

Sergio JIMÉNEZ CELORRIO

PERSONAL DATA

PLACE AND DATE OF BIRTH: Burgos, Spain | 28 May 1980
ADDRESS: Department of Information and Communication Technologies,
Universitat Pompeu Fabra.
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Barcelona, Spain.
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AREAS OF SPECIALIZATION

Artificial Intelligence, Automated Planning, Machine Learning.

APPOINTMENTS HELD

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| 2013-
Current | 'Juan de la Cierva' post-doctoral research fellow
<i>Universitat Pompeu Fabra de Barcelona, Spain</i>
Post-doctoral research position at the Artificial Intelligence research group led by Prof. Hector Geffner. |
| 2011-2013 | Post-doctoral teaching assistant
<i>Universidad Carlos III de Madrid, Spain</i>
Post-doctoral teaching position at the Planning and Learning research group led by Prof. Daniel Borrajo. |
| 2004-2011 | Teaching assistant
<i>Universidad Carlos III de Madrid, Spain</i>
Pre-doctoral teaching position at the Planning and Learning research group led by Prof. Daniel Borrajo. |

EDUCATION

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| 2011 | PhD in Computer Science, Universidad Carlos III de Madrid, Spain
Thesis: "Planning and Learning under Uncertainty" Advisor: Prof. Daniel BORRAJO |
| 2004 | MSc in Computer Science, Universidad Autónoma de Madrid, Spain
Thesis: "Automatic song recognition" Advisor: Prof. José COLÁS |
| 2002 | BSc in Computer Science, Universidad Autónoma de Madrid, Spain |

LANGUAGE SKILLS

SPANISH: Mothertongue
ENGLISH: Fluent
FRENCH: Basic Knowledge
CATALAN: Basic Knowledge

RESEARCH GRANTS AND AWARDS

- 2016 Distinguished Paper Award, **International Joint Conference on Artificial Intelligence**, USA
- 2013 'Juan de la Cierva' post-doctoral research grant, **Spanish government**, Spain
- 2012 Distinguished Thesis Award, **Universidad Carlos III de Madrid**, Spain

RESEARCH STAYS

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|------------------------|---|
| Sep-Dec 2012 | Australia's Information and Communications Technology Research Centre of Excellence (NICTA). Canberra, Australia.
"Pruning bad quality causal links in sequential satisfying planning".
Sergio Jiménez, Patrik Haslum and Sylvie Thiebaux. ICAPS-13 Workshop on AI Planning and Learning. |
| Sep-Dec 2009 | MBARI Autonomy Research Group. Santa Cruz, USA.
"Optimizing Hidden Markov Models for Ocean Feature Detection".
Sandeep Kumar, Sergio Jiménez, Frederic Py, Deepak Khemani, Kanna Rajan. FLAIRS-2011. |
| June-Sep 2006 | Strathclyde Planning Group. Glasgow, UK.
"Planning in probabilistic domains using a deterministic numeric planner".
Sergio Jiménez, Andrew Coles and Amanda Smith. PLANSIG-06. |
| March-June 2006 | University of York, AI research group. York, UK.
"Combining ILP and Parameter Estimation to Plan Robustly in Probabilistic Domains".
Sergio Jimenez, James Cussens. ILP-2006. |

JOURNAL PAPERS

1. *Carlos Linares López, Sergio Jiménez, Angel García Olaya*. The deterministic part of the seventh International Planning Competition. **Artificial Intelligence Journal**. 2015.
2. *Carlos Linares López, Sergio Jiménez, Malte Helmert*. Automating the evaluation of planning systems. **AI Communications**. 2013.
3. *Sergio Jiménez, Fernando Fernández, Daniel Borrajo*. Integrating Planning, Execution, and Learning to Improve Plan Execution. **Computational Intelligence**. 2013.
4. *Amanda Jane Coles, Andrew Coles, Angel García Olaya, Sergio Jiménez, Carlos Linares López, Scott Sanner, Sungwook Yoon*. A Survey of the Seventh International Planning Competition. **AI Magazine**. 2012.
5. *Sergio Jiménez, Tomás de la Rosa, Susana Fernández, Fernando Fernández, Daniel Borrajo*. A review of machine learning for automated planning. **Knowledge Engineering Review**. 2012.
6. *Tomás de la Rosa, Sergio Jiménez, Raquel Fuentetaja, Daniel Borrajo*. Scaling up Heuristic Planning with Relational Decision Trees. **Journal of Artificial Intelligence Research**. 2011.

CONFERENCE PAPERS

1. *Javier Segovia-Aguas, Sergio Jiménez and Anders Jonsson*. Hierarchical Finite State Controllers for Generalized Planning. **IJCAI** 2016.

2. *Damir Lotinac, Javier Segovia-Aguas, Sergio Jiménez and Anders Jonsson*. Automatic Generation of High-Level State Features for Generalized Planning. **IJCAI** 2016.
3. *Javier Segovia-Aguas, Sergio Jiménez and Anders Jonsson*. Generalized Planning With Procedural Domain Control Knowledge. **ICAPS** 2016.
4. *Sergio Jiménez, Anders Jonsson, Héctor Palacios*. Temporal Planning With Required Concurrency Using Classical Planning. **ICAPS** 2015.
5. *Sergio Jiménez, Anders Jonsson*. Computing Plans with Control Flow and Procedures Using a Classical Planner. **SOCS** 2015.
6. *Sergio Jiménez, Fernando Fernández, Daniel Borrajo*. The PELA Architecture: Integrating Planning and Learning to Improve Execution. **AAAI** 2008.
7. *Tomás de la Rosa, Sergio Jiménez, Daniel Borrajo*. Learning Relational Decision Trees for Guiding Heuristic Planning. **ICAPS** 2008.
8. *Sergio Jiménez, Fernando Fernández, Daniel Borrajo*. Machine Learning of Plan Robustness Knowledge About Instances. **ECML** 2005.

TEACHING

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| 2013-2016 | Software engineering (Labs and seminars)
Course of the Computer Science BSc. Universitat Pompeu Fabra. Barcelona, Spain. |
| 2008-2012 | Artificial Intelligence (Labs and seminars)
Course of the Computer Science BSc. Universidad Carlos III de Madrid, Spain. |
| 2004-2008 | Programming (Labs and seminars)
Course of the Computer Science BSc. Universidad Carlos III de Madrid, Spain. |

OTHER ACADEMIC ACTIVITIES

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| 2017 | Program Committee at the Learning Track of the International Conference on Automated Planning and Scheduling (ICAPS). |
| 2016 | Program Committee at the International Symposium on Combinatorial Search. |
| 2015, 2016 | Program Committee at the International Joint Conference on Artificial Intelligence. |
| 2013 | Invited Speaker at the Summer School of ICAPS 2013. Perugia, Italy. Talk titled 'Hands-On Planning: Evaluating planners'. |
| 2011 | Co-organizer of the 7 th International Planning Competition at ICAPS |
| 2009-2011-2013 | Co-organizer of 3 editions of the International Workshop on Planning and Learning (ICAPS-2013, ICAPS-2011 and ICAPS-2009). <ul style="list-style-type: none"> - ANECA (Spanish agency for quality assessment) positive evaluation for "profesor contratado", "profesor ayudante doctor" and "profesor de universidad privada". AQU (Catalan agency for quality assessment) certification for "profesor lector". - Regularly reviewer for major AI conferences like IJCAI, AAAI and ICAPS. - General quality indicators of scientific research: 267 citations (236 since 2011) and h-index 10. Source <i>google scholar</i>. |