Delia IONESCU-KRUSE

Institute of Mathematics "Simion Stoilow" Romanian Academy

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Curriculum Vitæ

Date and place of birth: 17th June 1971, Bucharest, Romania.

Marital status: Married, 1 child.

Nationality: Romanian.

Education:

Feb. 2002: PhD in Mathematics, Bucharest University,

Thesis: "Applications of the geometry in Logunov's relativistic theory", Thesis-advisors: Professor S. Ianus (Bucharest University), Senior

Researcher E. Soos (Institute of Mathematics of the Romanian Academy).

1994 - 1995: Master in Geometry, Bucharest University. 1989 - 1994: Faculty of Mathematics, Bucharest University.

Employment:

10/2005 - : Principal Researcher III, Institute of Mathematics

"Simion Stoilow" of the Romanian Academy (IMAR).

02/2002 - 09/2005: Lecturer, Department of Mathematics, Technical University

of Civil Engineering Bucharest (UTCB), Romania.

03/2002 - 08/2004: Post-doctoral Research Fellow within MASIE (Mechanics and

Symmetry in Europe) Research Network, Zentrum Mathematik

der Technischen Universität München (TUM), Germany.

02/1998 - 01/2002: Assistant, Department of Mathematics, UTCB.

09/1995 - 01/1998: Tutor Assistant, Department of Mathematics, UTCB.

Research interests:

Geometric methods in Hydrodynamics.

Geometric Mechanics, Birkhoffian systems.

Nonholonomic geometry, mechanics and control.

Relativistic theories of gravitation.

Scientific awards:

2008: Dimitrie Pompeiu prize of the Romanian Academy (for the year 2006).

Further study and visiting positions:

10/2009:	Invited researcher, Erwin Schrödinger Institute (ESI) Vienna,
,	Austria, program "Recent advances in integrable systems
	of hydrodynamic type" (2 weeks).
10/2007:	Invited researcher, Institute of High Energy Physics (IHEP),
	Protvino, Moscow Region, Russia (2 weeks).
07/2007:	Invited researcher, Ecole Polytechnique Federale de Lausanne
	(EPFL), Switzerland.
05/2007:	Invited researcher, Department of Mathematics, Lund University,
	Sweden (2 weeks).
12/2006:	Invited researcher, School of Mathematics, Trinity College Dublin,
	Ireland (2 weeks).
10/2006:	Invited researcher, Centre de Mathematiques et Informatique,
	Universite d'Aix-Marseille I, France (2 weeks).
07/2005:	Summer School and Conference on Poisson Geometry, Abdus
	Salam ICTP-Trieste, Italy, individual fellowship.
02/2005:	Qualification at the Maitre de Conferences positions, France.
09/2004, 05/2003	,
11/2002:	Invited researcher, EPFL, Switzerland.
02/2002, 09/1999	: Invited researcher, IHEP, Protvino, Moscow Region, Russia.
07/1998:	Summer School on Differential Geometry Cortona, Italy,
	individual fellowship.
04/1997 - 07/199	7: Individual fellowship within Tempus Phare program,
	Department of Mathematics, Perpignan University, France.

Attended conferences with talk:

- 08/2010: 10eme Colloque Franco-Roumain de Mathematiques Appliquees, Poitiers, France.
- 05/2010: Nonlinear water waves with applications to wave-current interactions and tsunamis, The University of Texas-Pan American, Texas, USA.
- 11/2007: Geometrical Mechanics, Centre International de Rencontres Mathématiques (CIRM), Marseille, France.
- 07/2007: 6-th Congress of Romanian Mathematicians, Bucharest, Romania.
- 08/2006: 8ieme Colloque Franco-Roumain de Mathematiques Appliquees, Chambery, France.
- 08/2006: Colloque International de Theorie Variationnelle (CITV) (organizers: J.M. Souriau, C. Vallee), Notre-Dame-de-Vaulx, France.
- 03/2006: 77th Annual Meeting of the Gesellschaft fuer Angewandte Mathematik und Mechanik (GAMM), Berlin, Germany.
- 09/2005: The Seventh International Workshop on Differential Geometry and its Applications, Deva, Romania.
- 08/2005: Colloque International de Theorie Variationnelle (CITV) (organizers: J.M. Souriau, C. Vallee), Asnelles-sur-Mer dans le Calvados, France.
- 07/2004: Geometric Mechanics and its Applications, EPFL, Switzerland.
- 08/2003: Colloque International de Theorie Variationnelle (CITV) (organizers: J.M. Souriau, C. Vallee), Mauges en Anjou, France.
- 05/2003: Geometry, Symmetry and Mechanics, Cargese, Corsica, France.

- 08/2002: Conference on Dynamical System Methods in Fluid Mechanics, Oberwolfach, Germany.
- 07/2002: Workshop on: Geometry, Symmetry and Mechanics, Warwick, England.
- 09/2001: The V International Workshop on Differential Geometry and its Applications, Timişoara, Romania.
- 06/2000: The XXIII International Workshop on High Energy Physics and Field Theory, Protvino, Moscow Region, Russia.

Research projects:

Post-doc at Technische Universität München, Germania, within European network MASIE (Mechanics and Symmetry in Europe) no. HPRN-CT-2000-00113(03/2002 - 08/2004), "Continuum Mechanics and Hamiltonian PDE's".

Interacademic cooperation project no. 19626(10/2006) between Romanian Academy (IMAR) and CNRS (LATP, UMR 6632, Université Marseille I, France), "Methodes symplectiques en hydrodynamique".

Member of the research project SCOPES between IMAR and EPFL no. IB7320-110721/1(2005-2008), "Applied symplectic geometry and modelling of materials".

Member of the CEEX (centre of excellence) project CEx06-11-12/25.07.06(2006-2008), "Mathematical modelling in continuum mechanics. Applications in material sciences".

Member of the CEEX (centre of excellence) project CEx05-D11-23/2005(10/2005-09/2008) "Operatorial Methods, Complex and Functional Analysis, with Applications".

Referee activity:

2010: Judge nominated by the Higher Education Commission (HEC) Pakistan, for the HEC Outstanding Research Awards 2008-09 in the Discipline Basic and Appplied Sciences, sub-field Mathematics.

2010: Referee for Environmental Fluid Mechanics.

2009: Referee for Journal of Physics A.

2006: Referee for Int. J. Non-Linear Mechanics.

2002: Referee for Journal of Mathematical Physics.

Foreign languages:

English: fluent.

French: fluent (Diplôme Approfondi de Langue Française).

German: fluent (Zertifikat Deutsch, Goethe Institut).