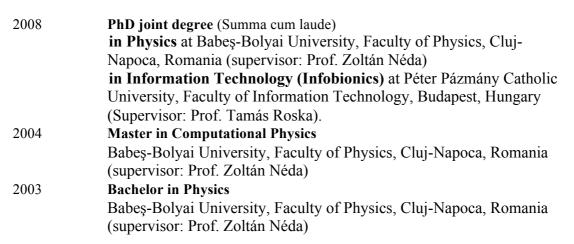
MÁRIA-MAGDOLNA ERCSEY-RAVASZ

PERSONAL INFORMATION

Date of birth: 11.09.1980 URL for web site: http://sirius.phys.ubbcluj.ro:33380/Ercsey-Ravasz

EDUCATION



CURRENT POSITION

2014 – Researcher Babeş-Bolyai University, Faculty of Physics, Romania

PREVIOUS POSITIONS

2012 - 2014	Research Fellow in a Marie Curie International Incoming Fellowship
	Babeş-Bolyai University, Faculty of Physics, Romania
2008 - 2011	Postdoc
	Department of Physics, Interdisciplinary Center for Network Science and
	Applications, University of Notre Dame, IN, USA
2011 - 2012	Principal Investigator in a Starting Research Grant funded by the
	Romanian Government
	Babeş-Bolyai University, Faculty of Physics, Romania

FELLOWSHIPS AND AWARDS

2014	UNESCO-L'Oreal Fellowship of Young Women Researchers in Romania
2011	Award of Young Researchers received from the Transylvanian Committee of
	the Hungarian Academy of Sciences, Romania
2007	Erasmus Fellowship, Faculty of Electrical Engineering, Catholic University
	of Leuven, Belgium
2003, Aug.	Short Term Research Fellowship, KFKI Central Research Institute of Physics,
	Budapest, Hungary
2003	Junior Bolyai János Award received from the Hungarian Academy of
	Sciences, Hungary



- 2003, Mar. Short Term Research Fellowship, Bergen Computational Physics Laboratory, Bergen, Norway
- 2002, Nov. Short Term Research Fellowship, Bergen Computational Physics Laboratory, Bergen, Norway

RESEARCH GRANTS

- 2012-2014 Marie Curie International Incoming Fellwoship, FP7-POEPLE-2011-IIF-299915. Project title: "Chaotic Cellular Neural/Nonlinear Networks for Solving Constraint Satisfaction"
- 2011-2014 Principal investigator of the Romanian Young Researcher's Grant PN-II-RU-TE-2011-03-121. Project title: "A continuous-time approach to constraint satisfaction: optimization hardness as transient chaos"
- 2012-2016 Principal investigator in a Partnership Project in Applicative Research funded by the Romanian UEFISCDI: PN-II-PT-PCCA-2011-3.2-0895. Project title: "Improving scientific evaluation through analysis of scientific networks".

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2011 – One Postdoc (Dr. Róbert Sumi)/ One PhD (Botond Molnár)/ One Master Student (Dávid Deritei)
Babeş-Bolyai University, Faculty of Physics, Romania

TEACHING ACTIVITIES

2011	Teacher of a Graduate Level Course - Introduction to Network Science,
	University of Notre Dame, IN, USA.
2006	Graduate Teaching Assistant - Evolution of Physics and Knowledge,
	Babes-Bolyai University, Romania
2006	Graduate Teaching Assistant - Numerical Methods in Physics, Babes-
	Bolyai University, Romania
2005	Graduate Teaching Assistant –Problem-solving tutorial in Quantum
	Mechanics I., Babes-Bolyai University, Romania
2004,2005	Graduate Teaching Assistant - Nonlinear Dynamical Systems, Péter
	Pázmány Catholic University, Romania

COMMISSIONS OF TRUST

2013	Reviewer for the UEFISCDI (Romanian Executive Agency for Higher
	Education, Research, Development and Innovation Funding) in the
	2013/2014 "Partnership Grants in Applicative Research" program
2008 - 2014	Referee for scientific journals: New Journal of Physics; Physical
	Review Letters; Physical Review E; PLoS One; European Physics
	Letters; European Physics Journal B; IEEE Circuits and Systems,
	Scientific Reports.
2014	Scientific Evaluator for the Romanian UEFISCDI in the midterm
	evaluation of "Starting Grants" and "Ideas" programs.
2014	President of the Physics Committee in the Transylvanian
	Committee of the Hungarian Academy of Sciences

MAJOR COLLABORATIONS

- 2008-Z. Toroczkai, University of Notre Dame, USA. Topics: Analysing and modelling the inter-areal cortical network; Solving optimization problems with transiently chaotic dynamical systems; Other studies related to complex networks, such as the USA roadway network. international food-trade network etc. 2008-H. Kennedy, K. Knoblauch, INSERM 846, Lyon, France; N. Markov, Yale University, USA; Topic: Analysing and modelling the inter-areal cortical network based on their retrograde tracing experimental data. 2013-E. Ravasz Regan, Harvard Medical School, Boston, USA; Topic: Dynamical modularity in the cell regulatory network. 2012-*R. Florian*, Romanian Institute of Science and Technology, Romania; Zs. Lázár, F. Járai-Szabó, Z. Néda, Babes-Bolyai University, Romania. Topic: Improving scientific evaluation through analysis of scientific networks.
- 2011-2012 J. Baranyi, Inst of Food Research, UK; Topic: Analysing the international food-trade network and its vulnerability.
- 2005-2006 *Gy. Szabó, A. Szolnoki*, KFKI Central Research Institute of Physics, Hungary. Topic: Game theory and population dynamical models.

ECHOES ABOUT RESEARCH RESULTS IN NEWS MEDIA

July 2011 "Research reveals brain network connections", Notre Dame Newswire July 13, 2011, Medical News Today, Eurekalert News, Science Daily News, Scientific Computing News, Bioscience Technology News July 14 2011. http://www.sciencedaily.com/releases/2011/07/110713161828.htm

> "Closer look at the brain network", Szabadsag ("Freedom") Daily Hungarian Newspaper in Cluj-Napoca, Romania.
> <u>http://www.szabadsag.ro/szabadsag/servlet/szabadsag/template/article%2CP</u> <u>ArticleScreen.vm/id/60953</u>
> "Notre Dame physicists propose solutions for constraint satisfaction

- October 2011 "Notre Dame physicists propose solutions for constraint satisfaction problems", Notre Dame Newswire, Physics today, October 7, 2011
- 2012 "The chaos within Sudoku" Huffington Post, Daily Mail, Romanian Income Magazin, Szabadság Daily News Paper, Antena 3 TV channel.

LANGUAGE SKILLS

Hungarian – maternal language; Romanian – advanced; English – advanced; German – beginner.

COMPUTING SKILLS

C, C++, Matlab, Mathematica. Network visualisation: Pajek, Cytoscape.