

C u r r i c u l u m V i t a e

György Vaszil

May, 2011

Personal

Family status: Married, father of three children (seven and five years, 21 months)

Languages: English, German, Hungarian (mother tongue)

Education

2001 Ph.D., Mathematics, Eötvös Loránd University, Budapest

1994 M.S., Mathematics and Computer Science, Eötvös Loránd University, Budapest

Employment

1997 – present Computer and Automation Research Institute of the Hungarian Academy of Sciences (MTA SZTAKI)

2001 – present *Senior research fellow*, member of the Theoretical Computer Science Research Group (called Research Group on Modeling Multi-Agent Systems before 2003)

1997 – 2001 *Research fellow*, member of the Research Group on Modeling Multi-Agent Systems

April – September, 2008 Member of the scientific staff at the Research Group on Information Processing and Communication (Prof. Helmut Jürgensen) at the University of Potsdam, Germany

Research

Research interests. Unconventional, nature motivated computing models and architectures. Formal languages and automata theory.

Publications. About 80 scientific papers in international publication forums, so far with more than 170 independent citations.

Invited talks at:

18. Theorietag Automaten und Formale Sprachen, September 30 - October 2, 2008, Wetttenberg-Launsbach bei Gießen, Germany.

Colloquium on the Occasion of the 50th Birthday of Victor Mitrană, June 26, 2008, Magdeburg, Germany.

10th International Workshop on the Descriptive Complexity of Formal Systems, DCFS 2008, July 16-18, Charlottetown, Canada.

ESF Workshop on Automata and Formal Languages for DNA Computation and Bioinformatics, October 18-20, 2006, Como, Italy.

International Workshop Grammar Systems 2000, July 3-7, 2000, Bad Ischl, Austria.

International experience:

Six months as the member of the scientific staff at the University of Potsdam, Germany, April - September, 2008.

Twelve months as a visiting researcher at the Otto-von-Guericke-University Magdeburg, Germany, with a research scholarship of the Alexander von Humboldt Foundation, 2006 - 2007.

One month as a visiting researcher at the Otto-von-Guericke-University Magdeburg and the University of Potsdam, Germany, 2001.

One month as a visiting researcher at the University of Turku, 1998.

One semester as an M.S. student at the University of Paderborn, Germany, April - August, 1993.

Talks at seminars at several universities, including the University of Opava (Czech Republic), the University of Sevilla and the University Rovira i Virgili in Tarragona (Spain), and the universities in Potsdam, Tübingen, Stuttgart, and Magdeburg (Germany).

Scholarships and awards

Return Scholarship of the Alexander von Humboldt Foundation, Germany, November 2006 - October, 2007.

Research scholarship of the Alexander von Humboldt Foundation, Germany, to spend 12 months at the Research Group Theoretical Computer Science (Prof. Jürgen Dassow), Otto-von-Guericke-University, Magdeburg, Germany, September, 2005 - August, 2006.

Bolyai János research scholarship of the Hungarian Academy of Sciences, 2001 - 2004.

Ph.D. fellowship of the Eötvös Loránd University, Budapest, 1994 - 1997.

TEMPUS fellowship to study one semester at the University of Paderborn, Germany, April - August, 1993.

Awards of the Computer and Automation Research Institute of the Hungarian Academy of Sciences: Award of the institute in 2009, 2005 and 2001; Young researchers' award in 1999; Ph.D. student award in 1996.

Professional activities

Organizer and program chair of the international workshop Automata for Molecular and Cellular Computing, ACMC'07, August 31, 2007, Budapest.

Member of conference program committees:

11th IEEE International Conference on Computer and Information Technology (CIT 2011), August 31 - September 2, 2011, Pafos Cyprus.

1st International Workshop on Learning, Agents and Formal Languages (LAFLang), August 22, 2011, Lyon, France.

5th International Conference on Language and Automata Theory and Applications (LATA 2011), May 26 - 31, 2011, Tarragona, Spain.

1st International Work-Conference on Linguistics, Biology and Computer Science: Interplays (LBCSI 2011), March 14 - 19, 2011, Tarragona, Spain.

5th International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems (Bionetics 2010), December 1 - 3, 2010, Boston, MA, USA, special track on Artificial Life and Bio-inspired Robotics (ALBR 2010).

2nd Workshop on Non-Classical Models of Automata and Applications (NCMA 2010), August 23 - 24, 2010, Jena, Germany.

12th International Workshop Descriptive Complexity of Formal Systems, August 8 - 10, 2010, Saskatoon, Canada.

10th IEEE International Conference on Computer and Information Technology (CIT-10), June 29 - July 1, 2010, Bradford, UK.

1st International Workshop on Computing Languages with Multi-Agent Systems and Bio-Inspired Devices - LAMAS 2010, January 23 - 24, 2010 - Valencia, Spain.

3rd International Workshop on Non-Classical Formal Languages in Linguistics, ForLing 2009, June 10 - 12, 2009, Salamanca, Spain.

11th IEEE International Conference on High Performance Computing and Communications (HPCC-09), June 25 - 27, 2009, Seoul, Korea.

10th IEEE International Conference on High Performance Computing and Communications (HPCC-08), September 25 - 27, 2008, Dalian, China, Biological/molecular computing track.

2nd International Workshop on Non-Classical Formal Languages in Linguistics, ForLing 2008, September 19 - 20, 2008, Tarragona, Spain.

9th Workshop on Membrane Computing, WMC9, July 28 - 31, 2008, Edinburgh, United Kingdom.

12th International Conference on Automata and Formal Languages, AFL 2008, May 27 - 30, 2008, Balatonfüred, Hungary.

34th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 08, January 19 - 25, 2008, Nový Smokovec, Slovakia, Computing by Nature track.

2nd International Workshop on Formal Models, WFM '07, April 23 - 25, 2007, Hradec nad Moravicí, Czech Republic.

Teaching experience

Ph.D. course “Nature motivated computational models” at the Faculty of Informatics, Eötvös Loránd University, Budapest, 2007 and 2009.

“Foundations of programming II.” (Grundlagen der Programmierung II.), Institute of Computer Science, University of Potsdam, Germany, 2008 (with Helmut Jürgensen).

“Formal languages and compilers”, Department of Mathematics and Informatics, Sapientia Hungarian University of Transylvania, Marosvásárhely (Targu-Mures), Romania, 2003, 2004 (with other lecturers from the Department of Computer Science and Information Theory of the Technical University, Budapest).

Lessons in “Formal languages and automata”, Department of Computer Science and Information Theory, Technical University, Budapest, 1996 - 2001.

Lessons in “Compiler construction”, Department of General Computer Science, Eötvös Loránd University of Sciences, Budapest, 1996.

Lessons in “Formal Languages and automata”, Department of General Computer Science, Eötvös Loránd University of Sciences, Budapest, 1995, 1997.

University activities

Ph.D. thesis referee and member of the examination board:

María Adela Grando, “Contributions of Formal Language Theory of the Study of Dialogues”, University Rovira I Virgili, Tarragona, Spain, 2009.

István Katsányi, “Formal models of molecular computations” (in Hungarian), Eötvös Loránd University, Budapest, Hungary, 2004.

Diploma thesis referee:

Marcel Goehring, “Modellierung von Szenarien aus dem Straßenverkehr mit Eco-Grammatiksystemen”, University of Potsdam, Germany, 2008.

Research grants

Principal investigator:

“Distributed models of molecular computation”, Hungarian Scientific Research Fund, “OTKA”, F037567, 2002 - 2005.

Participant:

“Nature-motivated computational models in the theory of formal languages and automata”, Hungarian Scientific Research Fund, “OTKA”, K75952, 2008 - 2012 (principal investigator: Erzsébet Csuhaj-Varjú).

“Formal language theoretic models in bio-molecular computation”, bilateral cooperation project between the Hungarian Foundation for Research and Technological Innovation and EGIDE in France, TÉT F-19/04, 2005 - 2006 (Hungarian project leader: Erzsébet Csuhaj-Varjú, French project leader: Maurice Margenstern).

“Bio-inspired computation: Formal language theoretic models”, Hungarian Scientific Research Fund, “OTKA”, T042529, 2003 - 2006 (principal investigator: Erzsébet Csuhaj-Varjú).

“MolCoNet, a Thematic Network in Molecular Computing”, European Commission, Information Society Technologies Program, IST-2001-32008, 2001 - 2004 (Hungarian team leader: Erzsébet Csuhaj-Varjú).

“Models of multi-agent systems”, bilateral cooperation project between the Hungarian Ministry of Education and the Federal Ministry of Education and Research in Germany, TÉT D-35/00, 2000 - 2002 (Hungarian project leader: Erzsébet Csuhaj-Varjú, German project leader: Jürgen Dassow).

“Nature-motivated computational models”, Hungarian Scientific Research Fund, “OTKA”, T029615, 1999 - 2002 (principal investigator: Erzsébet Csuhaj-Varjú).

“Computation by trees”, Hungarian Ministry of Education, MKM 665/97, 1997 - 1998 (principal investigator: Zoltán Fülöp).