

# Guillaume de Chambrier

Avenue de la Gare 3 – 1020 Renens – Switzerland • Born 29.06.1987

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🌐 <http://lasa.epfl.ch/people/member.php?SCIPER=213946.com> • Swiss and British

## Profile

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With several independent projects, I am an expert in developing and applying machine learning techniques to robot systems and I possess meticulous strong analytical skills.

## Education

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**PhD in Manufacturing Systems & Robotics**      **École polytechnique fédérale de Lausanne, Switzerland**

- Thesis: Learning Search Strategies from Human Demonstrations 2012 - 31.08.2016  
supervisor: Prof. Aude Billard

**First class Master of Informatics with Honours Informatics**      **University of Edinburgh, UK**

- Thesis: Building and Controlling a Hexapod Robot 2006 - 2011  
supervisor: Dr. Michael Herrmann

**Erasmus Exchange, Bachelor**      **Universität des Saarlandes, Germany**  
2008 - 2009

## Experience

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**Teaching Assistant**      **École polytechnique fédérale de Lausanne**  
○ Course: Applied Machine Learning (MSc) 2013-2016  
○ Course: Advanced Machine Learning (MSc)

**European Project**      **École polytechnique fédérale de Lausanne**  
○ Flexible Skill and Intuitive Robot Tasking 2012-2013

**Supervision**      **École polytechnique fédérale de Lausanne**  
○ Akshara Rai (Msc student) 2013

## Technical Skills

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**Programming:** C/C++, Python, Java, MATLAB

**Expertise:** Robotics, Reinforcement Learning, Non-parametric Bayesian inference, Machine learning & Computer Vision

## Languages

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**French, English** (first language)

## Awards and Certification

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**2010:** Google Prize: Best Phase 1 Project in Master of Informatics Programme

## Publication

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### Oral Presentations

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**de Chambrier G, et al:** (Oct. 2013). Learning from Failed Demonstrations in Unreliable Systems. IEEE-RAS International Conference on Humanoid Robots, Atlanta, US.

**de Chambrier G, et al:** (Dec. 2013). Learning search behaviour from humans. IEEE-Robotics and Biomimetics (ROBIO), Shenzhen, CN.

**de Chambrier G, et al:** (Jun. 2014). Learning search policies from humans in a partially observable context. Journal of Robotics and Biomimetics. 1:8

**de Chambrier G,et al:** (2016). Learning Peg-in-Hole policies given no visual information. Journal of Robotics and Autonomous Systems (RAS) (*under review*)

**de Chambrier G,et al:** (2016). Measurement Likelihood Memory for Bayesian State Estimation for search scenarios. Journal: Frontiers in Artificial Intelligence(*under review*)