

# Séverin Lemaignan

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

☎ +41(0)21 69 32611  
✉ severin.lemaignan@epfl.ch  
<http://academia.skadge.org>  
30 years old



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## 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**

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## 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.**  
**Summa Cum Laude** – awarded CNRS' **Best PhD in Robotics 2012**  
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.**

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## 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**.

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## 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.

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## 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	<a href="https://github.com/severin-lemaignan">github.com/severin-lemaignan</a>		
	<b>Languages</b>		
French	<b>Native</b>		
English	<b>Expert</b>	<i>TOEIC score 925/990</i>	
German	<b>Advanced</b>	<i>DSH</i>	

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## 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](http://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/>