


Xavier Alameda-Pineda, Eng, PhD

Research Scientist at the Perception Team¹

INRIA Grenoble Rhône-Alpes², Université Grenoble Alpes³

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DIPLOMAS

2014 – **Qualification for *Maître de Conférences* Section CNU 61** (MENESR⁴, Paris, France)

2013 – **PhD in Mathematics and Computer Science** (Perception Team, INRIA, UJF⁵, Grenoble, France)

2010 – **Masters in Computer Science (Graphics, Vision and Robotics)** (MoSIG⁶, UFR IM2AG⁷, UJF, Grenoble-INP⁸, Grenoble, France)

2009 – **Masters (equivalent) in Telecommunications Engineering** (ETSETB⁹ - UPC¹⁰, Barcelona, Spain)

2008 – **Masters (equivalent) in Mathematics** (FME¹¹ - UPC, Barcelona, Spain)

RESEARCH EXPERIENCE

Research Scientist [REF.: DR. RADU HORAUD] (Perception Team, INRIA, 2016-Now, Grenoble, France)

Postdoctoral Fellow [REF.: PROF. NICU SEBE] (MHUG¹², DISI¹³, University of Trento, 2014-2016, Trento, Italy)

Postdoctoral Fellow [REF.: PROFS. LAURENT GIRIN/RADU HORAUD] (MAGIC/Perception Teams, GIPSA-LAB/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: Stephane Lathuillere (2017), Yutong Ban (2016-17), Andrea Pilzer (2016-17), Dan Xu (2016-17), Sergey Tulyakov (2015-17), Dionyssos Kounades-Bastian (2014-17), Israel-Dejene Gebru (2014-17), Maxime Janvier (2013-14).

Masters: Guillaume Delorme (2017), Aliaksandr Siarohin (2016), Alessio Xompero (2014), Israel-Dejene Gebru (2013), Maxime Janvier (2012).

PAPER AWARDS

Best scientific paper award for *Multi-Paced Dictionary Learning for Cross-Domain Retrieval and Recognition* [0]
at [IEEE International Conference on Pattern Recognition 2016](#)

Best paper award for *Analysing Free-standing Conversational Groups: A Multimodal Approach* [0]
at [ACM International Conference on Multimedia 2015](#)

Best student paper award for *A Variational EM Algorithm for the Separation of Moving Sound Sources* [0]
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* [0]
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^AT_EX:** Expert. **C++ & UNIX Shell:** Fluent. **Java & Python:** Beginner.

NOTES

- ¹Perception Team's web site
- ²Institut National de Recherche en Informatique et Automatique, Siège de Grenoble Rhône-Alpes
- ³Université Grenoble Alpes
- ⁴Ministère de l'Éducation National, l'Enseignement Supérieur et la Recherche
- ⁵Université Joseph Fourier, Grenoble 1
- ⁶Master of Science in Informatics at Grenoble
- ⁷Unité de Formation et Recherche en Informatique, Mathématiques et Mathématiques Appliquées de Grenoble
- ⁸Grenoble-INP
- ⁹Escola Tècnica Superior d'Enginyeria de Telecomunicacions de Barcelona
- ¹⁰Universitat Politècnica de Catalunya – BarcelonaTECH
- ¹¹Facultat de Matemàtiques i Estadística
- ¹²Multimodal Human Understanding Group
- ¹³Department of Information Engineering and Computer Science