

# CURRICULUM VITAE

## Personal information

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**Nationality:** Hungarian  
**Citizenship:** Romanian, Hungarian  
**Date of birth:** June 5, 1986  
**Driving license:** cat. B – 2004

## Employment history

<b>Company</b>	Babeş-Bolyai University – Department Physics
<b>Period</b>	November 1, 2011 – <i>present</i>
<b>Position</b>	Research assistant
<b>Address</b>	M. Kogălniceanu Street 1, Cluj-Napoca
<b>Website</b>	<a href="http://www.phys.ubbcluj.ro">www.phys.ubbcluj.ro</a>
<b>Company</b>	FRSGlobal Romania SRL. – a Wolters Kluwer Financial Services Company
<b>Period</b>	February 21, 2011 – November 21, 2011
<b>Position</b>	Software Engineer
<b>Address</b>	Brâncuşi Street 74-76, Cluj-Napoca
<b>Website</b>	<a href="http://www.frsglobal.com">www.frsglobal.com</a>
<b>Company</b>	SC. EMedWare SRL.
<b>Period</b>	October 2009 – November 2010
<b>Position</b>	Software developer and company administrator
<b>Address</b>	Onisifor Ghibu Street 14, Cluj-Napoca
<b>Website</b>	<a href="http://www.emedware.eu">www.emedware.eu</a>
<b>Company</b>	SC. ODEON CINEPLEX SRL. – Cluj Napoca
<b>Period</b>	January 9, 2009 – June 20, 2009
<b>Department</b>	Box Office
<b>Address</b>	Maria Rosetti Street 49A, 3 <sup>rd</sup> floor, Bucharest
<b>Website</b>	<a href="http://www.odeoncineplex.ro">www.odeoncineplex.ro</a>

## Studies

2011-currently	<b>Faculty of Physics, Babes-Bolyai University</b> , PhD studies
2008-2010	<b>Faculty of Physics, Babes-Bolyai University</b> , Computational Physics Department ( <i>MSc studies</i> )
2005-2008	<b>Faculty of Physics, Babes-Bolyai University</b> , Physics-CS Department ( <i>BsC studies</i> )
2001-2005	<b>„Székely Mikó” Secondary School</b> , 9-12 classes, <b>Mathematics-CS</b> Department
2001-2004	<b>School of folk arts, piano-synthesizer</b> department
1997-2001	<b>„Székely Mikó” Secondary School</b> , 5-8 classes, <b>Mathematics</b> department
1993-1997	<b>„Székely Mikó” Secondary School</b> , 1-4 classes
2010	<b>Final examination from Faculty of Physics (<i>MSc</i>)</b> – title of the study: <i>Correlation clustering on frustrated networks studied with a stochastic renormalization method</i> – scientific conductor: <i>Dr. prof. Zoltán Néda</i>
2008	<b>State examination from Faculty of Physics (<i>BsC</i>)</b> – title of the study: <i>Optimal clusterization of frustrated networks studied by a stochastic renormalization method</i> – scientific conductor: <i>Dr. prof. Zoltán Néda and drd. Mária Ercsey-Ravasz</i>
2008	<b>English language exam – advanced level (<i>Centrul Alfa</i>)</b>
2005	<b>Baccalaureate exam</b>
2005	<b>German language exam</b>
2004	<b>Certificate from School of arts</b>

## Publications

2012	B. Molnár, Z. Toroczkai, M. Ercsey-Ravasz, " <i>Continuous-time Neural Networks Without Local Traps for Solving Boolean Satisfiability</i> ", <b>Proc. of the 13<sup>th</sup> IEEE Int. Conf. on Cellular Nanoscale Network and their Applications</b> , Torino, Italy
2009	Z. Néda, R. Sumi, M. Ercsey-Ravasz, M. Varga, B. Molnár, " <i>Correlation clustering on networks</i> ", <b>Journal of Physics A: Math. Theor. vol. 42, 345003</b>

## IT knowledge

Operating systems:	MS-DOS, Windows 3.1/95/98/2000/XP/Vista/7, Linux (Ubuntu, SuSe), Mac OS
Programming languages:	C, C++, C#, VB, Java, JavaScript, ActionScript, Mono, Fortran
Developer tools:	Microsoft Visual Studio 2005/2008/2010, Eclipse, Geany, MonoDevelop, MatLab, Wolfram Mathematica

Hardware knowledge: Advanced hardware knowledge (assembly, disassembly, troubleshooting, repairs)

Network/Infrastructure: HTTP, TCP/IP, infrastructure knowledge (building, configuring, troubleshooting, repairs)

Database knowledge: Access, MySQL, ORACLE

Multimedia: Adobe Flash (ActionScript), Adobe Photoshop, Adobe Premier, Adobe Audition, Corel suite, Propellerhead Reason, Steinberg Cubase, Steinberg Nuendo, 3DSMax

Web programming: HTML, JavaScript, JQuery, PHP, XML, DOM

Other: SVN, FireBug, Selenium. Cytoscape

## Professional achievement

2008-present musical director of the **Visszhang Students' Choir**

2013 participant at the **2013 Conducting Masterclass with Maestro Noam Zur**, Cluj

2012 presentation at the **CNNA2012** conference in Torino, Italy

2010 plenary talk at the **3<sup>rd</sup> Yalta Optimization Conference** in Yalta, Ukraine

2009 summer school at **IPP Summer University on Plasma Physics and Fusion Research** in *Max Planck Institut*, Greifswald, Germany

2009 Special Prize in **Complex Systems Physics Section of the 29<sup>th</sup> National Students' Scientific Conference** in Szombathely, Hungary

2008 presentation at the **Rodosz Conference** in Cluj

2008 presentation at the **Fall Scientific Conference organized by the Science Department of Transylvanian Museum Society** in Cluj

2008-2009 member of **Physics Department of Hungarian University Federation of Cluj**

2008 1<sup>st</sup> prize in **Physics Section of the 11<sup>th</sup> Transylvanian Students' Scientific Conference** in Cluj

2008 presentation at the **Eötvös Conference** in Budapest, Hungary

2007 presentation at the **Fall Scientific Conference organized by the Science Department of Transylvanian Museum Society** in Cluj

2007 presentation on the „**Körmöczi János**” **Physics Day** in Cluj

2007 professional practice at the **Atomic Power Plant**, at Paks, Hungary

2007-2008 member of **Pedagogy Department of Hungarian University Federation of Cluj**

2007-2008 member of **Physics Department of Hungarian University Federation of Cluj**

2007 presentation at the **Physics Department of Hungarian University Federation of Cluj**

2007 Special prize in **Pedagogy Section of the 10<sup>th</sup> Transylvanian Students' Scientific Conference**

2006-2007 member of **Physics Department of Hungarian University Federation of Cluj**  
2006-2007 member of **Pedagogy Department of Hungarian University Federation of Cluj**  
2004 presentation at the **Physics Department of Hungarian University Federation of Cluj**  
2005 visit at **CERN** (Geneva, Switzerland), **ILL** and **ESRF** (Grenoble, France)  
2005 student at **Faculty of Physics, Babeş-Bolyai University**  
2005 3<sup>rd</sup> prize at Physics Competition  
2004 Special prize at Physics Competition  
2002 3<sup>rd</sup> prize at Physics Competition  
1993-2005 student at „**Székely Mikó**” **Secondary School**, Sfântu Gheorghe

**Native language** Hungarian

**Foreign languages:**

**Romanian** – advanced level

**English** – advanced level

**German** – intermediate level