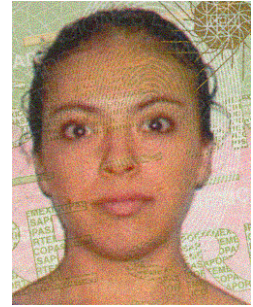


# Curriculum Vitae

## Personal Information

Name: Lluvia Carolina Morales Reynaga  
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## RESEARCH INTERESTS

Artificial Intelligence Applied to E-learning, Adaptive Web Based Systems, Automated Planning and Scheduling, Information Recovering, Decision Support Systems.

## ACADEMIC TRAINING

- 2008-2011 PhD in Computer Science and Information Technology
- 2006-2008 Master in Soft Computing and Intelligent Systems, University of Granada, Spain
- 2002-2006 Bachelor in Computer Science, University of Sonora, Mexico. Approved by the Spanish Government as Systems Engineer.
- 1999-2002 Computer Technician. Centro de Bachillerato Tecnológico, Industrial y de Servicios No. 11

## RESEARCH PROJECTS

- 2009 - 2011 TIN2008-06701-C03-02. PELEA. Planning Execution and LEarning Architecture
- 2009 - 2011 Research of Technologies for Integrated Management of migration (INTEGRA) CENIT 4<sup>a</sup> convocatoria (CDTI).
- 2008 (Conzepto Soluciones Creativas C257000). PAIF: Autonomous Planning of Learning Designs.
- 2005 - 2007 (Spanish) TIN2005-08945-C06-02. ADAPTAPLAN. Adaptation based on machine learning, user modelling and planning for complex user-oriented tasks. 2005-2007
- August to December 2005 Mexican Research Project: "Introducción a las Prácticas de Ingeniería de Software en los cursos de programación de computadoras de la Licenciatura en Ciencias de la Computación"

## PUBLICATIONS

- November 2010 *LMS Plan: An Architecture to Integrate Adapted Learning Sequences with LMS's*. Lluvia Morales, Jesús Miguel García-Gorrosieta. Workshop on Intelligent Learning Environments, MICAI 2010. Hidalgo, México.
- May 2010 *A Knowledge Engineering Methodology for Rapid Prototyping of Planning Applications*. Luis Castillo, Juan Fernandez-Olivares, Antonio González, Gonzalo Milla, David Prior, Lluvia Morales, José Figueroa, Víctor Pérez-Villar. 23rd International FLAIRS Conference.
- January 2010 *Adapted SCORM/AICC Objects*. Lluvia Morales, José Figueroa-Martínez, Luis Castillo. iMoot 2010.
- 2010 (International Journal Chapter) *LMS Plan: An Architecture to Integrate Adapted Learning Sequences with LMS's*. Lluvia Morales, Jesús Miguel García-Gorrosieta. Research in Computing Science: Special Issue on Advances in Artificial Intelligence. Vol. 51. pp 189-196.
- 2010 (International Journal Chapter) *Automatic generation of temporal planning domains for e-learning problems*. Luis Castillo, Lluvia Morales, Arturo González-Ferrer, Juan Fdez-Olivares, Daniel Borrajo, Eva Onaindía. Journal of Scheduling (ISSN: 1094-6136).

November 2009		<i>Planning for Conditional Learning Routes</i> . Morales, L., Castillo, L. and Fdez-Olivares. MICAI 2009: Advances in Artificial Intelligence
September 2009		<i>Modeling E-Learning Activities in Automated Planning</i> . Antonio Garrido, Eva Onaindia, Lluvia Morales, Luis Castillo, Susana Fernández, Daniel Borrajo. International Competition on Knowledge Engineering for Planning ICKEPS (Thessaloniki, GR) 2009.
2009 (International Journal Chapter)		<i>Fuzzy Contact Maps Overlap for Protein Comparison: the Roles of Fitness and Normalization and the relation with Crisp Contact Maps</i> . González, J.R., Pelta, D.A., and Morales, L. In <i>Mathware &amp; Soft Computing</i> , Vol 16, No 1 pp.87-102 (2009).
2009 (Book Chapter)		<i>Automatic Generation of Learning Designs: Two Planning Approaches Comparison</i> . Lluvia Morales. Advisors: Luis Castillo and Juan Fdez-Olivares. In <i>New Trends on Intelligent Systems and Soft Computing</i> , Vol 1.
October 2008		" <i>Modificación del Módulo SCORM para el Soporte Básico del IMS-LD</i> ". José Figueroa Martínez, Lluvia Morales, Luis Castillo. MoodleMoot Barcelona 2008.
September 2008		" <i>Fuzzy Contact Maps Overlap for Protein Comparison: the Roles of Fitness and Normalization</i> ". Lluvia Morales, Juan R. González, David Pelta. XIV Congreso Español sobre Tecnologías y Lógica Fuzzy.
July 2008		" <i>Automatic Generation of User Adapted Learning Designs: An AI-Planning Proposal</i> ". Lluvia Morales, et al. 5 <sup>th</sup> International Conference on Adaptive Hypermedia and Adaptive Web Based Systems.
July 2008		" <i>Workflow Planning for E-learning Center Management</i> ". Arturo González-Ferrer, Lluvia Morales, et al. The 8 <sup>th</sup> IEEE International Conference on Advanced Learning Technologies
November 2007		" <i>AI Planning and Scheduling Technology Transfer to Workflow Processes Automation</i> ". Juan Fernandez-Olivares, Lluvia Morales, et al. Workshop on Planning, Scheduling and Constraint Satisfaction CAEPIA'07.
November 2007		" <i>Knowledge engineering and planning for the automated synthesis of customized learning designs</i> ". L. Castillo, L. Morales, et al. CAEPIA07. Lecture Notes in Artificial Intelligence.
November 2007		" <i>Generating a Course Domain for Several Planner Types: a first approach</i> " in Doctoral Consortium of CAEPIA-TTIA07.
Julio (Conference and Journal)		<i>Pladiet: Un Sistema de Cómputo para el Diseño de Dietas Individualizadas Utilizando Algoritmos Genéticos</i> . Flores, P., Jiménez, I.J., Orozco, M.E., Galaviz, S., Raygoza, J.A., Morales, L., Ramírez, D., Cota, M.G., Espinoza, A. In: CISCI 2006 and Revista Iberoamericana de Sistemas Cibernética e Informática. V. 3 No. 2. ISSN 1690-8627
October 2005		Poster in Digital Art and Poster Presentation in XXI International Symposium of Education in Computation.

## TALKS

August 2010		Talk: "Planning and Scheduling" in Licenciatura en Ciencias de la Computación, UNISON.
June 2007		Talk: "Automatic Generation of planning Domains for e-learning courses" in Seminar on Problem solving and Applications in user-centric technologies.
November 2005		Talk: "Collaborative Learning Environment for Entity-Relationship Modeling". 3 <sup>o</sup> Semana Universitaria de Computación.
September 2005		Talk: "Algebra Modular y sus Aplicaciones en Teoría de Códigos". V Seminario de Estudiantes de Matemáticas.
October 2004		Talk: "Comunicación Segura en Redes y Código Libre". 2 <sup>o</sup> Semana Universitaria de Computación.

## MEMBERSHIPS

2011	Member of the Program Committee IJCAI'11
2010	Member of the program committee CINET 2010
2007 to date	Member of the program committee of CISCIO7, CISCIO8, CISCIO9, CISCIO10 and CISCIO11.

2006 to date	Member of the Department of Computer Science and Artificial Intelligence (DECSAI)
2007 to date	Member of the Intelligent System Research Group (ISG, TIC-175) funded by the Andalusian Regional Government

## PROFESSIONAL EXPERIENCE

February-March 2010	Tutor at the Distance Seminar: Artificial Intelligence Applied to education.
June to August 2010	Installation and Support of the Learning Platform for the Latin-American Seminar: Formación de Investigadores en Asuntos Públicos. UNISON.
June 2008 to date	Research Contract for the CENIT Project in technologies for management of migration.
July-November 2008	Fellowship for technical support in Conzepto Soluciones Creativas C257000. PAIF: Autonomous Planning of Learning Designs.
July-August 2005	Scientific Research Summer of the Mexican Academy of Sciences in Instituto Tecnológico de Monterrey campus Torreón, Coahuila with the research project: "Collaborative Learning Environment for Entity-Relationship Modeling" coordinated by Dr. Maria de los Angeles Costantino Gonzalez.
2005	Part of the Development Team of the ENOAN 2005 WebSite

## LANGUAGES

<i>English (TOEFL)</i>	80% Reading	80% Writing	70% Conversation
<i>French</i>	20% Reading	10% Writing	10% Conversation

## COMPUTING KNOWLEDGES

Office Packages:

- Microsoft Office XP (Word, Power Point, Excel, Access, Front Page)
- Open Office

Programming Languages: (mastering order)

<i>Language</i>	<i>Compilers, IDE's y (graphic) development environments.</i>
Python	Vim
C++	Visual C++, C#, Borland 5.02, Borland C++ Bulder 6, QT, vim
Java	Jcreator J3 LE, NetBeans 4.0, vim
PHP with HTML	Vim, Macromedia, Front Page.
Basic	Visual Basic 6.0, Visual Basic .NET
FoxPro	FoxPro for Windows, Visual FoxPro 7.0
Pascal	Pascal 7.0

Databases:

- MySQL
- Acces
- DB4O

## AWARDS AND SCHOLARSHIPS

June 2008	Scholarship from ADAPTAPlan project for a research visit to the group of Reasoning on Planning and Scheduling from Universidad Politécnica de Valencia.
November 2007	Scholarship award for CAEPIA doctoral consortium
<b>October 2006 to date</b>	Fellowship of Mexican National Council of Science and Technology (CONACYT)
November 2005	Third place in Tercera Feria de la Creatividad y Vinculación Universitaria en la categoría Científico Tecnológica con el proyecto: "Pladiet" Sistema Inteligente para la

	Planificación de Dietas.
February 2004	First Place in Feria de la Creatividad y Vinculación Universitaria, categoría Consultoría y Asesoría con el proyecto: "AGIRSA" Agencia de Gestión e Innovación Sonora-Arizona.
1999-2006	Scholarship of Sindicato de Trabajadores Académicos de la Universidad de Sonora (STAUS)
1996-2006	Scholarship of Fundación Esposos Rodríguez.
2004-2005	Scholarship of Fundación UNISON como parte del programa "Talento XXI"
July 2002	First Place of the Computer Technical High School age 2002.

## RECEIVED COURSES

February '08, '09 and '11	Seminar on New Trends on Intelligent Systems and Soft Computing
June 2007	Seminar on Problem Solving and Applications in User-Centric Technologies
February 2007	Seminar on New Trends on Intelligent Systems and Soft Computing
November 2005	Deploying a Web Application Server with High Performance (8 hrs.)
April 2005	Introduction to Genetic Algorithms (8 hrs.)
March 2005	How to implement a secure network? (8 hrs.)
March 2005	Computational Complexity and Approximation (6 hrs.)

## DISCLOSURE OF SCIENCE AND SOCIAL SERVICES

2008 - 2011	Social Service through teaching Spanish and Computing basis to immigrants at Cáritas Parroquial Santa María Micaela.
Noviembre del 2005	Part of the organizer committee of Tercera Semana Universitaria de Computación in University of Sonora.
Febrero-Julio del 2005	Social Service to provide advice to students in the course of computer programming and analyzing their progress through statistical methods.
Noviembre del 2004	Part of the organizer committee of Segunda Semana Universitaria de Computación in University of Sonora.
2001 -2002	Social Service computer laboratory technician in CBTIS'11.
2001 -2002	Social Service at folk dance group of CBTIS'11.
2001 -2002	Social Service at CBTIS'11 rondalla.