




# Xavier Alameda-Pineda, Eng, PhD

Research Scientist at the **Perception Team**  
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## ACADEMIC DIPLOMAS

- 2014 – **Qualification for *Maître de Conférences* Section CNU 61** (MENESR, Paris, France)
- 2013 – **PhD in Mathematics and Computer Science** (Perception Team, Inria, UJF, Grenoble, France)
- 2010 – **Masters in Computer Science (Graphics, Vision and Robotics)** (MoSIG, UFR IM2AG, UJF, Grenoble-INP, Grenoble, France)
- 2009 – **Masters (equivalent) in Telecommunications Engineering** (ETSETB, UPC, Barcelona, Spain)
- 2008 – **Masters (equivalent) in Mathematics** (FME, UPC, Barcelona, Spain)

## RESEARCH EXPERIENCE

- Research Scientist** [REF.: DR. RADU HORAUD] (Perception Team, Inria, 2016-Now, Grenoble, France)
- Postdoctoral Fellow** [REF.: PROF. NICU SEBE] (MHUG, DISI, University of Trento, 2014-2016, Trento, Italy)
- Postdoctoral Fellow** [REF.: PROFS. LAURENT GIRIN/RADU HORAUD] (Perception Teams, Inria, 2013-2014, Grenoble, France)
- PhD Thesis: Egocentric Audio-Visual Scene Analysis, A Machine Learning and Signal Processing Approach** [REF.: DR. RADU HORAUD] (Perception Team, Inria, UJF, 2010-2013, Grenoble, France)

## STUDENT SUPERVISION

- PhD:** Guillaume Delorme (2017-18), Stephane Lathuillere (2016-18), Yutong Ban (2016-18), Andrea Pilzer (2016-18), Dan Xu (2016-18), Sergey Tulyakov (2015-17), Dionyssos Kounades-Bastian (2014-17), Israel-Dejene Gebru (2014-17), Maxime Janvier (2013-14).
- Masters:** Alessio Xompero (2014), Israel-Dejene Gebru (2013), Maxime Janvier (2012).

## PAPER AWARDS

- Novel Technology Paper Award Finalist** for *Tracking a Varying Number of People with a Visually-Controlled Robotic Head* at **Intelligent Robots and Systems 2017**
- Best scientific paper award** for *Multi-Paced Dictionary Learning for Cross-Domain Retrieval and Recognition* at **IEEE International Conference on Pattern Recognition 2016**
- Best paper award** for *Analysing Free-standing Conversational Groups: A Multimodal Approach* at **ACM International Conference on Multimedia 2015**
- Best student paper award** for *A Variational EM Algorithm for the Separation of Moving Sound Sources* at **IEEE Workshop on Applications of Signal Processing to Audio and Acoustics 2015**
- Outstanding paper award** for *Finding Audio-visual Events in Informal Social Gatherings* at **IEEE/ACM International Conference on Multimodal Interaction 2011**

## SELECTED PUBLICATIONS

- [S1] Xavier Alameda-Pineda, Jacopo Staiano, Ramanathan Subramanian, Ligia Maria Batrinca, Elisa Ricci, Bruno Lepri, Oswald Lanz, and Nicu Sebe. “SALSA: A Novel Dataset for Multimodal Group Behavior Analysis”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence* 38.8 (2016), pp. 1707–1720
- [S2] Israel-Dejene Gebru, Xavier Alameda-Pineda, Florence Forbes, and Radu Horaud. “EM algorithms for weighted-data clustering with application to audio-visual scene analysis”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence* 38.12 (2016), pp. 2402–2415. DOI: [10.1109/TPAMI.2016.2522425](https://doi.org/10.1109/TPAMI.2016.2522425). URL: <http://arxiv.org/abs/1509.01509>
- [S3] Dionyssos Kounades-Bastian, Laurent Girin, Xavier Alameda-Pineda, Sharon Gannot, and Radu Horaud. “A Variational EM Algorithm for the Separation of Time-Varying Convolutional Audio Mixtures”. In: *IEEE/ACM Transactions on Audio, Speech and Language Processing* 24.8 (2016), pp. 1408–1423. URL: <http://arxiv.org/abs/1510.04595>
- [S4] Xavier Alameda-Pineda and Radu Horaud. “Vision-Guided Robot Hearing”. In: *International Journal of Robotics Research* 34.4-5 (2015), pp. 437–456

## NATURAL & PROGRAMMING LANGUAGES

**Catalan:** Mother tongue. **Spanish:** Expert. **English & French:** Professional/Teaching. **Italian:** Intermediate.  
**C:** Mother tongue. **Matlab & L<sup>A</sup>T<sub>E</sub>X:** Expert. **C++ & UNIX Shell:** Fluent. **Java & Python:** Beginner.