

# Amadeo Casas Cuadrado

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## PROFESSIONAL EXPERIENCE

**ElasticBox**, San Francisco, CA, USA.

*Co-Founder*

*February, 2012 - Current*

ElasticBox aims to simplify the creation of custom Platforms-as-a-Service, delivering a clutter-free developer self-service portal that allows monitoring resource consumption using a well-defined policy framework.

**Samsung R&D Center**, San Jose, CA, USA.

*Senior Research Engineer*

*January, 2011 - February 2012*

Research on OS for many-core and distributed systems:

- Implemented distributed shared memory models with different levels of consistency.
- Developed an easy-to-use task parallel language runtime for C/C++.

**Microsoft**, Redmond, WA, USA.

*Technical Program Manager*

*September, 2008 - December, 2010*

Design and development of core features in the area of serialization, configuration and service metadata in Windows Communication Foundation (WCF), shipped in .NET 4/4.5:

- Developed and tested simplified configuration techniques that reduced the burden of having to maintain large amounts of configuration files for WCF services in .NET 4.
- Drove the end-to-end adoption of the C# and Visual Basic asynchronous programming model in .NET 4.5, being WCF one of the first technologies in the .NET framework to support this model.
- Participated in tasks such as customer requirements gathering and analysis, resource planning, bug triage, Shiproom and Tactics representation, MSDN documentation and blogs, and customer servicing.

**University of New Mexico**, Albuquerque, NM, USA.

*Research Assistant*

*January, 2004 - August, 2008*

Research on automatic parallelization of logic programs:

- Designed and implemented new parallel annotation algorithms more performant than previous approaches.
- Developed a flexible high-level runtime framework for the execution of non-deterministic parallel logic programs, that aimed at reducing the complexity of previous solutions, while maintaining a reasonable performance.

**Telefonica R&D**, Valladolid, Spain.

*Software Developer*

*May, 2002 - August, 2003*

Development of applications and programming tools for Digital TV, with use of OpenTV and MHP APIs.

## EDUCATION

**University of New Mexico**, Albuquerque, NM, USA.

Ph.D., Engineering. September 2008.

Department of Electrical and Computer Engineering.

Advisor: Manuel V. Hermenegildo.

**University of New Mexico**, Albuquerque, NM, USA.

MBA, Finance Concentration. May 2008.

Robert O. Anderson School of Management.

**University of Valladolid**, Valladolid, Spain.

B.A., Computer Science. July 2003.

VISA STATUS	Permanent resident (do not need sponsorship).
HONORS AND AWARDS	Prince of Asturias Graduate Research Fellowship in Information Science and Technology at the University of New Mexico.
LANGUAGES	Spanish, native language. English.
ARTICLES IN REFERRED INTERNATIONAL CONFERENCES	<p>P. Chico de Guzman, A. Casas, M. Carro, M. Hermenegildo. <i>A Segment-Swapping Approach for Executing Trapped Computations</i>. The 14th International Symposium on Practical Aspects of Declarative Languages (PADL'12). January 2012.</p> <p>P. Chico de Guzman, A. Casas, M. Carro, M. Hermenegildo. <i>Parallel Backtracking with Answer Memoing for Independent And-Parallelism</i>. The 14th International Conference on Logic Programming (ICLP'11). July 2011.</p> <p>A. Casas, M. Carro, M. Hermenegildo. <i>A High-Level Implementation of Non-Deterministic, Unrestricted, Independent And-Parallelism</i>. The 24th International Conference on Logic Programming (ICLP'08). December 2008.</p> <p>A. Casas, M. Carro, M. Hermenegildo. <i>Towards a High-Level Implementation of Execution Primitives for Unrestricted, Independent And-parallelism</i>. The 10th International Symposium on Practical Aspects of Declarative Languages (PADL'08). January 2008.</p> <p>A. Casas, M. Carro, M. Hermenegildo. <i>Annotation Algorithms for Unrestricted Independent And-Parallelism in Logic Programs</i>. The 17th International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR'07). August 2007.</p> <p>A. Casas, D. Cabeza, M. Hermenegildo. <i>A Syntactic Approach to Combining Functional Notation, Lazy Evaluation and Higher-Order in LP Systems</i>. Eighth International Symposium on Functional and Logic Programming (FLOPS'06). April 2006.</p>
OTHER ACTIVITIES	Program committee member of Colloquium on Implementation of Constraint and Logic Programming Systems (CICLOPS'08, ICLP associated workshop). December 2008.
REFERENCES	Available upon request.