

Sergio JIMÉNEZ CELORRIO

PERSONAL DATA

PLACE AND DATE OF BIRTH: Burgos, Spain. 28 May 1980.
ADDRESS: Department of Computing and Information Systems,
University of Melbourne,
Parkville, Victoria 3010.
Australia.
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AREAS OF SPECIALIZATION

Artificial Intelligence, Automated Planning, Machine Learning.

APPOINTMENTS HELD

2016- Current	Post-doctoral research fellow <i>University of Melbourne, Australia</i> Department of Computing and Information Systems.
2013-2016	'Juan de la Cierva' post-doctoral research fellow <i>Universitat Pompeu Fabra de Barcelona, Spain</i> Artificial Intelligence research group led by Prof. Hector Geffner.
2004-2013	Teaching assistant <i>Universidad Carlos III de Madrid, Spain</i> Planning and Learning research group led by Prof. Daniel Borrajo.

EDUCATION

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*. Generating Context-Free Grammars using Classical Planning. **IJCAI** 2017.

2. *Javier Segovia-Aguas, Sergio Jiménez and Anders Jonsson*. Unsupervised learning of planning tasks. **ICAPS** 2017.
3. *Javier Segovia-Aguas, Sergio Jiménez and Anders Jonsson*. Hierarchical Finite State Controllers for Generalized Planning. **IJCAI** 2016.
4. *Damir Lotinac, Javier Segovia-Aguas, Sergio Jiménez and Anders Jonsson*. Automatic Generation of High-Level State Features for Generalized Planning. **IJCAI** 2016.
5. *Javier Segovia-Aguas, Sergio Jiménez and Anders Jonsson*. Generalized Planning With Procedural Domain Control Knowledge. **ICAPS** 2016.
6. *Sergio Jiménez, Anders Jonsson, Héctor Palacios*. Temporal Planning With Required Concurrency Using Classical Planning. **ICAPS** 2015.
7. *Sergio Jiménez, Anders Jonsson*. Computing Plans with Control Flow and Procedures Using a Classical Planner. **SOCS** 2015.
8. *Sergio Jiménez, Fernando Fernández, Daniel Borrajo*. The PELA Architecture: Integrating Planning and Learning to Improve Execution. **AAAI** 2008.
9. *Tomás de la Rosa, Sergio Jiménez, Daniel Borrajo*. Learning Relational Decision Trees for Guiding Heuristic Planning. **ICAPS** 2008.
10. *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

- 2017, 2016, 2015 Program Committee at the International Joint Conference on Artificial Intelligence.
- 2017, 2016 Program Committee at the International Symposium on Combinatorial Search.
- 2017 Program Committee at the Learning Track of the International Conference on Automated Planning and Scheduling (ICAPS).
- 2013 Invited Speaker at the Summer School of ICAPS 2013. Perugia, Italy. Talk titled 'Hands-On Planning: Evaluating planners'.
- 2013, 2011, 2009 Co-organizer of 3 editions of the International Workshop on Planning and Learning (ICAPS-2013, ICAPS-2011 and ICAPS-2009).
- 2011 Co-organizer of the 7th International Planning Competition at ICAPS
- Regularly reviewer for major AI conferences like IJCAI, AAAI and ICAPS.
 - 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".
 - General quality indicators of scientific research: 299 citations (232 since 2012) and h-index 10. Source *google scholar*.