

# MARIA MAGDALENA ORTIZ DE LA FUENTE

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Knowledge Based Systems Group (184/3)  
Institute of Information Systems  
Vienna University of Technology  
Favoritenstraße 11. 1040 Vienna, Austria  
Phone: +43-1-58801-18462  
Fax: +43-1-58801-18493  
Email: [ortiz@kr.tuwien.ac.at](mailto:ortiz@kr.tuwien.ac.at)  
<http://www.kr.tuwien.ac.at/staff/ortiz/>

Born July 18th, 1978. Puebla, Mexico  
Mexican/Spanish citizenship, Resident of Austria since October 2005  
Married; Children: Jonas Šimkus-Ortiz, born 04.05.2011; Lukas Šimkus-Ortiz, born 27.02.2013

**Research areas:** Computational logics for knowledge representation and reasoning, with emphasis on Description Logics. My current research focuses on the use of Description Logic ontologies in data access and data management, with focus on query languages, computational complexity, and algorithms.

## Education

- May 2010      **Doctor of Technical Sciences (Dr.techn.)**, Vienna University of Technology  
Promotion *with distinction*, 25 May 2010  
Subject: *Query Answering in Expressive Description Logics: Techniques and Complexity Results*
- July 2006      **European Masters in Computational Logic (M.Sc.)**, Joint degree  
Vienna University of Technology, Austria, *with Distinction*  
Free University of Bolzano, Italy, 110/110 *Cum Laude*
- December 2004      **Master of Science in Computer Systems Engineering (M.Sc.)**  
Universidad de las Américas, Puebla, Mexico. *Magna Cum Laude*
- June 2003      **Computer Systems Engineering (Lic.Ing.)**  
Universidad de las Américas, Puebla, Mexico. *Magna Cum Laude*
- June 1997      *Bachillerato* (High School Diploma) Colegio América de Puebla, Mexico (9.8/10)

## Employment

- Since Jan 2012      Project Assistant (Post-doctoral researcher),  
Principal investigator in Hertha-Firnberg Project *Recursive Queries over Semantically Enriched Data Repositories* (Austrian Science Fund (FWF) N23)  
Knowledge Base Systems Group, Institute of Information Systems, Vienna University of Technology (Project suspended Jan–Dec 2013 due to maternity leave)
- Jul 2010 – Feb 2011      University Assistant (Post-doctoral researcher)  
Knowledge Base Systems Group, Institute of Information Systems, Vienna University of Technology
- Sep 2006 – June 2010      University Assistant (Pre-doctoral researcher)  
Knowledge Base Systems Group, Institute of Information Systems, Vienna University of Technology
- Mar 2011 – Dec 2011 and Jan 2013 to Dec 2013      on maternity leave

## Projects

- Hertha-Firnberg project **Recursive Queries over Semantically Enriched Data Repositories** T515-N23, Austrian Science Funds (FWF). € 204.510, Granted Nov 2010.  
Project duration 01.01.2012–31.12.2015 (delayed start and interruption due to maternity)  
Principal Investigator and main applicant
- Doctoral college **Logical Methods in Computer Science** W1255, Austrian Science Funds (FWF). Granted Dec 2013. Faculty member. Participated the preparation of the application.
- Research project **Hybrid Knowledge Bases** (P20840), Austrian Science Funds (FWF). 01.07.2008-31.12.2012. Co-prepared the application and was one of the main researchers.
- European Master's Program **Computational Logic**, Erasmus Mundus Programme, European Commission. Contributed to the preparation of the re-application, granted in Aug 2010. Since Aug 2008 assistant for student support for the Program at the Vienna University of Technology.

I was one of the main people involved in preparing and carrying out the project Reasoning in Hybrid Knowledge Bases (FWF P20840). I have contributed to the research in the following EU funded research projects: ONTOlogies meet Business RULEs (FP7 231875 ONTORULE), Net2 - A Network for Enabling Networked Knowledge (FP7 247601 NET2), EU Network of Excellence for REasoning on the WEb with Rules and SEMantics (IST-506779 REWERSE).

## Awards, Grants and Scholarships

July 2014	EMCL Distinguished Alumni Award 2014 for outstanding contributions to the field of Computational Logic, granted by the Joint Commission of the European Master's Program in Computational Logic
December 2010	<i>Award of Excellence 2010</i> for outstanding dissertation, Austrian Federal Ministry for Science and Research
November 2010	<i>Hertha-Firnberg</i> research award from the Austrian Science Fund (FWF) Project: <b>Recursive Queries over Semantically Enriched Data Repositories</b>
November 2007	<i>ÖCG Förderpreis 2007</i> for distinguished Master Thesis in Computer Science, Austrian Computer Society
May 07	Google Europe Anita Borg Memorial Scholarship 2007
May 2007	<i>ÖGAI Preis 2006</i> for distinguished Master Thesis in a field of Artificial Intelligence, Austrian Society for Artificial Intelligence
10/06 – 10/10	Scholarship of the National Science and Technology Council, Mexico.
December 2006	Best Thesis Award, European Masters in Computational Logic
10/04 – 07/06	Erasmus Mundus Scholarship, European Commission
June 2005	Medal for the Best Average Grade in Masters Degree, Universidad de las Américas Foundation
08/03 – 12/04	<i>Excellence in Graduate Studies</i> Scholarship, Univ. de las Américas Foundation
08/97 – 06/03	<i>Americarum Universitas</i> Scholarship, Universidad de las Américas Foundation
08/02 – 05/03	Research fellowship, National Science and Technology Council, Mexico Project: <i>Access to high quality digital services for large communities of users.</i>

## University Services

Since Aug 2008     Assistant coordinator of the European Masters in Computational Logic

**Teaching.** Since 2010 I teach the Masters course *Processing of Declarative Knowledge*. In 2009 I participated in teaching the course with two other lecturers. I have also participated teaching in the exercises of the course *Introduction to Knowledge Based Systems* and in the seminar on *Scientific Work*.

**Supervision.** I have co-supervised the Master Thesis of Giorgio Stefanoni (Best Thesis Award of the Joint Consortium of the European Masters in Computational Logic 2011), Tran Trun Kien, and Domenico Carbotta.

## Academic Activities

- General co-chair, 27th International Workshop on Description Logics (DL 2013).
- Invited speaker, 7th Alberto Mendelzon Workshop on Foundations of Data Management, 2013.
- Invited lecturer, School of the 7th Alberto Mendelzon Workshop on Foundations of Data Management, 2013.
- Invited lecturer, 8th Reasoning Web Summer School, 2012. Data Management, 2013.
- Member of the Description Logics Steering Committee, elected for period 2010–2013
- Member of the Program committee:
  - 14th European Conference on Logics in Artificial Intelligence (JELIA 2014)
  - 21st European Conf. on Artificial Intelligence (ECAI 2014)
  - 14th Int. Conf. on Principles of Knowledge Representation and Reasoning (KR 2014)
  - 8th Int. Conf. on Web Reasoning and Rule Systems (RR 2014)
  - 8th Alberto Mendelzon Int. Workshop on Foundations of Data Management (AMW 2014)
  - 13th Mexican Int. Conf. on Artificial Intelligence (MICAI 2014)
  - 9th Latin American Workshop on Non-Monotonic Reasoning (LANMR 2014)
  - 26th Int. Workshop on Description Logics (DL 2013)
  - 7th Int. Conf. on Web Reasoning and Rule Systems (RR 2013)
  - 12th Mexican Int. Conf. on Artificial Intelligence (MICAI 2013)
  - 13th Int. Conf. on Principles of Knowledge Representation and Reasoning (KR 2012)
  - 26th AAI Conf. on Artificial Intelligence (AAAI 2012)
  - 26th AAI Conf. on Artificial Intelligence, *AI and the Web* Special Track (AIW 2012)
  - 6th Int. Conf. on Web Reasoning and Rule Systems (RR 2012)
  - 25th Int. Workshop on Description Logics (DL 2012)
  - 11th Mexican Int. Conf. on Artificial Intelligence (MICAI 2012)
  - 22nd Int. Conf. on Electronics, Communications and Computing (CONIELECOMP 2012)
  - 22nd Int. Joint Conf. on Artificial Intelligence (IJCAI 2011)
  - 24th Int. Workshop on Description Logics (DL 2011)
  - 10th Mexican Int. Conf. on Computer Science (ENC 2011)
  - 9th Mexican Int. Conf. on Artificial Intelligence (MICAI 2010)
  - 6th Latin American Workshop on Non-Monotonic Reasoning (LANMR 2010)
  - 22nd Int. Workshop on Description Logics (DL 2009)
  - 8th Mexican Int. Conf. on Artificial Intelligence (MICAI 2009)
  - 5th Latin American Workshop on Non-Monotonic Reasoning (LANMR 2009)
  - 4th Latin American Workshop on Non-Monotonic Reasoning (LANMR 2008)
  - 2nd Latin American Workshop on Non-Monotonic Reasoning (LANMR 2006)

- Reviewing for scientific journals including ACM Transactions on Computational Logic; Journal of Artificial Intelligence Research; Studia Logica; Journal of Computer and System Sciences; Journal of Automated Reasoning; IEEE Intelligent Systems; Journal of Web Semantics; Fundamenta Informaticae; Computer Journal; Theory and Practice of Logic Programming; Journal of Algorithms in Cognition, Informatics and Logic; Journal of Logic and Computation.
- Reviewing for many international conferences and workshops
- Co-chair for Logic and Computation, Student Session at 16th. European Summer School of Logic, Language and Information (ESSLLI'04)
- Research visits to Prof. Diego Calvanese, Free University of Bozen-Bolzano, Italy; Prof. David Pearce, Technical University of Madrid, Spain and *Rey Juan Carlos* University, Madrid, Spain; Information Management Group, University of Manchester.
- Seminars, invited presentations, and tutorials, including:  
invited presentation at the Moscow-Vienna Workshop on Logic and Computation 2009, Vienna University of Technology; KRDB Research Centre at the Free University of Bozen-Bolzano, Italy; Artificial Intelligence Department, Technical University of Madrid, Spain; Seminar of the Artificial Intelligence Group, University Rey Juan Carlos. Madrid, Spain; Information Systems Seminar, Oxford University Computing Laboratory, UK; Information Management Group, University of Manchester, UK; Tutorial lecture on Description Logics, Faculty of Computer Science, University Rey Juan Carlos, Madrid, Spain; Tutorial sessions of Knowledge Representation, Faculty of Computer Science, Autonomous University of Puebla, Mexico.
- Organization of the Student Workshop of the European Masters in Computational Logic, Vienna University of Technology, February 2010

## Languages

Spanish	Native speaker
English	Fluent
German	Fluent
Italian	Good (Level B1, European Common Reference Framework)
Lithuanian	Intermediate

September 29, 2014