

PERSONAL INFORMATION

LIGIA RUSU



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Sex F | Date of birth 24/02/1967 | Nationality Romanian

JOB APPLIED FOR
 POSITION
 PREFERRED JOB
 STUDIES APPLIED FOR
 PERSONAL STATEMENT

WORK EXPERIENCE

1.10.2007-present	Professor, M.D.Ph.D /Head of Sports Medicine and Rehabilitation Department University of Craiova
1.10.2004-1.10.2007	Academic activity in field of physical therapy, sports medicine, anatomy and biomechanics
1.10.2000-1.10.2004	Assoc. Prof./Medical and Sports Department/University of Craiova
1.10.1995-1.10.2000	Lector/Medical and Sports Department /University of Craiova
15.04.2000-present	Assistant prof./Medical and Sports Department/University of Craiova
2017-present	Medical Doctor-Sports Medicine Physician/ Musculoskeletal Ultrasound Competence/Emergency Hospital Sports Medicine and Rehabilitation Department/Craiova Specific medical activity Phd Coordinator-University of Craiova, Romania

EDUCATION AND TRAINING

Replace with EQF
(or other) level if
relevant

1981-1985
Nicolae Balcescu College- Physics and Mathematics, Craiova

1985-1991
Bachelor degree-Medical Doctor, University of Craiova-Faculty of General Medicine

1995-1999
Sports Medicine and Rehabilitation Pysician Resident Doctor
Institute of Sports Medicine, Bucharest

2000- Ultrasound Course - UMF Craiova, Ultrasound competence

2003- PhD degree-University of Craiova-Anatomy

2007- Course TMG, Ljubljana, Slovenia

2017-Habilitation-University of Pitesti

2017-Musculoakeletal Ultrasound Course University fo Ghent

2020- Musculoskeletal Ultrasound Course Competence, University Carol Davila , Bucuresti

Other courses:

- 1.*Myelodysplastic and Myeloproliferative Disease: Biology and Treatment*, with the aim of integrating this new knowledge into present work in oncology-curs organizat de European School of Oncology.-Patras, Grecia, 1997.Chairman of the Scientific Committee-Prof. Umverto Veronesi M.D.; chairman of the Course-N.C. Zoumbos; A. Bacigalupo.
- 2.*Formation Professionnelle Medicale/ A.N.F.O.R.M.E.S- F.I.M.S*, 4-5.12.2000, Paris, France.
- 4.*Course Medicină Sportivă*, / Comitetul Olimpic Român, 8-12.10.2000.
- 5.*Symposia- Actualities in ultrasound*, UMF,Craiova, 30.03.2002.
- 6.*Course*Electrocardiografie teoretică și practică**, UMFCraiova, 1-31.05.2002.
- 7.*Course F.I.M.S-în cadrul XXVII FIMS World Congress of Sports Medicine*, 5-9.06.2002, Budapesta, Hungary
- 8.*Course-Efficency of physical therapy*, 21-22.11. 2003, Bucharets.
- 9.*Course –National Congress of Reumatology* 15-18 .09. 2004
- 10.*Course Doppler ultrasound* , UMF Craiova, march-may 2006
11. *Course“Electromyography in rehabilitation ”*, U.M.F Carol Davila, Bucharest, Hospital ELIAS,2007.
- 12.*Symposia “ Rehabilitation in ambulatory ”*, Hospital ELIAS Bucharest 7-8.12. 2006.
13. *Rehabilitation course Bad Ragz Method-Klinik Valens*, Swiss, May 2008
14. *Sport Rehab Course Lower Limb/Thesalonik*, Grece, 14-16 May2010
- 15.*3^d Summer Course Sports Medicine*-24-29August 2015, Marathonas, Greece
16. *15.lternational Ultrasound Course Euro-Musculus VII*, 15-18November 2016, Ghent, Belgia
- 17.*Course US-guided PRP infiltration techniques*, 18November2016, Ghent ,Belgia
- 18.*Course Sports Cardiology*, Romanian Society of Cardiology, 3.03.2017, Bucharest
- 19.Sport cardiology course, IOC Course, Paris, 2019.

Mother tongue(s) Romanian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English	B2	C1	B2	C1	B1
Replace with name of language certificate. Enter level if known.					
French	A2	A2	A1	A1	A1
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ Experience like manager of different projects, communication, leadership.

Driving licence B

Relevant publications:

1. M.C.Neamtu, Ligia Rusu, Petre Florinel Rusu, Oana Neam, D. Georgescu, Maria Iancău, *Neuromuscular assessment in the study of structural changes of striated muscle in multiple sclerosis, Romanian Journal of Morphology and Embryology* 2011, 52(4):1299–1303 (ISSN (on-line) (2066-8279).
2. M.C. Neamtu, Ligia Rusu, Mihnea Marin, Taina Avramescu, Rusu Petre Florinel, O.M. Neamtu, Maria Iancău, *Morphofunctional aspects of lower limb in multiple sclerosis, Romanian Journal of Morphology and Embryology* 2012, 53(1): pag. 117–120 (ISSN (on-line) 2066-8279).
3. M.C.Neamtu, Ligia Rusu, Rusu Petre Florinel, Mihnea Marin, O.M. Neamtu, *Biomechanical disorders of foot in multiple sclerosis, Romanian Journal of Morphology and Embryology* 2012, 53(3)suppl: pag. 841-845 (ISSN (on-line) 2066-8279).
4. Ligia D Rusu, Germina GH Cosma, Sorina M Cernaianu, Mihnea N Marin, Petre Florinel Rusu, Daniel P Ciocănescu, Florin N Neferu *Tensiomyography method used for neuromuscular assessment of muscle training Journal of NeuroEngineering and Rehabilitation* 2013, 10:67 doi:10.1186/1743-0003-10-67
5. E.I. Paun, L.Rusu, Rusu Petre Florinel, *Role of electric stimulation in gait rehabilitation after stroke, European Journal of Neurology* 2010, 17 (Suppl. 3), 585
6. L. Rusu, M. Dragomir, Rusu Petre Florinel, M. Marin, *Ankle foot rehabilitation in stroke using biomechanical assessment, Cerebrovasc Dis* 2011;31(suppl 2):1–322
7. Copilusi C., Marin M., Rusu L., Geonea I., *Design Considerations regarding a New Knee Orthosis. Journal of Applied Mechanics and Materials* Vol. 162 (2012) pp 276-285. Online available since 2012/Mar/27 at www.scientific.net (2012) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.162.276 ISI PROCEEDINGS
8. C. Copilusi, M. Marin, N. Dumitru, L. Rusu, *Locomotion System Dynamic Analysis with Application on Children Orthotics and Prostheses Devices. World Congress on Engineering. 2012. Londra. Marea Britanie. pp1663-1668*
9. Copilusi C., Marin M., Rusu L., „A New Knee Prosthesis Design Based on Human Lower Limb Cinematic Analysis” *World Congress on Engineering. 30 June – 2 July 2011. London, U. K. Pp. Published by International Association of Engineers. ISBN 978-988-18210-7-2. ISSN 2078-0958*
10. Copilusi C., Dumitru N., Marin M., Rusu L., „Human Lower Limb Kinematic Analysis with Application on Prosthesis Mechanical Systems”. *13th World Congress in Mechanism and Machine Science, Guanajuato, México. IMD-123. IF TOMM-2011. Paper ID: A22-343. ISBN 978-607-441-131-7.*
11. Copilusi C., Marin M., Rusu L.: „Design of a New Human Knee Prosthesis Based on Cam Mechanism”. *The 21th INTERNATIONAL DAAAM SYMPOSIUM "Intelligent Manufacturing & Automation: Focus on Interdisciplinary Solutions". pp. 709-711. 20-23th October 2010, Zadar, Croatia.*
12. Copilusi C., Marin M., Rusu L., „A New Knee Prosthesis Design Based on Human Lower Limb Cinematic Analysis” *World Congress on Engineering. 30 June – 2 July 2011. London, U. K. Pp. Published by International Association of Engineers. ISBN 978-988-18210-7-2. ISSN 2078-0958*
13. Copilusi C., Dumitru N., Marin M., Rusu L., „Human Lower Limb Kinematic Analysis with Application on Prosthesis Mechanical Systems”. *13th World Congress in Mechanism and Machine Science, Guanajuato, México. IMD-123. IF TOMM-2011. Paper ID: A22-343. ISBN 978-607-441-131-7.*
14. Copilusi C., Dumitru N., Rusu L., Marin M.: „Cam Mechanism Kinematic Analysis used in a Human Ankle Prosthesis Structure”. *World Congress on Engineering. 30 June – 2 July 2010. London, U. K. Pp. 1316-1320. Published by International Association of Engineers. ISBN 978-988-18210-7-2. ISSN 2078-0958.*
15. Copilusi C., Dumitru N., Marin M., Rusu L.: „Design of a new prosthetic mechanical system used in human ankle joint disarticulation”, *Medical Physics and Biomedical Engineering World Congress 2009, 7-12 September, Munchen Germany. Published as IFMBE Proceedings Dossel-Schleggel Eds. Springer Berlin Heidelberg Publishing house. ISBN 978-3-642-03888-4. Volume 25/9.*
16. Vasilescu M, Rusu L, Nestianu V et al (2011). *Complex method for localized muscle fatigue evaluation. International Journal of Chemical and Biological Engineering; 53: 795-798.*
17. Vasilescu M, Balseanu AT, Balasoiu M, Rusu L et al (2010). *The effects of continuous versus intermittent aerobic exercises on lipid profile and anthropometrical parameters at young with Metabolic Syndrome. Medicina Sportiva; 6(1): 1304-1311.*
18. Mihai Marian Dragomir, Ligia Rusu, Mirela Vasilescu, Petre Florin Rusu, 2010, *Gait analysis using Footscan force platform, Sport Medicine Journal, supplement 3, ISSN 1841-0162*
19. Mihai Marian Dragomir, Ligia Rusu, Petre Florin Rusu, 2010, *Psychosocial Impact in Stroke Rehabilitation, Sport Medicine Journal, supplement 3, ISSN 1841-0162*
20. Paun Elvira, Rusu Ligia, Popescu Roxana, Copilusi Petre Cristian, Cernaianu Sorina, Dragomir Mihai, *Study concerning the importance of complex assessment in stroke rehabilitation, Medicina Sportivă nr. 20/2009, jurnalul Societății Române de Medicină Sportivă, ISSN 1841-0162*
21. Rusu L., Vasilescu M., Cernăianu S., Dragomir M., PĂUN E., *Proprioceptive training in rehabilitation of knee stability in soccer players - XVI Congress on Sport Rehabilitation and Traumatology, Health prevention and rehabilitation in soccer, Milano, 14-15 aprilie, 2007, ISBN 978-88-6028-107-4.*
22. M.M. Dragomir, L. Rusu, E. Paun, E. Rosulescu, M. Zavaleanu. *Monitoring the rehabilitation program after stroke using the myotonometric assessment. Poster presentation. 16th Congress of EFSN, Stockholm, Sweden. 2012 EFNS European Journal of Neurology 19 (Suppl. 1), 582.*
23. Neamtu Marius Cristian, Neamtu Oana Maria, Rusu Mihai Robert, Marin Mihnea Ion, Rusu Ligia *Functional muscle balance assessment in multiple sclerosis, Journal of Back and Musculoskeletal Rehabilitation, vol. 33, no. 4, pp. 607-612, 2020*
24. Rusu, L.; Paun, E.; Marin, M.I.; Hemanth, J.; Rusu, M.R.; Calina, M.L.; Bacanoiu, M.V.; Danoiu, M.; Danculescu, D. *Plantar Pressure and Contact Area Measurement of Foot Abnormalities in Stroke, Rehabilitation. Brain Sci. 2021, 11, 1213. <https://doi.org/10.3390/brainsci11091213>*



Director of research grants

National grants:

Director at 3 national research programs from 2006-present: « *Algorithm of implementation and monitoring of physical exercises in neuromuscular diseases* », « *Contributions in physical exercise applications with progressive resistance for post stroke spasticity patients* », « *Algorithm for complex assessment and rehabilitation of gait using physical exercises after stroke* ».

International grants proposal

European projects:

1. EAH Call 2009 – *IRIDE-life style* coordinator Associazione Italiana Cultura Sport;
2. FP 7- 244951 ISCOR FP7 - AN INTERCULTURAL STUDY OF CHILDHOOD OBESITY RISK FACTORS AND MEDIATORS;
3. Program Health EAC/21/2009/038 C/D3/AH/bb/ARES/2009 - SPORT&GO;
4. Program EUROCORES- NR. PROIECT 09-ETHEME-25 EUROCORES AN INTERCULTURAL STUDY OF CHILDHOOD OBESITY RISK FACTORS
5. ALGORITHM FOR ASSESSMENT AND PREVENTION OF MUSCULOSKELETAL DISORDERS IN OBESITY, FP7-HEALTH-2011-single stage-call, 2011, Coordinator UCV.
6. LDV NR.ROIECT- 2009-I-IE1-LEO05-00741, AGREEMENT LLP/LdV/TOI/2009/IRL-519 - Life Long Learning Readiness in SMEs- ReadiSME
7. Program Erasmus Curriculum Development 503754-LLP-1-2009-1-FR-ERASMUS - International Master In Sports Tourism Engineering (IMISTE)" coordonator UNIVERSITÉ LILLE 2
8. "Sports tourism and disability"," International Master in Sports Tourism Engineering (<http://imiste.univ-lille2.fr>) 503754-LLP-1-2009-1-FR-ERASMUS - Erasmus Curriculum Development - Continuing Education
9. UCV Coordinator-DIMENSAAI Project, LLP-TOI, 2012-2014
10. Coordinator Project-TAKE HEART-Erasmus+ 2015-2017
11. Swiss and Romanian obese and overweight children: Profiles and cross-cultural differences for tailor-strategies. Swiss and Romanian obese and overweight children Profiles and cross-cultural differences for tailor-made strategies. IZERZO_142307 Romanian-Swiss Research Programme (RSRP)
12. Specific Programme "Cooperation" – Theme 1 "Health"; Call identifier: H2020-PH2015 two-stage; Proposal No: 667143-1; Acronym: I
13. Dissemination and valorisation of open innovative learning for companies in Communities of Practice in SMEs from medical sector- EAC/49/2010; KA4 Multilateral projects numéro de référence 518877-LLP-1-2011-1-RO-KA4-KA4MP.
14. Specific Programme "Cooperation" – Theme "Health"; Call identifier: FP7-HEALTH-2011-single-stage Proposal No: 282516 Acronym: AAPMO- ALGORITHM FOR ASSESSMENT AND PREVENTION OF MUSCULOSKELETAL DISORDERS IN OBESITY

Member national grants

1. Member: National Research project CEEX Module I -M-C2-2358, "*Individualized management for motor revalidation of patients with neurological and orthopaedic pathology by interdisciplinary research methodologies*";
2. Project PN II- IDEAS- "*Research regards effects of physical exercises in prophylaxis and treatment of metabolic syndrome at younger people*";
3. Project PN II- Partners "*Explore of biologic system in maximal muscle effort*"
4. Manage the International Conferences" Physical Exercises - A Complex And Modern Way To Promote Healthy Living" 2008,2009,2010.

Director of research center: "Center for study human body motricity", University of Craiova, recognised by CNCSIS 2005.

Director of Laboratory of Tehniques and Innovative process in bioengineering- INCESA-Craiova

Scientific papers-more then 120 papers presented to national and international conferences and more then 30 article published in national and international journals.

Editor manager from 2005-2013 -Journal of Romanian Sports Medicine Society

Editorial board of Journal of Physical Education and Sport, University of Pitesti, Romania; Journal of Physical Therapy Timisoara-Romania; Montenegrin Journal of Sport Science and Medicine; Turkish Journal of Physiotherapy and Rehabilitation; BMC Research Notes, Romanian Journal of Sport Medicine

Reviewer of Journal Diabetes Research and Clinical Practice, Journal of International Federation of Diabetes; American Journal of Sports Science and Medicine; PlosOne; International Sport Med Journal; Journal of Sports Sciences; Service Science and Management Research; Journal of Sport Rehabilitation; Journal of Back and

