

Hector Llorens

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Education

- 2011 **Ph.D. degree in Computer Science (EU)**, “A Semantic Approach to Temporal Information Processing”, University of Alicante, Spain.
- 2008 **Master of Advanced Studies in Computer Science (quality mention)**, “Question Answering Based on Semantic Roles”, University of Alicante, Spain.
- 2007 **Master Course in Hardware and Embedded Computing**, University of Alicante, Spain.
- 2007 **Certificate of Pedagogic Aptitude (CAP)**, 200h+100h, University of Alicante and IES S.Vicente, Spain.
- 2006 **Expert on Robotics and Computer Vision (240h)**, University of Alicante, Spain.
- 2006 **Engineer in Computer Science**, University of Alicante, Spain.

Fellowships and Grants

- 2007–2011 **Predocctoral Grant (4 years)**, Ministry of Science and Innovation, Spanish Government, Spain.
- 2007 **Predocctoral Grant (3 months)**, Dept. of NLP, University of Alicante, Spain.

International Experience

- 2011 **Predocctoral Research Stay (3 months)**, Prof. James Allen, University of Rochester, NY, USA.
- 2010 **Predocctoral Research Stay (3 months)**, Prof. Robert Gaizauskas, University of Sheffield, UK.
- 2005 **English Course (1 month)**, Regent School, Brighton, UK.

Teaching

- 2010–2011 **Computation for Architectural Engineering (60h) (eval 7)**, Collaborating Professor, University of Alicante, Spain.
- 2010–2011 **Foundations of Data Bases (30h) (eval 8)**, Collaborating Professor, University of Alicante, Spain.
- 2010–2011 **Data Bases I (30h)**, Collaborating Professor, University of Alicante, Spain.
- 2009–2010 **Data Bases I (60h)**, Collaborating Professor, University of Alicante, Spain.

Participation in Research Projects

- 2010–2012 **TEXT-MESS 2.0**, TIN2009-13391-C04, University of Alicante, Spanish Government.
- 2006–2009 **TEXT-MESS**, TIN2006-15265-C06, University of Alicante, Spanish Government.
 - 2010 **TLH ante los nuevos retos de la comunicación digital**, ACOMP10/286, University of Alicante, Conselleria.
 - 2007 **Representación e inferencia de conocimiento en TLH**, ACOMP07/061, UA, Conselleria (grant holder).
 - 2011 **Procesamiento del lenguaje y sistemas de información**, VIGROB-100, University of Alicante.
 - 2010 **Procesamiento del lenguaje y sistemas de información**, VIGROB-100, University of Alicante.

Languages

- English **B2**, Cambridge FCE (2007).
- Spanish **Native**, Native speaker.
- Catalan **Native**, JQCV Mitjà (1999).

Work Experience

- 2007–2011 **Pre-Doctoral Researcher (4 years)**, *Natural Language Processing Research*, Java, PHP5, Javascript, CSS, Perl, Python, Shell scripting, Unix, University of Alicante, Spain.
- 2004–2006 **I+D/Developer (6 months)**, *Vigilant, Radiobit Sistemas S.L.*, Web/HW Apps (PHP 4 y 5, MySQL, HTML, CSS, Javascript, Apache2, WordPress, Drupal), *Benidorm*, Spain.

Publications

- Hector Llorens, Estela Saquete, and Borja Navarro. Syntax-motivated context windows of morpho-lexical features for learning time and event expression recognizers in natural language. In *NLDB*, volume 6716 of *LNCS*, pages 295–299. Springer, 2011. ISBN: 978-3-642-22326-6.
- Hector Llorens, Estela Saquete, Borja Navarro, Liu Li, and Zhongshi He. Data-Driven Approach Based on Semantic Roles for Recognizing Temporal Expressions and Events in Chinese. In *NLDB*, volume 6716 of *LNCS*, pages 88–99. Springer, 2011. ISBN: 978-3-642-22326-6.
- Tommaso Caselli, Hector Llorens, Estela Saquete, and Borja Navarro. Data-Driven Approach Using Semantics for Recognizing and Classifying TimeML Events in Italian. In *International Conference on Recent Advances in Natural Language Processing (RANLP)*, pages 533–538, 2011. ISSN: 1313-8502.
- Hector Llorens. *A Semantic Approach to Temporal Information Processing*. PhD thesis, University of Alicante, Spain, 2011.
- Hector Llorens, Estela Saquete, Borja Navarro, and Robert Gaizauskas. Time-surfer: Time-based graphical access to document content. In *ECIR*, volume 6611 of *LNCS - Advances in Information Retrieval*, pages 767–771. Springer, 2011. ISBN: 978-3-642-20160-8.
- Elena Lloret, Hector Llorens, Paloma Moreda, Estela Saquete, and Manuel Palomar. Text summarization contribution to semantic question answering: New approaches for finding answers on the web. *International Journal of Intelligent Systems*, 26(12):1125–1152, 2011. ISSN: 0884-8173.
- Paloma Moreda, Hector Llorens, Estela Saquete, and Manuel Palomar. Combining semantic information in question answering systems. *Information Processing & Management*, 47(6):870–885, 2011.
- Hector Llorens, Estela Saquete, and Borja Navarro-Colorado. TimeML Events Recognition and Classification: Learning CRF Models with Semantic Roles. In *Proceedings of the 23rd International Conference on Computational Linguistics (Coling 2010)*, pages 725–733, 2010. ISBN: 978-7-900268-00-6.
- Hector Llorens, Estela Saquete, and Borja Navarro-Colorado. TIPSem (English and Spanish): Evaluating CRFs and Semantic Roles in TempEval-2. In *Proceedings of the 5th International Workshop on Semantic Evaluation*, pages 284–291. ACL, 2010. ISBN: 978-1-932432-70-1.
- Hector Llorens, Estela Saquete, and Borja Navarro. Aplicación de los Roles Semánticos a la identificación de Expresiones Temporales. Jornadas TIMM, Madrid, 2009.
- Hector Llorens, Estela Saquete, and Borja Navarro. Temporal Expression Identification based on Semantic Roles. In *the 14th International Conference on Applications of Natural Language to Information Systems (NLDB)*, pages 230–242. LNCS, 2009. ISBN: 978-3-642-12549-2.
- Hector Llorens, Borja Navarro, and Estela Saquete. Detección de Expresiones Temporales TimeML en Catalán mediante Roles Semánticos y Redes Semánticas. In *Procesamiento del Lenguaje Natural (SEPLN)*, volume 43, pages 13–21, 2009. ISSN: 1135-5948.
- Hector Llorens, Borja Navarro, and Estela Saquete. Using Semantic Networks to Identify Temporal Expressions from Semantic Roles. In *VI International Conference on Recent Advances in Natural Language Processing (RANLP)*, pages 219–224, 2009. ISSN: 1313-8502.
- Hector Llorens, Borja Navarro, and Estela Saquete. From Semantic Roles to Temporal Information Representation. In *the 8th Mexican International Conference on Artificial Intelligence (MICAI)*, volume 5845 of *LNAI, LNCS*, pages 124–135. Springer, 2009. ISBN: 978-3-642-05257-6.
- María Pardiño, José Gómez, Hector Llorens, Rafael Muñoz-Terol, Borja Navarro-Colorado, Estela Saquete, Patricio Martínez-Barco, Paloma Moreda, and Manuel Palomar. IBQAst: A Question Answering System for Text Transcriptions. In *Evaluating Systems for Multilingual and Multimodal Information Access, CLEF 2008*, volume 5706 of *LNCS*, pages 488–491. Springer, 2009. ISBN: 978-3-642-04446-5.
- Estela Saquete, José Luis Vicedo González, Patricio Martínez-Barco, Rafael Muñoz, and Hector Llorens. Enhancing QA Systems with Complex Temporal Question Processing Capabilities. *Journal of Artificial Intelligence Research (JAIR)*, 35:775–811, 2009. ISSN: 11076-9757.
- Paloma Moreda, Hector Llorens, Estela Saquete, and Manuel Palomar. The influence of semantic roles in QA: a comparative analysis. In *Procesamiento del Lenguaje Natural (SEPLN)*, volume 41, pages 55–62, Madrid, Spain, December 2008. ISSN: 1135-5948.
- Paloma Moreda, Hector Llorens, Estela Saquete, and Manuel Palomar. Automatic Generalization of a QA Answer Extraction Module Based on Semantic Roles. In *AAI - IBERAMIA*, volume 5290 of *LNAI, LNCS*, pages 233–242. Springer, December 2008. ISBN: 978-3-540-88308-1.

Paloma Moreda, Hector Llorens, Estela Saquete, and Manuel Palomar. Two Proposals of a QA Answer Extraction Module Based on Semantic Roles. In *AAI - MICAI*, volume 5317 of *LNAI, LNCS*, pages 174–184. Springer, December 2008. ISBN: 978-3-540-88635-8.

M. Pardiño, J. M. Gómez, Hector Llorens, Rafael Muñoz, Borja Navarro, Estela Saquete, P. Martinez-Barco, Paloma Moreda, and Manuel Palomar. Adapting IBQAS to work with text transcriptions in QAsT Task: IBQAsT. In *Cross Language Evaluation Forum (CLEF)*, December 2008.

Sergio Cuenca, H. Ramos, Hector Llorens, and P. Macia. Reconfigurable Architecture for Embedding Web Services. In *Proceedings of the IEEE 4th Southern Conference on Programmable Logic (SPL)*, pages 119–124. IEEE, March 2008. ISBN: 978-1-4244-1992-0.

Felipe Restrepo, Hector Llorens, and Sergio Cuenca. Implementación en FPGA de una cámara IP. In *Actas de las Jornadas JCRA*, pages 95–106. Thomson, 2008. ISBN: 978-84-612-5635-8.

Sergio Cuenca, A. Grediaga, Hector Llorens, and M. Albero. Performance Evaluation of FPGA-Embedded Web Servers. In *Proceedings of the IEEE 14th International Conference in Electronics, Circuits and Systems (ICECS)*, pages 1187–1190. IEEE, December 2007. ISBN: 1-4244-1378-8.

Sergio Cuenca, Hector Llorens, and M. Albero. Evaluación de servidores web embebidos sobre FPGAs. In *Actas de las VII Jornadas de Computación Reconfigurable y Aplicaciones (JCRA) del II Congreso Español de Informática (CEDI)*, pages 221–228. Thomson, September 2007. ISBN: 978-84-9732-600-1.

Hector Llorens, X. Ivars, A. Buiges, M. Cabo, P. Climent, and A. Fuster. *Hogar Digital. El camino de la domótica a los ambientes inteligentes. I Encuentro Interdisciplinar de Domótica (EID05)*, chapter DomoSim, Simulador de sistemas domóticos, pages 119–126. S.P. Universidad de Alicante, Alicante, Spain, 2006. ISBN: 84-611-1523-6.

Patents and Registrations

- 2011 **TIPSem software (Java, Perl)**, *Temporal Information Processing System*, reg.A-730-10, University of Alicante, Spain.
- 2011 **Time-Surfer software (PHP5, Javascript, CSS, HTML5)**, *Time-based Graphical Interface*, reg.A-300-11, University of Alicante, Spain.

Participation in Technology Transfer – I+D Contracts and Licenses

- 2011 **Time-Surfer for Radiobit Sistemas S.L.**, *One year paid license*, University of Alicante, Spain.

Conference Organization

- 2012 **LREC**, *Scientific Committee (Reviewer – information extraction track)*, Istanbul, Turkey.
- 2011 **IJCNLP**, *Scientific Committee (Reviewer – information extraction track)*, Chiang Mai, Thailand.
- 2011 **TempEval-3 SemEval-ACL**, *Organization Committee (co-organization with Uzzaman, Allen, Pustejovsky, and Verhagen)*, Pending Location, .

Participation in Conferences and Courses

Conferences

- 2011 **NLDB**, *Attendance, Lecture, and Poster*, Alicante, Spain.
- 2011 **ECIR**, *Attendance and Poster/Demo*, Dublin, Ireland.
- 2010 **ACL**, *Attendance (main conf.) and Lecture (SemEval workshop)*, Uppsala, Sweden.
- 2009 **MICAI**, *Attendance and Lecture*, Guanajuato, Mexico.
- 2009 **RANLP**, *Attendance and Lecture*, Borovets, Bulgaria.
- 2009 **SEPLN**, *Attendance and Lecture*, San Sebastián, Spain.
- 2009 **NLDB**, *Attendance and Lecture*, Saarbrücken, Germany.
- 2009 **TIMM**, *Attendance and Lecture*, Madrid, Spain.
- 2008 **MICAI**, *Attendance and Lecture*, Mexico City (DF), Mexico.
- 2008 **IBERAMIA**, *Attendance and Lecture*, Lisbon, Portugal.
- 2008 **SEPLN**, *Attendance*, Madrid, Spain.
- 2007 **IEEE ICECS**, *Attendance and Lecture*, Marrakesh, Morocco.
- 2007 **CEDI - JCRA**, *Attendance and Lecture*, Zaragoza, Spain.

2005 **Multidisciplinary Domotics (EID)**, *Attendance and Lecture*, University of Alicante, *Spain*.

Courses

2011 **Knowledge2Innovation**, *16h*, University of Alicante, *Spain*.

2011 **Information Extraction (lecture)**, *8h*, University of Alicante, *Spain*.

2009 **Undertaking IT projects**, *8h*, University of Alicante, *Spain*.

2009 **NLP Summer course**, *30h*, University of Basque Country, *Spain*.

2008 **LaTeX text editing**, *30h*, University of Alicante, *Spain*.

2005 **Image editing**, *30h*, University of Alicante, *Spain*.

2005 **Multidisciplinary Domotics**, *35h*, University of Alicante, *Spain*.

2004 **Java programming**, *45h*, University of Alicante, *Spain*.

2002 **Micro-Robotics**, *30h*, University of Alicante, *Spain*.

misc. **Various courses**, *150h*, University of Alicante, *Spain*.

Courses about teaching

2011 **Teaching networks**, *20h*, University of Alicante, *Spain*.

2009 **English for teaching**, *60h*, University of Alicante, *Spain*.

2007 **Certificate of Pedagogic Aptitude (CAP)**, *200h+100h*, University of Alicante and IES S.Vicente, *Spain*.

2004 **IT at the classroom**, *30h*, University of Alicante, *Spain*.

University Accreditations

2011 **Ayudante Doctor**, *AVAP*, Comunidad Valenciana, *Spain*.

Experience as Web Developer

2011 **Sistedes**, *Design and Development*, Drupal, CMS, PHP, *Alicante, Spain*.

2010 **GPLSI - UA**, *Design and Development*, Drupal, CMS, PHP, *Alicante, Spain*.

2009 **Centro Afán**, *Design and Development*, WordPress, CMS, PHP, *Alicante, Spain*.

2009 **Benidorm Marathon**, *Design and Development*, PHP, MySQL, HTML, CSS, Javascript, *Benidorm, Spain*.

2007 **Benidorm Marathon**, *Design and Development*, PHP, MySQL, HTML, CSS, Javascript, *Benidorm, Spain*.

2007 **Hotel Rosamar/Rosaire**, *Design and Development*, PHP, MySQL, HTML, CSS, Javascript, *Benidorm, Spain*.

2006 **Vigilant-Radiobit Sistemas**, *Design and Development*, PHP, MySQL, CSS, Javascript, *Benidorm, Spain*.

2006 **Benicolchon**, *Design and Development*, PHP, MySQL, HTML, CSS, Javascript, *Benidorm, Spain*.

2005 **Gandiclima**, *Design and Development*, HTML, CSS, Javascript, *Gandia, Spain*.