

# MARIA MAGDALENA ORTIZ DE LA FUENTE

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*Born* July 18th, 1978. Puebla, Mexico.

*Citizenship* Mexican

## Education

- Since 2006 **Vienna University of Technology, Austria.**  
Doctoral Programme, Faculty of Informatics.  
Knowledge Based Systems Group.  
Expected graduation: Summer 2010.
- 2004–2006 European Masters in Computational Logic (Joint degree)  
**Free University of Bolzano, Italy.**  
Master of Science in Computer Science.  
Awarded in November 2006, 110/110 *Cum Laude*.  
**Vienna University of Technology, Austria.**  
Master of Science in Computational Logic.  
Awarded in July 2006, *with Distinction*.
- 2003–2004 **Universidad de las Américas, Puebla.**  
M. Sc. Computer Systems Engineering.  
Awarded in December 2004, *Magna Cum Laude*, 9.8/10.
- 1997–2003 **Universidad de las Américas, Puebla.**  
B. Sc. Computer Systems Engineering.  
Awarded in June 2003, *Magna Cum Laude*, 9.7/10.
- 2001–2002 **Eberhard Karl Universität Tübingen, Germany.**  
Wilhelm-Schickard-Institut für Informatik. Exchange Student.
- 1994–1997 **Colegio América de Puebla.** High school. June 1997, 9.8/10.

## Thesis

- June 2006 **Answering Conjunctive Queries in Expressive Description Logics.**  
*MSc Thesis. Supervised by Dr. Diego Calvanese and Dr. Thomas Eiter.*  
Vienna University of Technology, Austria. Free University of Bolzano, Italy.
- September 2004 **Nelson's Logics and the Answer Set Semantics.**  
*MSc Thesis. Supervised by Dr. Mauricio Osorio.*  
Universidad de las Américas, Puebla, Mexico.
- May 2003 **Formalizing the Learner Model for CSCL Environments in ASP.**  
*BSc Thesis. Supervised by Dr. Gerardo Ayala and Dr. Mauricio Osorio.*  
Universidad de las Américas, Puebla, Mexico.

## Publications

Diego Calvanese, Thomas Eiter, and Magdalena Ortiz. Answering regular path queries in expressive description logics: An automata-theoretic approach. In *Proc. of the 22nd Nat. Conf. on Artificial Intelligence (AAAI 2007)*, pages 391–396. AAAI Press, 2007.

Magdalena Ortiz. An Application of Answer Sets Programming for Supporting Collaboration in Agent-based CSCL Enviroments. In Balder Ten Cate, editor, *Proceedings of the Student Session of the 15th European Summer School of Logic, Language and Information (ESSLLI'03)*, Vienna, Austria, August 2003.

Magdalena Ortiz. ASP: from Application Development to Syntax Extensions. In Mauricio Osorio and Alessandro Provetti, editors, *Proceedings of the First Latin-American Workshop on Non-Monotonic Reasoning (LA-NMR'04)*, volume 92 of *CEUR Workshop Proceedings*, Mexico City, Mexico, April 2004.

Magdalena Ortiz. A Fully Internalized Sequent Calculus for Hybrid Categorical Logics. In Janneke Huitink and Sophia Katrenko, editors, *Proceedings of the Student Session of the 18th European Summer School of Logic, Language and Information (ESSLLI'06)*, pages 136–147, Malaga, Spain, August 2006.

Magdalena Ortiz, Gerardo Ayala, and Mauricio Osorio. Formalizing the Learner Model for CSCL Environments. In *Proceedings of the Fourth Mexican International Conference on Computer Science (ENC'03)*, pages 151–158, Tlaxcala, Mexico, September 2003. IEEE Computer Society and Mexican Society for Computer Science.

Magdalena Ortiz, Diego Calvanese, and Thomas Eiter. Characterizing Data Complexity for Conjunctive Query Answering in Expressive Description Logics. In *Proceedings of the Twenty-First National Conference on Artificial Intelligence (AAAI'06)*, pages 275–280. AAAI Press, July 2006.

Magdalena Ortiz, Diego Calvanese, and Thomas Eiter. Data Complexity of Answering Unions of Conjunctive Queries in *SHIQ*. In Bijan Parsi, Ulrike Sattler, and David Toman, editors, *Proceedings of the 2006 International Workshop on Description Logics (DL'06)*, volume 189 of *CEUR Workshop Proceedings*, pages 62–73, Lake District, UK, June 2006.

Magdalena Ortiz and Mauricio Osorio. Embedded Implications and Minimality in ASP. In Michael Hanus Ulrich Geske Dietmar Seipel and Oskar Bartenstein, editors, *Proceedings of the 15th International Conference on Applications of Declarative Programming and Knowledge Management (INAP'04)*, Postdam, Germany, March 2004.

Magdalena Ortiz and Mauricio Osorio. Nelson's Strong Negation, Safe Beliefs and the Answer Set Semantics. In Marina De Vos and Alessandro Provetti, editors, *Answer Set Programming: Advances in Theory and Implementation. Proceedings of the 3rd International Workshop on Answer Set Programming (ASP'05)*, volume 142 of *CEUR Workshop Proceedings*, Bath, UK, September 2005.

Magdalena Ortiz and Mauricio Osorio. Strong Negation and Equivalence in the Safe Belief Semantics. *Journal of Logic and Computation*, 17(3), 2007.

Mauricio Osorio, Magdalena Ortiz, and Claudia Zepeda. Using *cr*-Rules for Evacuation Planning. In *Proceedings of the Workshop of Deduction and Reasoning Techniques. IX Ibero-American Conference on Artificial Intelligence (IBERAMIA'04)*, pages 56–63, Puebla, Mexico, November 2004.

## Language Skills

Spanish	Native speaker.
English	Excellent. 2003 Institutional TOEFL. 670 pts. 1993 First Certificate in English. Cambridge University, UK. Grade A. 1990 Preliminary English Test. Cambridge University, UK.
German	Good (Level B2, European Common Reference Framework). More than three years of residence in German-speaking regions: Tübingen, Germany (2001-2002); South Tyrol, Italy (2004-2005); Vienna, Austria (2005-2007).
Italian	Fluent (Level B1, European Common Reference Framework). One year residence in Bolzano, Italy.
Nahuatl	Basic Knowledge (Mexican native language).

## Grants and Scholarships

05/07	Google Europe Anita Borg Memorial Scholarship 2007.
Since 10/06	Scholarship of the National Science and Technology Council, Mexico.
10/04 – 07/06	Erasmus Mundus Scholarship. European Commission.
08/03 – 12/04	<i>Excellence in Graduate Studies</i> Scholarship. Universidad de las Américas Foundation.
08/03 – 12/04	Telmex Scholarship. Telmex 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>
08/98 – 01/01	Telmex Scholarship. Telmex Foundation.

## Awards

November 2007	<i>ÖCG Förderpreis 2007</i> for the best Computer Science master thesis of the year. Austrian Computer Society.
May 2007	<i>ÖGAI Preis 2006</i> for the best master thesis of the year in a field of Artificial Intelligence. Austrian Society for Artificial Intelligence.
December 2006	Best Thesis Award. European Masters in Computational Logic.
November 2006	Nominated for the <i>Distinguished Young Alumnus/Alumna</i> Award. Faculty of Informatics, Vienna University of Technology.
June 2005	Medal to the Best Average Grade in Masters Degree. Universidad de las Américas Foundation.  <i>List of the Dean</i> (Award given to outstanding students). Universidad de las Américas Foundation. Academic cycles 97–98, 98–99, 99–00, 03–04.
February 1999	ACM Programming Contest. Mexico and Central America. Honourable Mention.
December 1996	X Mexican Mathematical Olympiad. National Stage. 3rd Place.

- October 1996 X Mexican Mathematical Olympiad. Regional Stage (Puebla). 1st Place.
- December 1995 IX Mexican Mathematical Olympiad. National Stage. 2nd Place.
- October 1995 Pierre Fermat Mathematics Contest. Finalist.
- July 1995 X Mexican Mathematical Olympiad. National Stage (Puebla). 1st Place.
- June 1995 IV contest Science Applied to Education. State University of Puebla. 2nd place.

## Activities

- September 2006 Program Committee. Second Latin American Workshop on Non-Monotonic Reasoning (LANMR'06). San Luis Potosí, Mexico.
- August 2006 18th. European Summer School of Logic, Language and Information (ESLLI'06). Presentation in the Student Session. Attended courses in the Logic and Computation track. Malaga, Spain.
- August 2004 Program committee; Co-chair for Logic and Computation. Student Session at 16th. European Summer School of Logic, Language and Information (ESLLI'04). Attended courses in the Logic and Computation track. Nancy, France.
- August 2003 15th. European Summer School of Logic, Language and Information (ESLLI'03). Presentation in the Student Session being undergraduate student. Attended courses in the Logic and Computation track. Vienna, Austria.
- February 1999 Organizing Committee. International Congress on Computer Systems Engineering. Universidad de las Américas. Puebla, Mexico.

## Work Experience

- 08/02 – 12/03 *Caja Depac Poblana S.C. Puebla, Mexico* (Micro-finances)  
Software development and technical support.
- 05/00 – 07/01 *Gedas North America. Puebla, Mexico*  
Software development. Technical Specialist, Java Group.
- 08/98 – 03/01 *Colegio América School. Puebla, Mexico*  
Coordinator of Projects for Community Service.

## Teaching

- 2000 Introduction to Probability.  
*Colegio América* High School. Puebla, Mexico.
- 1998 Mathematics.  
*San José Obrero* High School for Community Development. Puebla, Mexico.
- 1995 Mathematics.  
*Enrique de Ossó* School for adults. Puebla, Mexico.
- 1994-2002 Volunteer teaching of Basic Literacy, Mathematics and English for people with special learning needs, visually impaired, adults and older children in conditions of illiteracy and school desertion.

## Others

- Social Action Work of human promotion in diverse assistance and social development institutions with children, teenagers and senior citizens in conditions of emergency, poverty, or impairment.

## References

Prof. Dr. Thomas Eiter  
Institute of Information Systems  
Vienna University of Technology  
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Dr. Diego Calvanese  
Faculty of Computer Science  
Free University of Bozen-Bolzano  
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