFISCDI * ISI * (2013)** (Executive Unity for Funding of Higher Education, Research, Development and Innovation, Bucharest), for the paper “*Jet theoretical Yang-Mills energy in the geometric dynamics of 2D-monolayer*”, Journal of Mathematical Physics, Vol. 54, 031508 (2013), pp. 1-14. Authors: M. Neagu, N.G. Krylova and H.V. Grushevskaya.