



PERSONAL INFORMATION

Lorant Janosi

 National Institute for Research and Development of Isotopic and Molecular Technologies (INCDTIM), Cluj-Napoca (Romania)

 (+40)264-584037, ext. 177

 lorant.janos@itim-cj.ro

Date of birth 02/21/1979 | Nationality Romanian

PROFESSIONAL EXPERIENCE

- 01/2013–Present **Scientific Researcher I**
INCDTIM, Dept. of Molecular and Biomolecular Physics
67-103 Donat, 400293 Cluj-Napoca (Romania)
www.itim-cj.ro
- 10/2010–12/2012 **Marie Curie Fellow / Researcher**
Università degli Studi di Cagliari, Dept. of Physics., Cagliari (Italy)
- 07/2009–09/2010 **Postdoctoral Fellow 2**
Univ. of Texas–HSC, Dept. of Integrative Biology and Pharmacology, Houston, TX (USA)
- 09/2007–06/2009 **Postdoctoral Fellow**
Univ. of Houston, Dept. of Chemical and Biomolecular Engineering, Houston, TX (USA)
- 01/2003–08/2007 **Research Assistant**
Univ. of Missouri-Columbia, Dept. of Physics and Astronomy, Columbia, MO (USA)
- 08/2006–12/2006 **Teaching Assistant**
Univ. of Missouri-Columbia, Dept. of Physics and Astronomy, Columbia, MO (USA)

EDUCATION

- 01/2003–08/2007 **Ph.D. in Physics (Dec. 2007)**
University of Missouri-Columbia, Columbia, MO (USA)
- 10/2001–02/2002 **M.Sc. in Solid State Physics (Jul. 2002)**
“Babeş–Bolyai” University, Cluj-Napoca (Romania)
- 03/2002–06/2002 **Technical University, Chemnitz (Germany)**
- 10/1997–07/2001 **B.Sc. in Physics**
“Babeş–Bolyai” University, Faculty of Physics, Cluj-Napoca (Romania)

PERSONAL SKILLS

Maternal Language(s) Hungarian, Romanian

Foreign Language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------|-------------|---------|
| | Listening | Reading | Conversation | Oral Speech | |
| English | C2 | C2 | C2 | C2 | C2 |
| Italian | B1 | B1 | A2 | B1 | A2 |
| French | A2 | B1 | A2 | A2 | B1 |

Levels: A1 and A2: Basic user - B1 and B2: Independent User - C1 and C2: Experienced User
[European language levels](#)

- Communication skills**
- excellent communication skills from oral presentations experience
 - excellent interpersonal skills from numerous conference attendances
 - ability to relate well to students attained as research assistant

- Organizational/Management Skills**
- *good organizational skills attained as part of organizing team of Missouri Nano-technology Alliance 3rd Annual Conference (2006, Columbia, MO, USA)*
 - *leadership skills attained by coordinating projects Marie Curie (2010-2012, Universita degli Studi di Cagliari, Italy) and Nucleu PN16 30 02 03 (2016-2017, INCDTIM, Cluj-Napoca, Romania), and by directing projects PN-II-RU-TE-2014-4-2418 (2015-2017, INCDTIM, Cluj-Napoca, Romania) and PN-III-P1-1.1-TE-2016-0032 (2018-2020, INCDTIM, Cluj-Napoca, Romania)*

- Skills attained at work**
- *Molecular Modeling* (MD equil./non-equil., QC, Monte Carlo simulations)
 - *Molecular Dynamics* (NAMD, Gromacs, ACEMD)
 - *Quantum Chemistry* (Gaussian, Hyperchem)
 - *Molecular Visualization* (VMD)
 - *Data Analysis* (Gnuplot, Mathematica, Shell Scripting, Xmgrace)

Digital skills

| SELF-EVALUATION | | | | |
|------------------------|------------------|------------------|------------------|------------------|
| Processing information | Communication | Create content | Security | Solving problems |
| Experienced User | Experienced User | Experienced User | Independent User | Experienced User |

Other skills:

- *Programming:* C, C++, parallel programming (MPI)
- *Shell Scripting:* csh, tcsh, bash, tcl/tk
- *Editing/Presentations:* MSOffice, LaTeX, Emacs, Adobe Acrobat
- *Image Editing:* Adobe Illustrator, ImageMagick
- *Operating Systems:* Windows (XP, 7, 8), Linux (Debian, Ubuntu, RedHat), OS X

ADDITIONAL INFORMATION

- Awards**
- 2010 Marie Curie International Incoming Fellowship, *EC CORDIS FP7 Call* (Jun. 2010)
 - Ernest W. Landen Fellowship in Physics, *University of Missouri-Columbia* (May 2007)
 - 2007 Student Travel Award, *Biophysical Society 51st Annual Meeting* (Mar. 2007)
 - First Prize Winner of the Physics Leaders' Meeting Talks, *Univ. of Missouri-Columbia* (Sep. 2006)
 - Newell S. Gingrich Scholarship, *University of Missouri-Columbia* (May 2006)
 - O.M. Stewart Scholarship, *University of Missouri-Columbia* (May 2005)

- Affiliations**
- Biophysical Society (since 2005)
 - Romanian Society of Pure and Applied Biophysics (since 2013)
 - American Physical Society (2008-2009)
 - Physics and Astronomy Graduate Student Association, *University of Missouri-Columbia* (2005-2007)
 - Graduate Student Assoc., *University of Missouri-Columbia* (2003-2007)

Conferences and Workshops 24 international conferences, 8 national conferences and 4 workshops

Oral presentations 6 invited, 8 at conferences, 2 at seminars and 7 at group meetings

Sciento-metrics *Original ISI articles ISI: 18; Hirsch index: 13; ISI independent citations: 555* (527 without self-citations)

Publons, ResearchGate, Google Scholar, Brainmap

Important publications

- M. Bacalum, **L. Janosi**, ..., I. Turcu and M. Radu, "Modulating short tryptophan- and arginine-rich peptides activity by substitution with histidine", *BBA – Gen. Subj.*, **1861**, 1844 (2017)
- **L. Janosi** and M. Ceccarelli, "The gating mechanism of the human aquaporin 5 revealed by molecular dynamics simulations", *PLoS ONE*, **8**, e59897 (2013)
- Z. Li, **L. Janosi** and A. Gorfe, "Formation and domain-partitioning of H-Ras peptide nanoclusters: Effects of peptide concentration and lipid compositions", *J. Am. Chem. Soc.*, **134**, 17278 (2012)
- **L. Janosi**, Z. Li, J. Hancock and A. Gorfe, "Organization, dynamics and segregation of Ras nanoclusters in membrane domains", *Proc. Natl. Acad. Sci. of the U.S.A.*, **109**, 8097 (2012)
- **L. Janosi** and A. Gorfe, "Simulating POPC and POPC/POPG bilayers: Conserved packing and altered surface reactivity", *J. Chem. Theor. Comput.*, **6**, 3267 (2010)
- **L. Janosi**, A. Prakash and M. Doxastakis, "Lipid-modulated sequence-specific association of Glycophorin A in membranes", *Biophys. J.*, **99**, 284 (2010)
- **L. Janosi** and M. Doxastakis, "Accelerating flat-histogram methods for potential of mean force calculations", *J. Chem. Phys.*, **131**, 054105 (2009)
- I. Kosztin, B. Barz and **L. Janosi**, "Calculating potentials of mean force and diffusion coefficients from nonequilibrium processes without Jarzynski's equality", *J. Chem. Phys.*, **124**, 064106 (2006)

Projects

Won:

- PN-III-P1-1.1-TE-2016-0032, "design of Highly Efficient Antimicrobial peptides: in Silico preDiction and Experimental validation" / HEAL inSiDE, Principal Investigator, **449,931 RON** (2018-2020)
- PN-II-RU-TE-2014-4-2418, "Design of New Lipid-Modified Peptides to Destabilize Ras Nanoclusters - A Novel Therapeutic Approach for Targeting Oncogenic Ras Proteins" / LMPUnclusterRAS, Principal Investigator, **549,146 RON** (2015-2017)
- FP7-PEOPLE-2009-IIF - Marie Curie Action, "Association of Aquaporin Transmembrane Channels and Influence of their Oligomerization State on the Transport Properties" / AQPAssoc, Responsabil Proiect, **165,958 EUR** (2010-2012)

Coordinated:

- Program Nucleu PN16 30 02 03, "Cercetări de frontieră dedicate dezvoltării de tehnologii moleculare, Coordonator Proiect", **4,395,000 RON** (2016-2017)

References

Ioan Turcu, Ph.D., Scientific Researcher I

Dept. of Molecular and Biomolecular Physics, Department Head, INCDTIM
67-103 Donat, 400293, Cluj-Napoca, Romania
E-mail: ioan.turcu@itim-cj.ro

Matteo Ceccarelli, Ph.D., Associate Professor in Applied Physics

Dept. of Physics, Universita di Cagliari
S.P. Monserrato-Sestu Km 0.700, Complesso Univ. di Monserrato I-09042 Monserrato, CA, Italy
E-mail: matteo.ceccarelli@dsf.unica.it, URL: <http://people.unica.it/matteoceccarelli/>

Alemayehu A. Gorfe, Ph.D., Professor

Dept. Biologie Integrativă și Farmacologie, University of Texas-Health Science Center
6431 Fannin St., MSB 4.108, Houston, TX 77030, USA
E-mail: alemayehu.g.abebe@uth.tmc.edu, URL: https://www.uth.tmc.edu/agorfe_lab/

Manolis Doxastakis, Ph.D., Associate Professor

Dept. of Chemical and Biomolecular Engineering, University of Tennessee
Knoxville, TN 37996, USA
E-mail: edoxastakis@utk.edu, URL: <http://cbe.utk.edu/people/manolis-doxastakis/>

Ioan Kosztin, Ph.D., Professor of Physics

Dept. of Physics and Astronomy, University of Missouri-Columbia
308 Physics Building, College Avenue, Columbia, MO 65211, USA
E-mail: kosztini@missouri.edu, URL: <https://physics.missouri.edu/people/kosztini>

Gabor Forgacs, Ph.D., George H. Vineyard Alumni Professor of Theoretical Physics

Dept. of Physics and Astronomy, University of Missouri-Columbia
420 Physics Building, College Avenue, Columbia, MO 65211, USA
Scientific Founder and Chief Scientific Officer at Modern Meadow, Inc.
HQ: 340 Kingsland Str., Bldng. 102, Nutley, NJ 07110; Lab: 19 Morris Av., Brooklyn, NY 11205, USA
E-mail: forgacs@missouri.edu, URLs: <http://www.modernmeadow.com/>