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PERSONAL Born: 3 June 1971, Budapest, Hungary

DETAILS Citizenship: Hungarian

Sex: male

Marital status: single

EDUCATION ◇ **University of Oxford**

April 2004 - January 2008

D.Phil. in Computer Science

Thesis title: *Understanding tractable decompositions for constraint satisfaction*

Supervisor: Prof. Georg Gottob

◇ **Vienna University of Technology**, Austria

PhD student in Computer Science, 2001- (studies transferred to University of Oxford)

◇ **Eötvös Loránd University, Budapest**, Hungary

B.Sc. in Computer Science, 1993-1996

M.Sc. in Mathematics, Physics, 1989-1994

ACADEMIC ◇ **Vienna University of Technology**, Austria

AND Institute for Information Systems, Database and Artificial Intelligence Group

INDUSTRIAL Prof. Georg Gottlob

EXPERIENCE <http://www.dbai.tuwien.ac.at>

06.2005 - 12.2006

Researcher, FWF-founded project: Complementary Approaches to Constraint Satisfaction

◇ **Vienna University of Economics and Business Administration**, Austria

Institute for Information Systems, New Media Lab

Prof. Gustaf Neumann

<http://www.wu-wien.ac.at>

10.2002 - 05.2005

Researcher, EU-founded IST project: Elena, lecturer

◇ **Austrian Research Centers Seibersdorf**, Austria

<http://www.arcs.ac.at>

04.2002 - 09-2002 (part time)

Researcher, software developer

◇ **Vienna University of Technology**, Austria

Distributed Systems Group

<http://www.infosys.tuwien.ac.at>

Prof. Mehdi Jazayeri

11.2000 - 04.2002

Researcher, EU-founded IST project OPELIX

- ◇ **Siemens PSE**, Hungary, Austria (Budapest – Vienna)
<http://www.pse.siemens.hu>
1996 - 2000
Software developer, project manager, quality manager
- ◇ **IAESTE Internship**
Eesti Gas AG., Tallinn, Estonia
8.1996 - 9.1996
- OTHER TRAINING
 - Systems Biology Workshop, University of Oxford, 13 December 2006, Oxford
 - Science Entrepreneurship Training, Saïd Business School, Oxford
 - European Summer School in Logic, Language and Information (ESSLLI'2003), Technical University of Vienna, 18-29 August 2003, Study track: Logic and Computation
 - Project Management Training, Siemens, 1998
- AWARDS
 - ACM PODS 2007, “Best Paper Award”, together with Georg Gottlob and Thomas Schwentick
- TALKS
 - Generalized hypertree decompositions: NP-hardness and tractable variants. University of Dortmund, May 2007.
 - Generalized hypertree decompositions: NP-hardness and tractable variants. British Colloquium on Theoretical Computer Science, Oxford, April 2007.
 - Understanding tractable constraints. University of Oxford, Student conference, September 2006.
 - Hypertree decomposition. University of Dortmund, Germany, January 2006.
 - Hypertree decomposition. Philipps-Universität Marburg, Germany, August 2005.
 - ELENA: Creating a Smart Space for Learning. IST Workshop on Metadata Management in Grid and P2P Systems. (MMGPS'2003), University of London, 16 Dec. 2003, London.
 - Component-based Architecture for I-Commerce: The OPELIX Project, OMG (Object Management Group) Information Days, 7.3.2001 Vienna, 19.3.2001 Budapest.
- REFEREE
 - Principles of Database Systems, PODS'2008
 - Journal of Computer and System Sciences
 - Computer Science Logic, CSL'2007
 - Mathematical Foundations of Computer Science, MFCS'2007
 - Symposium on Theoretical Aspects of Computer Science, STACS'2006
- TEACHING EXPERIENCE
 - ◇ **University of Oxford**
 - running classes and teaching assistant for Prof. Georg Gottlob, Database Theory.
 - running Database practicals
 - ◇ **Vienna University of Economics**
 - supervising student seminar group-work, 2002-2005, in each semester
 - teaching the obligatory course “Databases and semi-structured data” (WS 2003-2004) for business informatics students
 - supervising 3 Master’s theses for business informatics students (together with Prof. Gustaf Neumann)
- LANGUAGE SKILLS
 - English, German: fluent spoken/written, Hungarian: native
- HOBBIES
 - reading, playing the piano, running/jogging, cooking, walking/hiking
- REFERENCE
 - Available on request.

- PUBLICATIONS Zoltán Miklós. On the parallel complexity of tractable structural CSP decompositions. (extended abstract) Algorithms and Complexity in Durham 2007. 17-19 September 2007, Durham, UK.
- Georg Gottlob, Zoltán Miklós, Thomas Schwentick. Generalized hypertree decompositions: NP-hardness and tractable variants. ACM PODS'2007, 26th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems. June 2007.
- B. Simon, S. Sobernig, F. Wild, S. Aguirre, S. Brantner, P. Dolog, G. Neumann, G. Huber, T. Klobucar, S. Markus, Z. Miklós, W. Nejdl, D. Olmedilla, J. Salvachua, M. Sintek, T. Zillinger: Building Blocks for a Smart Space for Learning, in: Proceedings of the 6th IEEE International Conference on Advanced Learning Technologies, July, 2006.
- Zoltán Miklós, Stefan Sobernig: Query Translation between RDF and XML: a case study in the educational domain. Workshop on Interoperability of Web-Based Educational Systems in conjunction with 14th International World Wide Web Conference (WWW'05). pp. 27-34, May, 2005, Chiba, Japan
- B. Simon, D. Massart, F. van Assche, S. Ternier, E. Duval, S. Brantner, D. Olmedilla, Z. Miklós A Simple Query Interface for Interoperable Learning Repositories, Workshop on Interoperability of Web-Based Educational Systems in conjunction with 14th International World Wide Web Conference (WWW'05). pp. 11-18, May, 2005, Chiba, Japan
- S. Decker, M. Sintek, A. Billig, N. Henze, P. Dolog, W. Nejdl, A. Harth, A. Leicher, S. Busse, J. Guy Suess, Z. Miklos, J. Ambite, M. Weathers, G. Neumann, and U. Zdun. Triple - and rdf rule language with context and use cases. In W3C Workshop on Rule Languages for Interoperability, Washington, D.C., USA, April 2005.
- Sandra Aguirre, Stefan Brantner, Gernot Huber, Sascha Markus, Zoltán Miklós, Alberto Mozo, Daniel Olmedilla, Joaquin Salvachua, Bernd Simon, Stefan Sobernig, Thomas Zillinger. Corner Stones of Semantic Interoperability Demonstrated in a Smart Space for Learning. Demo paper. 2nd Annual European Semantic Web Conference (ESWC'2005), Heraklion, Greece, June 2005.
- Bernd Simon, Peter Dolog, Zoltán Miklós, Daniel Olmedilla, Michael Sintek. Conceptualizing Smart Spaces for Learning. In Journal of Interactive Media in Education (JIME). 2004(9). Special Issue on the Educational Semantic Web. <http://www-jime.open.ac.uk/2004/9>
- Zoltán Miklós, Gustaf Neumann, Uwe Zdun, Michael Sintek. Querying Semantic Web Resources Using TRIPLE Views. In the Proceedings of the 2nd International Semantic Web Conference (ISWC'03). Springer LNCS 2870, pp. 517-532, 20-23 October 2003, Sanibel Island, Florida, USA.
- Bernd Simon, Zoltán Miklós, Wolfgang Nejdl, Michael Sintek, Joaquin Salvachua. Smart Space for Learning: A Mediation Infrastructure for Learning Services. In Proceedings of the Twelfth International Conference on World Wide Web (Alternate Paper Tracks), Budapest, Hungary, 20-24 May 2003.
- Zoltán Miklós: A Decentralized Authorization Mechanism for E-Business Applications. In Proceedings of the 13th International Workshop on Database and Expert Systems Applications (DEXA 2002) - International Workshop on Trust and Privacy in Digital Business - TrustBus, pp. 446-450, 2-6 September 2002, Aix-en-Provence, France.
- Zoltán Miklós: Towards an Access Control Mechanism for Wide-Area Publish/Subscribe Systems. In the Proceedings of the 22nd International Conference on Distributed Computing Systems, Workshops (ICDCSW '02) - DEBS - International Workshop on Distributed Event-Based Systems, pp. 516-524, July 2-5, 2002, Vienna, Austria.
- Manfred Hauswith, Mehdi Jazayeri, Zoltán Miklós, Ivana Podnar, Elisabetta Di Nitto, Andreas Wombacher. An Architecture for Information Commerce Systems. In the Proceedings of ConTEL2001- 6th International Conference on Telecommunications , June 13-15, 2001, Zagreb, Croatia.

PAPERS IN Georg Gottlob, Zoltán Miklós, Thomas Schwentick. Generalized hypertree decompositions:
PREPARATION NP-hardness and tractable variants. (full paper)

Zoltán Miklós. On the parallel complexity of tractable structural CSP decompositions. (full
paper)

On the complexity of the acyclic hypergraph sandwich problem. Co-authors: Vladimir
Gurvich, Georg Gottlob. (TU Wien, Technical report.)