



Curriculum Vitae

PERSONAL INFORMATION



PÎRGHIE ANA-CAMELIA
ȘTEFAN CEL MARE UNIVERSITY OF SUCEAVA

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💬 ID Skype: camelia.pirghie

Sex F | Date of birth 30/04/1981 | Nationality ROMANIAN

POSITION WITHIN THE PROJECT

SCIENTIFIC RESEARCHER III

WORK EXPERIENCE

10.2017 – PRESENT

Lecturer

Faculty of Mechanical Engineering, Mechatronics and Management
"Ștefan cel Mare" University of Suceava, Suceava, www.fim.usv.ro
Teaching activities (courses, seminars, laboratories of Elements of Physics, Physics, Biophysics, Applied Informatics, Sources of Radiation and Protective Techniques, Microelectromechanical systems - MEMS) and scientific research
Sector Higher Education

10.2010 – 10.2017

Assistant lecturer

Faculty of Mechanical Engineering, Mechatronics and Management
"Ștefan cel Mare" University of Suceava, Suceava, www.fim.usv.ro
Teaching activities (courses, seminars, laboratories of Elements of Physics, Physics, Biophysics, Applied Informatics, Sources of Radiation and Protective Techniques, Microelectromechanical systems - MEMS) and scientific research
Sector Higher Education

10.2009 - 10.2010

Teaching lecturer

Faculty of Mechanical Engineering, Mechatronics and Management
"Ștefan cel Mare" University of Suceava, Suceava, www.fim.usv.ro
Teaching activities (seminars, laboratories of Physics) and scientific research
Sector Higher Education

EDUCATION AND TRAINING

10.2006-05.2010

PhD in Physics

"Al. I. Cuza" University of Iași – Faculty of Physics
Thesis title: Warped spacetime geometrodynamics with application to astrophysics and cosmology

10.2004-06.2006

Master's degree Diploma – Nonlinear phenomena theory

"Al. I. Cuza" University of Iași – Faculty of Physics
Principal subjects: Special chapters of quantum mechanics, Modelling and simulation in physics, Theory of nonlinear phenomena, Statistics of nonequilibrium states

10.2000-06.2004

BSc Diploma in Physics

"Al. I. Cuza" University of Iași – Faculty of Physics
Principal subjects: Programming languages, Physical data processing and numerical methods, Electrodynamics and Theory of Relativity, Quantum mechanics, Thermodynamics and statistical physics, Nuclear physics and elementary particles

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2



Curriculum Vitae

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Independent user	Independent user	Independent user

Office, MathCad, Maple, Matlab, Root

Organisational/managerial skills: Member of the organizing team and chairman of the International Olympiad on Astronomy and Astrophysics 2014, Suceava, Romania

Other skills: Driving licence (category B)

Publications

ISI Papers

1. **Ana-Camelia Lohan**, Margareta Ignat, *Numerical simulation for the non-linear Lotka-Volterra system*, Romanian Journal of Physics, Vol. 52, No. 3-4, p. 231-236, 2007
2. Marina-Aura Dariescu, Ciprian Dariescu, **Ana-Camelia Pîrghie**, *Quantum thermodynamics of massless bosons in universes with $VIIxVIII_0$ isometries*, International Journal of Modern Physics A, Vol. 24, Issues 8-9, p. 1574-1577, 2009, impact factor 0.941
3. Marina-Aura Dariescu, Ciprian Dariescu, **Ana-Camelia Pîrghie**, *Mass spectrum in 5D warped Einstein universe and El Naschie's quantum golden field theory*, Chaos, Solitons & Fractals, Vol. 42, Issue 1, p. 247-252, 2009, impact factor 3.315
4. Marina-Aura Dariescu, Ciprian Dariescu, **Ana-Camelia Pîrghie**, *Thermodynamics of bosons in an universe with global pathology*, Romanian Reports in Physics, Vol. 61, Number 3, p. 417-426, 2009, impact factor 0.458
5. **Ana-Camelia Pîrghie**, Ciprian Dariescu, Marina-Aura Dariescu, *Hawking-de Sitter Thermalization of Quasi-Minkowskian Massless Scalaron Production, Energy Density Content and Back-Reaction*, International Journal of Theoretical Physics, Vol. 49, Number 1/ January, p. 98-109, 2010, impact factor 0.67
6. Pîrghie C., **Pîrghie A.C.**, Eder S., Franek F., *PFPE-Z lubricant thin films in molecular dynamics simulations – shear thinning and friction law*, Optoelectronics and Advanced Materials - Rapid Communications, vol.7, issue 5-6, p. 434-438, 2013, impact factor 0.449
7. Pîrghie C., **Pîrghie A.C.**, Eder S., Franek F., *Effect of steady shear and loading pressure on thin PFPE-Z lubricant films in molecular dynamics simulations*, Journal of the Balkan Tribological Association, vol.20, issue 2, p. 291-299, 2014, impact factor 2013 - 0.321
8. C. Pîrghie, **A.C. Pîrghie**, *Molecular dynamics simulations of viscosity in confined lubricant film*, Journal of the Balkan Tribological Association, Vol. 22, No 2A-II, 2008-2020, 2016, ISSN: 1310-4772

ISI Proceedings

1. C. Pîrghie, **A.C. Pîrghie**, I. Musca, *On the nanolubrication as a function of load and speed wall*, Proceedings of the 16th International Conference ModTech 2012, vol. II, pag. 753-756
2. C. Pîrghie, **A.C. Pîrghie**, I. Musca, *The lubricant behavior in nanotribological systems*, Proceedings of the 16th International Conference ModTech 2012, vol. II, pag. 757-760

International Database Papers

1. **Ana-Camelia Lohan**, Marina-Aura Dariescu, Ciprian Dariescu, *Field thermodynamics in quantum Hall effect*, Buletinul Institutului Politehnic din Iași, Tomul LIV (LVIII), Fasc. 1, pag. 83-90, Secția Matematică. Mecanică Teoretică. Fizică, 2008, (CNCSIS B⁺)
2. Ciprian Dariescu, **Ana-Camelia Pîrghie**, *The Bogolubov coefficients and particle creation during the quasi-de Sitter stage of the universe*, Buletinul Institutului Politehnic din Iași, Tomul LIV (LVIII), Fasc. 3, pag. 79-88, Secția Matematică. Mecanică Teoretică. Fizică, 2008, (CNCSIS B⁺)
3. Marina-Aura Dariescu, Ciprian Dariescu, **Ana-Camelia Pîrghie**, *Fermions on 5D warp of Einstein universe*, Buletinul Institutului Politehnic din Iași, Tomul LV (LIX), Fasc. 1, pag. 45-52, Secția Matematică. Mecanică Teoretică. Fizică, 2009, (CNCSIS B⁺)
4. **Ana-Camelia Pîrghie**, *On the cosmological prime integral of Einstein's field equation for Λ - closed universe models*, Buletinul Institutului Politehnic din Iași, Tomul LV (LIX), Fasc. 4, pag. 53-64, Secția Matematică. Mecanică Teoretică. Fizică, 2009, (CNCSIS B⁺)
5. Cristian Pîrghie, **Ana-Camelia Pîrghie**, Ciprian Dariescu, *Applied geometry of gauge-invariance to inhomogeneous Robertson-Walker cosmologies*, International Journal of Arts&Sciences, 4(20):1-6 (2011)

6. Cristian Pirghie, **Ana-Camelia Pirghie**, Some aspects of the nanotribological film in nanotribological applications, TEHNOMUS - New Technologies and Products in Machine Manufacturing Technologies (ISSN 2247-6016), No. 21, Issue 1, p. 122-125, 2014
7. Cristian Pirghie, **Ana-Camelia Pirghie**, Characterizing the behaviour of the lubricant films using molecular dynamics simulations, Fiability & Durability (ISSN 1844-640X), Issue 1, p. 49-56, 2014

List of scientific papers published in proceedings of conferences

1. Cristian Pîrghie, **Ana-Camelia Pîrghie**, *Investigations of nanotribological systems using molecular dynamics simulations*, VAREHD 16 International Conference on EHD Lubrication and Traction, 25-27 octombrie 2012, Universitatea „Ștefan cel Mare” Suceava, pag. 53-60

Projects – researcher team member (2015) in the LHCb project, contract no. 3/03.01.2012

Projects – researcher team member (2016-2018) in the LHCb project, contract no. 7/16.03.2016

Date,
2.10.2018

Signature,