

Séverin Lemaignan

*Post-doctoral Fellow,
Cognition for Human-Robot Interaction*

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30 years old



Scientific Interests

Scientific Focus Knowledge representation systems and their importance for robots' cognition ; human-robot multi-modal interaction ; robot cognition and decision making.

PhD Title *Grounding the Interaction: Knowledge Representation for Interactive Robots*

Keywords **Robotic Cognition, Human-Robot Interaction, Grounding, Ontologies**

Education and Research Activities

- 2013– **Post-doctoral fellow**, *CHILI, EPFL, Lausanne, Switzerland*.
Interaction with Robots in Educational Environments
- 2012–2013 **Post-doctoral fellow**, *LAAS-CNRS, Toulouse, France*.
Spatial and Temporal Reasoning for Cognitive Robotic Architectures.
- 2008–2012 **German-French PhD in Cognitive Robotics**, *LAAS-CNRS, Toulouse, France / IAS-TUM, Munich, Germany*, with High Distinction (*Cum Suma Laude*).
Supervisors: Pr. Rachid Alami, CNRS Senior Researcher, Pr. Michael Beetz, TUM Senior Researcher.
- 2006–2007 **Research Engineer**, *INRIA, Paris, France*.
Development of semantic-aware control architectures for autonomous vehicles.
- 2002–2006 **German-French Engineering degree**, *Karlsruhe TH, Fakultät für Maschinenbau / École Nationale Supérieure des Arts et Métiers*, Gold Medal (top ten students).
Final project: Ontologies and distributed systems for industrial processes.
- 2004–2005 **M.S. degree IT Environments for Education ("Environnements Informatiques pour l'Apprentissage Humain")**, *University Paris V, College of Mathematics and Computer Sciences*, With Honours.

Selected Publications

See my website for the complete list of publications, workshops and seminars.

International peer-reviewed journals

- Lemaignan, S. and Ros, R. and Sisbot, E. A. Alami, R. and Beetz M., **Grounding the Interaction: Anchoring Situated Discourse in Everyday Human-Robot Interaction**, *International Journal of Social Robotics*, 2011.

Book chapters

- Lemaignan, S. and Alami, R. and Pandey, A. K. and Warnier, M. and Guitton, J. , **Towards Grounding Human-Robot Interaction** in *Bridges between the Methodological and Practical Work of the Robotics and Cognitive Systems Communities - From Sensors to Concepts* Editors: Amirat, T. and Chibani, A. and Zarri, G. P.. Springer Publishing. 2012.

International peer-reviewed conference articles (6-8 pages)

- Lemaignan, S. and Ros, R. and Alami, R. and Beetz, M., **What are you talking about? Grounding dialogue in a perspective-aware robotic architecture**, *ROMAN*, 2011.
- Lemaignan, S. and Ros, R. and Mösenlechner, L. and Alami, R. and Beetz, M., **ORO, a knowledge management module for cognitive architectures in robotics**, *IROS* 2010.
- Ros, R. and Lemaignan, S. and Sisbot, E. A. and Alami, R. and Steinwender, J. and Hamann, K. and Warneken, F., **Which One? Grounding the Referent Based on Efficient Human-Robot Interaction**, *ROMAN*. 2010. **Best paper award**.

Teaching Experience

- 2008–2013 **Support lectures in robotics**, *EPFL, LAAS-CNRS, Université de Toulouse*.
Tutorials on ROS, robotic simulation, ontologies, Python, software development...
- 2008–2011 **Teaching assistant**, *INSA Toulouse*.
Tutorials in Prolog, Ontology Modeling, Java, ADA, SQL.
- 2006–2007 **Teaching assistant**, *École des Mines de Paris*.
Tutorials in mechatronics.
- 2006– **Educative Robotics Trainings**.
As head of the Educational Robotics department at the non-for-profit Planète Sciences organization, I've tutored numerous classes on Educational Robotics with teachers and science communicators.

Technical Skills and Spoken Languages

Robotics	Experienced PR2, Nao dev. Contributor to ROS, OpenCV Lead dev. MORSE simulator	Programming Languages	Python, C++, Prolog, SmallTalk
GitHub	github.com/severin-lemaignan		
	Languages		
French	Native		
English	Expert	<i>TOEIC score 925/990</i>	
German	Advanced	<i>DSH</i>	

Dissemination Activities

Workshops

- 2013 **Program Committee, Workshop on Developmental Social Robotics**, *IROS 2013*, <http://devsor2013.sciencesconf.org>.
- 2012 **Steering Committee, Intl. Workshop on MORSE and its Applications**.
- 2008–2009 **Steering Committee, Cognitive Sciences' Young Researchers Conference 2009**, <http://fresco.risc.cnrs.fr/cjcsc2009/>.

Outreach

- 2008–2012 **Robotics Science Day Coordinator**, *LAAS-CNRS*.
- 2008–2011 **Vice President of Toulouse's Cognitive Science Student Association**.
www.incognu.fr
- 2008–2009 **Science Communicator at South African SciFest festival**.
- 1997– **Involvement at Planète Sciences**, *Head of the Robotics Department in 2006-2007 – Executive Committee member since 2008 – Science Camps leader (with BAFA certification) – Coordinator on the EUROBOT Robotic Competition*.
<http://www.planete-sciences.org/>