

Curriculum Vitae of György Vaszil

September, 2026

Name: György Vaszil

Address: University of Debrecen, Faculty of Informatics,
Department of Computer Science
4028 Debrecen, Kassai út 26, Hungary

Phone : +36 52 512 900/75110

Mobile: +36 30 720 5585

Academic title, degree, qualification

2015 Habilitation, University of Debrecen

2014 D.Sc., Hungarian Academy of Sciences

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

1994 M.Sc. mathematics-computer science, Eötvös Loránd University
Budapest

Positions

2011 - University of Debrecen, Faculty of Informatics

2015 - Full professor

2013 - Head of the Department of Computer Science

2011 - 2015 Associate professor, Department of Computer Science

1997 - 2011 Computer and Automation Research Institute of the Hungarian Academy of Sciences
(MTA SZTAKI)

2001 - 2011 Senior research associate, Theoretical Computer Science Research Group

1997 - 2001 Research associate, Research Group on Modelling Multi-Agent Systems

2008, April – September: “Wissenschaftlicher Mitarbeiter” at the University of Potsdam (Institut für Informatik, Professur für Informationsverarbeitung und Kommunikation, Prof. Helmut Jürgensen), Germany

Research interests

Theoretical computer science, unconventional, nature motivated computational models and architectures, formal languages and automata theory.

Publications

More than 130 scientific papers in international journals and conferences, with more than 500 independent citations. See <https://vm.mtmt.hu/search/slist.php?AuthorID=10011531> for more details.

Scholarships and awards

Award of the Hungarian Academy of Sciences, 2021.

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 Lorand 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.

Research grants

Project leader:

“Unconventional computational models and their applications” (Nemklasszikus számítási modellek és alkalmazásaik), NKFIH (National Research, Development and Innovation Office) TÉT_16-1-2016-0193, Hungary - Japan, 2018-2019.

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

Participant:

“Distributed models in unconventional computing”, Hungarian Scientific Research Fund, “OTKA”, K120558, 2016 - 2022 (principal investigator: Erzsébet Csuha-Varjú).

Future Internet Research, Services and Technology – FIRST, TÁMOP-4.2.2.C-11/1/KONV-2012-0001, Theoretical foundations of Future Internet (sub-project leader: Attila Pethő)

"Nature-motivated computational models in the theory of formal languages and automata", Hungarian Scientific Research Fund, "OTKA", K75952, 2008 - 2014 (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).

Invited Speaker

International Conference on Membrane Computing and International Symposium on Artificial Intelligence and Intelligent Manufacturing, ICMC & AIIM 2025, September 19-21, 2025, Chengdu, China

24th Conference Information technologies -- Applications and Theory, ITAT 2024, September 20-24, 2024, Drienica, Slovakia

25th International Conference on Membrane Computing, CMC 2024, June 3-5 2024, Nice, France

13th International Workshop on Non-Classical Models of Automata and Applications, NCMA 2023, September 18-19 2023, Famagusta, North Cyprus

Workshop on Reaction Systems, satellite workshop of UCNC 2023, March 14 and 17, 2023, University of North Florida, USA

Workshop on Efficient Algorithms, Automata and Data Structures - EAADS 2019, November 20-21, 2019, Kosice, Slovakia.

Theorietage 2017, Automaten und Formale Sprachen, September 18 -22, 2017, Bonn, Germany

24. Theorietag Automaten und Formale Sprachen, September 23-25, 2014, Potsdam, Germany.

12th International Conference on Membrane Computing, CMC12, August 23-26, 2011, Fontainebleau, France.

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 Mitrana, June 26, 2008, Magdeburg, Germany.

10th International Workshop on Descriptive Complexity of Formal Systems, DCFS~2008, July 16-18, 2008, 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).

Professional activities

Member of the editorial board:

Acta Cybernetica (University of Szeged, ISSN 2676-993X, since 2024)

Scientific Annals of Computer Science ("Alexandru Ioan Cuza" University of Iași, eISSN 2248-2695, since 2022)

Publicationes Mathematicae (University of Debrecen, ISSN 0033-3883, since 2013)

Member of the steering committee of conferences:

Conference on Descriptive Complexity of Formal Systems, DCFS, annual conference series with the 27th edition in 2026 (since 2023)

Non-Classical Models of Automata and Applications, NCMA, yearly workshop series with the 16th edition in 2026 (since 2023)

Conference on Machines, Computations and Universality, MCU, a biennial conference series with the 11th edition in 2026 (since 2022)

Conference on Automata and Formal Languages AFL, organized in every 3rd year with the 17th edition in 2026 (since 2017)

International Conference on Membrane Computing, CMC, a yearly conference series with the 25th edition in 2026 (since 2014)

Program committee chair:

Informatics in Higher Education (Informatika a Felsőoktatásban - IF 2014), Debrecen, August 27-29, 2014

Program committee co-chair:

17th International Conference on Automata and Formal Languages (AFL 2026), Košice, Slovakia, September 7-10, 2026

25th International Conference on Descriptive Complexity of Formal systems (DCFS 2023), Potsdam, Germany, July 4-6, 2023

12th International Workshop on Non-Classical Models of Automata and Applications (NCMA 2022) Debrecen, August 26 - 27, 2022

24th International Conference on Descriptive Complexity of Formal systems (DCFS 2022), Debrecen, August 29 - 31, 2022

9th Conference on Machines, Computations and Universality (MCU 2022), Debrecen, August 31 - September 2, 2022

International Conference on Membrane Computing (ICMC 2021), Debrecen and Chengdu, China, August 25-26, 2021, online session

15th International Conference on Automata and Formal Languages (AFL 2017), Debrecen, September 4-6, 2017

8th Workshop on Non-Classical Models of Automata and Applications (NCMA 2016), Debrecen, August 29-30, 2016

13th International Conference on Membrane Computing (CMC13), Budapest, August 28-31, 2014

Organizer and program committee chair:

International Workshop Automata for Molecular and Cellular Computing, ACMC'07,
Budapest, August 31, 2007

Program committee member:

25th International Conference on Developments in Language Theory (DLT 2021), Porto,
Portugal

Information technologies -- Applications and Theory (ITAT), Workshop on Natural Computing,
in 2020, 2021, 2024, and 2025

Conference on Descriptive Complexity of Formal Systems (DCFS) in 2010, 2012, 2020, 2021,
2022, 2025, and 2026

International Conference on Applied Informatics (ICAI) in 2014, 2017, 2020, 2023, 2026

13th Joint Conference on Mathematics and Computer Science (MaCS 2020), Budapest,
Hungary

International Conference on Membrane Computing (ICMC) in 2014, 2015, 2016, 2017, 2019,
2020, 2021, 2023, 2024, 2026

Conference on Information Technology and Data Science (CITDS) in 2020, 2022, 2024, 2026

Workshop on Non-Classical Models of Automata and Applications (NCMA) in 2010, 2013,
2014, 2015, 2016, 2018, 2019

International Conference on Implementation and Application of Automata (CIAA) in 2014,
2016, 2019, 2024

LAFL 2016 : Special Session LEARNING, AGENTS AND FORMAL LANGUAGES of PAAMS 16 ,
Sevilla, Spain

7th Workshop on Membrane Computing and Biologically Inspired Process Calculi (MeCBIC
2014), Bucharest, Romania, September 16, 2014.

International Conference Automata and Formal Languages (AFL) in 2008, 2014, 2023

International Workshop on Learning, Agents and Formal Languages (LAFLang) in 2011, 2013

IEEE International Conference on Computer and Information Technology (CIT) in 2010, 2011

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), 2010. december 1 - 3. Boston, MA, USA, special track on Artificial Life and Bio-inspired Robotics (ALBR 2010).

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) in 2008, 2009

IEEE International Conference on High Performance Computing and Communications (HPCC) in 2008, 2009

4th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 08), Computing by nature track, January 19 – 25, 2008, Nový Smokovec, Slovakia

2nd International Workshop on Formal Models (WFM '07), April 23- 25, 2007, Hradec nad Moravicí, Czechia

Membership in professional societies:

European Molecular Computing Consortium
Computability in Europe (CIE)
IFIP Working Group 1.2 on Descriptive Complexity

Elected member:

Committee on Information Science of the III. Section of Mathematics of the Hungarian Academy of Sciences, vice chair 2018-2024, chair 2024 -

Doctoral Committee of the III. Section of Mathematics of the Hungarian Academy of Sciences, secretary 2016 -