

**CONTACT INFORMATION**

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Affiliation: ITV and AdaptiveZ.  
SNI level: C

**PERSONAL INFORMATION**

Date of Birth: 31 Jul 1973.  
Place of Birth: Cd. Valles, S.L.P. Mexico  
Citizenship: Mexican  
Marital Status: Married  
Children: 2

**EDUCATION**

Jan 2009 **PhD on Computer Science**  
at the Technical University of Catalonia (UPC),  
Barcelona, Spain.  
2008 **Thesis:** "Optimization and functional Improvement of  
Disk Arrays (RAID systems)"  
**Thesis Advisor:** Dr. Toni Cortes Rossello.  
**Reading Place:** Technical University of Catalonia  
(UPC), Barcelona, Spain.  
**Reading Date:** November 2008.  
2004-2005: Achieving ASD (Advanced Studies Diploma) at UPC.  
2002-2004: Achieving 100% of PhD academic courses, UPC  
Barcelona, Spain.  
1996 Computer Science engineer degree at University of  
Tamaulipas. Cd. Mante, Mexico.

**MANAGEMENT POSITIONS**

2007 Manager of the storage system research group at the ITV.  
([www.adaptivez.org.mx/GISAA](http://www.adaptivez.org.mx/GISAA))  
2000-2001 Manager of Computer Center at Technical Institute of Cd.  
Valles, S.L.P.  
1998-2000. Manager of computer Laboratory at Technical Institute of  
Cd. Valles, S.L.P

**PUBLICATIONS**

- J. L. Gonzalez and Ricardo Marcelin-Jimenez.  
**Phoenix: a Fault-tolerant Distributed Web Storage based on URLs.** To appear at The 9th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA2011) May 26-28, 2011, Busan, Korea.

- J. L. Gonzalez, Toni Cortes, Jaime Delgado-Meraz, Ana Piedad Rubio. **HRaidTools: An on-line Suite of Simulation Tools for Heterogeneous RAID systems.** Third International Conference on Simulation Tools and Techniques (SIMUTools 2010), Malaga, Spain, March 2010.
- J.L. Gonzalez and Toni Cortes. **Distributing Orthogonal Redundancy on Adaptive Disk Arrays** In the proceedings book: International Conference on Grid computing, high-performance and Distributed Applications GADA08, Monterrey, México.
- J.L. Gonzalez and Toni Cortes. **Adaptive data placement based on deterministic zones (AdaptiveZ)** In the proceedings book: Lecture Notes in Computer Science Book Series: Lecture Notes in Computer Science, Springer Berlin / Heidelberg ISSN 0302-9743 (Print) 1611-3349 (Online) Volume 4804/2007.  
Ref: 4 references
- J.L. Gonzalez and Toni Cortes. **Adaptive data placement based on deterministic zones (AdaptiveZ)** In the proceedings book: International Conference on Grid computing, high-performance and Distributed Applications (GADA'07). Vilamoura, Algarve, Portugal, Nov 29 - 30, 2007  
Ref: 4 references
- J.L. Gonzalez and Toni Cortes. **Evaluating the Effects of Upgrading Heterogeneous Disk Arrays.** In the proceedings book: International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2006) Calgary, Canada, July 31 - August 2, 2006.  
Ref: 5 references, Best Paper Award.
- J.L. Gonzalez and Toni Cortes. **Increasing the capacity of Raid5 by online gradual assimilation.** In the proceedings book: International Workshop on Storage Network Architecture and Parallel I/Os. Antibes Juan-les-pins, France, September 30, 2004.  
Ref: 13 references

**AWARDS & RECOGNITIONS**

|      |   |
|------|---|
| 2010 | <ul style="list-style-type: none"> <li>• <b>Perfil deseable Promep</b></li> </ul>   |
| 2009 | <ul style="list-style-type: none"> <li>• <b>SNI level C</b></li> </ul>  |
| 2006 | <ul style="list-style-type: none"> <li>• Best Paper Award for Computers Systems area to "Evaluating the Effects of Upgrading Heterogeneous Disk Arrays" in the Summer Simulation Multi-Conference 2006 (SPECTS06) of supported by the society for Modeling and Simulation International (SCS), at Calgary, Canada.</li> </ul> |

**Prototypes and Development**

|           |   |
|-----------|---|
| 2010      | <ul style="list-style-type: none"> <li>• Phoenix: a Fault-tolerant Distributed Web Storage based on URLs. <a href="http://www.adaptivez.org.mx">www.adaptivez.org.mx</a></li> </ul> |
| 2009-2010 | <ul style="list-style-type: none"> <li>• NeneK: A Virtual Communities Architecture of</li> </ul>  |

|      |  |
|------|--|
|      | Indigenous Speakers for Archiving linguistic and cultural digital assets. <a href="http://www.nenex.mx">www.nenex.mx</a>   |
| 2009 | <ul style="list-style-type: none"> <li>• HRaidTools: A Simulation Tool for Heterogeneous Raid Systems. <a href="http://www.adaptivez.org.mx/HT">www.adaptivez.org.mx/HT</a></li> </ul>                     |
| 2009 | <ul style="list-style-type: none"> <li>• TreeWeb: Dynamic Webpages Generator</li> </ul>  |
| 2009 | <ul style="list-style-type: none"> <li>• TreeStore: Distributed Storage system based on Adaptive Redundancy. <a href="http://www.adaptivez.org.mx/TreeStore">www.adaptivez.org.mx/TreeStore</a></li> </ul> |

**RESEARCH SKILLS**

Extensive Knowledge of Parallel disks systems, block distributions on homogeneous and heterogeneous storage systems in distributed environments, design of adaptive data placement methods for disk arrays, architecture of storage-systems simulators and building modules for distributing blocks on RAID systems.

**LANGUAGES**

|         |   |
|---------|---|
| Spanish | Mother tongue                             |
| Catalan | Understanding, Speaking, and Writing.     |
| English | Understanding, Speaking, and Writing.     |
| Italian | Understanding and Speaking at basic level |

**TEACHING EXPERIENCE**

Applications for distributed environments

Distributed Data Bases

Programming topics

Systems Analysis and design (part I and II).

Basic concepts of Computer Networks.

Computer Networks.

Management of Computer Networks.

Operating Systems (part I and II).

Data structures (part I and II).

Computer Maths

C Programming.

**REFERENCES**

Dr. Toni Cortes  
 Associate Professor at the Computer Architecture Department (DAC) in the Universitat Politècnica de Catalunya (UPC).  
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 UPC - Campus Nord - C6/118

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Spain.

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Prof. Dr.-Ing. at Heinz Nixdorf Institut.  
Universität Paderborn, Germany  
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