

CURRICULUM VITAE

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Personal

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 born 1984-01-03 in Eger, Hungary
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Education

2008/2009 Université de Rennes 1, France
 MSc in Mathematics
 Diploma thesis “Propriété de Wada et visualisation des attracteurs étranges”
 on strange attractors
 2002/2008 Budapest University of Technology and Economics (BME), Hungary
 MSc in Engineering-physics
 Diploma thesis “Adaptive speckle interferometry”
 on out-of-plane deformation measurement via speckle pattern correlation
 2004/2005 Tampere University of Technology (TTY), Finland
 Erasmus exchange student in physics and mathematics
 1996/2002 Fazekas Mihály Grammar School, Budapest, Hungary, mathematics department
 first-class school-leaving certificate, school medal

Language skills

Hungarian mother tongue
 English advanced
 French intermediate, TCF B1

Academic activities

from 2009-09-10 pre-doc fellow at Harvard–Smithsonian Center for Astrophysics, involved in the HATNet project, Cambridge, MA, USA
 2008-06/2008-07 chief editor of Math Explorations Part II, a middle school algebra textbook written at Texas State University, San Marcos, TX, USA
 2008-06-08/06-21 teaching assistant at Texas State University Junior Summer Mathcamp and assistant coach of the university team for the Hong Kong Primary World Mathematics Contest
 2008 spring course assistant for Calculus II for physics students, BME
 2007 autumn course assistant for Calculus I for physics students, BME
 2007-07/2007-08 research assistant at the Astrophysics Department of the American Museum of Natural History, New York, NY, USA
 2006 autumn teaching assistant for Probability Theory for electrotechnical students, BME
 2006 spring teaching assistant for Probability Theory II for physics students, BME
 2005 autumn, 2006 spring and 2006 autumn teaching assistant for the Pólya–Szegő mathematical problem solving seminar, a preparatory course for the International Mathematics Competition, BME
 2005-06-06/06-11 assistant coach of the Finnish and Estonian teams for the International Physics Olimpiad, Kuresaare, Estonia
 2005-01/2005-08 research assistant at the Nonlinear Optics Group, TTY
 2004 autumn teaching assistant for Computation Theory course, TTY

Scholarships

2008/2009 Scholarship of the French government
 2008/2009 Scholarship of Fondation Michel Métivier, Rennes
 2006-11-20/12-02 Scholarship of the French government for a research trip to ENS rue d’Ulm, Paris
 2004/2005 Erasmus scholarship for studying at TTY

Summer schools, conferences, study trips

- 2009-04-30/05-03 Member of the jury of NYIFFF national physics team contest, Szigliget, Hungary.
- 2008-01-25 Invited consultant on a board meeting of the Technical Advisory Committee of the Hungarian Education Research and Development Institute, Budapest, Hungary.
- 2007-07-01/07-21 Institute for Advanced Study–Park City Mathematics Institute Summer School on Statistical Mechanics, Park City, UT, USA. Courses taken on Brownian motion, Schramm–Loewner Evolution.
- 2006-11-20/12-02 Research trip to ENS rue d’Ulm, Paris, France. Research on stationary and time-dependent behaviour of Ising-models with focus on Glauber-dynamics.
- 2000-06-16/08-12 Ohio State University, Columbus, OH, USA. Arnold E. Ross Young Scholars Program: courses in Number Theory, Probability, Combinatorics.
- 1999-06-24/07-18 Southwest Texas State University, San Marcos, TX, USA. Honors Summer Math Camp: courses in Number Theory, Analysis, Mathematica. Talk given on generalization of isogonal point on the Spring Conference in 2000, on projective geometry and homogeneous coordinates in 2001.

Publications

- 2001-05 Számítógépes szimuláció a 13. Ortvy Rudolf Fizika Problémamegoldó Verseny egyik feladatához (Computer Simulation for a problem of the 13th Rudolf Ortvy International Competition in Physics) – Középiskolai Matematikai és Fizikai Lapok (High School Journal of Mathematics and Physics) Volume 51. 2001/5 pp. 304-308.
- 2000-05 Matek az óceánon túlról (Mathematics beyond the Ocean) – Középiskolai Matematikai és Fizikai Lapok (High School Journal of Mathematics and Physics) Volume 50. 2000/5 pp. 320-321.
- 2000-03 Beszámoló egy amerikai nyári matematikatáborról (Report on an American Mathematics Summer School) – A matematika tanítása (Teaching of Mathematics) Volume VIII. 2000/2 pp. 3-5.

University competition results

- Rudolf Ortvy International Competiton in Physics: special prize, honourable mention (2000), first prize (2005), first prize (2007)
- International Mathematics Competition for University Students: second prize (2004), second prize (2005), third prize (2006)
- University Mathematics Contest first prize (2004), first prize (2006)
- University Physics Contest special prize (2003)
- FIVE national physics team contest: 2nd (2002), 2nd (2005), 2nd (2007)
- NYIFFF national physics team contest: 5th (2003), 6th (2004), 2nd (2006), 1st (2007), 1st (2008)

Secondary school competition results

- 32nd **International Physics Olimpiad** (Antalya, Turkey): Bronze Medal, 82th (2001)
- 33rd **International Physics Olimpiad** (Bali, Indonesia): Gold Medal, 14th (2002)
- Arany Dániel National Mathematics Competition mathematics department rating: 1st (1999), 1st (2000)
- National Mathematics Competition mathematics department rating: 1st (2001), 15th (2002)
- Kürschák József National Mathematics Competition: second prize (2001)
- Mikola Sándor National Physics Competition: 7th (1999), 7th (2000)
- National Physics Competition: 3rd (2001), 3rd (2002)
- Eötvös József National Physics Competition: third prize (1999), thrid prize (2000), honourable mention (2001), second prize (2002)
- Fényes Imre Memorial Physics Competition: 27th (2001), 4th (2002)
- Szilárd Leó National Nuclear Physics Competition: 9th (2002)
- Fifth Romanian-Hungarian Pre-Olimpic Competiton: 1st (2001)
- Nemes Tihamér National Competiton in Computer Science: 14th (1999), 12th (2000), 7th (2001), 28th (2002)
- National Youth Science and Innovation Competition: accentuated honourable mention

Skills

Programming	C, GTK+, Matlab, Mathematica, Maple, bash script, php, Microchip PIC assembly, etc.
Sysadm	Linux: apache, bind, qmail, mailman, mysql, etc.
User skills	L ^A T _E X, gnuplot, GIMP, inkscape, etc.
Mechanical	tinkering, soldering, welding, bicycle maintenance
Sports and fun	cycling, unicycling, ultimate frisbee, 3-ball juggling, speleology and mountaineering

Voluntary activities

2002/2008	Hungarian Association of Physics Students: administration of the computer network organization of committee meetings organization of a field trip to CERN, ILL, ESRF
2005/2009	Critical Mass movement (Budapest, Hungary) for sustainable transportation and urban planning: organization of demonstrations
2007	Time's UP (New York, NY, USA) civil organization for promoting alternative transportation: bicycle maintenance
2008	Bike Cave (San Marcos, TX, USA) state-funded bicycle repair shop: bicycle maintenance