

Anna Xambó

BA, MA, MSc, PhD

Center for Music Technology
School of Music
College of Design
Georgia Institute of Technology
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Current Position

Postdoctoral Fellow, Center for Music Technology | Digital Media Program, Georgia Institute of Technology (Georgia Tech)

Areas of Interest

Human-computer interaction • Design of digital musical instruments (DMIs) • Tangible, physical & social computing • Arts & social sciences research methods • STEAM education • Real-time interactive systems for music performance • Computer-supported collaborative, participatory & improvisation music • Live coding • Real-time music information retrieval • Algorithmic composition & randomized algorithms • Immersive sound experiences • Data visualization • Creative programming • Women in music tech

Education

- 2015 PhD, The Open University (OU), UK & DRA., Universitat Pompeu Fabra (UPF), Spain.
Major: Music computing.
Dissertation: *Tabletop Tangible Interfaces for Music Performance: Design and Evaluation*.
- 2008 MSc in Information, Communication and Audiovisual Media Technologies, UPF, Spain.
Major: HCI & Music computing.
Dissertation: *Interfaces for Sketching Musical Compositions*.
- 1999 MASTER in Video, Animation and Multimedia Design, Media Art Institute Fak d'Art, Spain.
- 1996 BA, MA in Social and Cultural Anthropology, Universitat de Barcelona (UB), Spain.

Dissertation

Title Xambó, A. (2015). *Tabletop Tangible Interfaces for Music Performance: Design and Evaluation*.
Advisors Dr Robin Laney, Mr Chris Dobbyn and Prof Sergi Jordà.
Examiners Prof Eduardo Reck Miranda and Dr Janet van der Linden.
Website <http://oro.open.ac.uk/42473/>

Music Education

CLASSICAL TRAINING

- 1983–1987 PIANO, Conservatori Superior de Música del Liceu, Barcelona.
1982–1988 MUSIC THEORY & SOLFEGE, Conservatori Superior de Música del Liceu, Barcelona.

WORKSHOPS

- 2014 TALLER COMPOSICIÓN ACUSMÁTICA (Acousmatic composition workshop). Beatriz Ferreyra.
2012 SÍNTESI NO ESTÀNDARD: TÈCNIQUES, ESTÈTIQUES, EXTENSIONS (Non-standard synthesis: techniques, aesthetics, extensions). Luc Döbereiner.
2009 TALLER CONSTRUEIX EL TEU PROPI SINTETITZADOR (Build your own synthesizer workshop). Tom Bugs.
2006 EL MÓN COM A INSTRUMENT (The world as an instrument). Francisco López.
1998 IMPROVITZACIÓ MÈTODE COBRA (Cobra improvisation method). Orquestra del Caos.

Employment

- 08/2013–09/2014 RESEARCH FELLOW. London Knowledge Lab, UCL Institute of Education. London.
02/2004–06/2010 CO-FOUNDER, PROJECT MANAGER, WEB DESIGNER & WEB DEVELOPER. Nodular Soft. Barcelona.
01/2008–07/2009 WEB DESIGNER & WEB DEVELOPER PROJECT OFFICER. Music Technology Group, UPF. Barcelona.
11/2007–06/2009 WEB DESIGNER & WEB DEVELOPER PROJECT OFFICER. Uaalah!!. Barcelona.
08/2005–09/2006 WEB DESIGNER & MOTION GRAPHIC DESIGNER. CCRTVi | TV3 Interactiva. Sant Just Desvern, Barcelona.
05/2001–08/2002 WEB DESIGNER & MOTION GRAPHIC DESIGNER. TerraNetworks | UranoFilms. Barcelona.
04/2000–05/2001 WEB DESIGNER & MOTION GRAPHIC DESIGNER. MediaPark | ParkNet, Barcelona.

Honors & Awards

RESEARCH HONORS & AWARDS

- 10/2010–07/2013 FULLY-FUNDED FULL-TIME OU PhD SCHOLARSHIP. The Open University, Milton Keynes, UK.
03/2010–06/2010 FULLY-FUNDED OU VISITING RESEARCH STUDENTSHIP. The Open University, Milton Keynes, UK.

ARTISTIC GRANTS, HONORS & AWARDS

- 05/2004 FIRST PRIZE AWARD MINIMA FESTIVAL. Gandía, Spain.
Category: Experimental Video.
Project: “Cosmogonias”.
Role: Creator & Director.

Grants & Funding

As PRINCIPAL INVESTIGATOR

- 11/2003-10/2004 **TEACHING INNOVATION PROJECT GRANT**
Funding body: Fundació Caixa de Sabadell.
Project: “Crossmedia infantil: Estudio sobre las nuevas tecnologías y la comunicación audiovisual en la escuela infantil y primaria (Crossmedia for Children: New Technologies and Audiovisual Communication in Primary Education)”.
Role: PI.
Collaborators: Eladi Martos (Co-PI), UB.
Total Dollar Amount: \$3,300
Candidate’s Share: 50% (\$1,650)
- 09/2001-08/2002 **AUDIOVISUAL PRODUCTION GRANT**
Funding body: Departament de Cultura de la Generalitat de Catalunya (Department of Culture of Catalan Government).
Project: “Transdata Pr.”.
Role: Creator, Video Editor & Director.
Collaborators: Gerard Roma (music), Oscar Abril Ascaso (essay).
Total Dollar Amount: \$3,300
Candidate’s Share: 50% (\$1,650)
- 09/1998-08/1999 **AUDIOVISUAL PRODUCTION GRANT**
Funding body: Departament de Cultura de la Generalitat de Catalunya (Department of Culture of Catalan Government).
Project: “Mitösömä”.
Role: Creator, Animation Editor & Director.
Collaborators: Gerard Roma (music).
Grant Amount: 3,000€ (\$3,335).
Candidate’s Share: 50% (\$1,650)

As COLLABORATOR

- 09/2016-08/2020 **ADVANCING INFORMAL STEM LEARNING GRANT**
Funding body: National Science Foundation (NSF).
Project: “Collaborative Research: Mixing Learning Experiences for Computer Programming Across Museums, Classrooms, and the Home Using Computational Music”. Award Number: 1612644.
Organization: Georgia Tech Research Corporation.
Role: Postdoctoral Fellow and Co-Writer of the grant proposal.
Collaborators: Brian Magerko (PI), Jason Freeman (Co-PI), Mike Horn (Co-PI).
Total Dollar Amount: \$2,517,690.00

Research Profiles

- [Scholar Google](#)
- [Open Research Online](#)
- [Academia.edu](#)
- [ResearchGate](#)

Publications

BOOKS

- 2004 Xambó, A. (2004). *Herramientas De Diseño Digital / Digital Design Tools*. Madrid: Anaya-Multimedia. ISBN 8441516979.

PEER-REVIEWED BOOK CHAPTERS

- 2016 Xambó, A. (forthcoming), “Embodied music interaction: creative design synergies between music performance and HCI”. In Price, S. and Broadhurst, S. eds. *Digital Bodies: Creativity and Technology in the Arts and Humanities*. Palgrave Macmillan, London.
- 2013 Xambó, A., Laney, R., Dobbyn, C. and Jordà, S. (2013). “Video analysis for evaluating music interaction: musical tabletops”. In Holland, S., Wilkie, K., Mulholland, P. and Seago, A. eds. *Music and Human-Computer Interaction*. Springer, London. pp. 241–258. ISBN 9781447129905.

JOURNAL ARTICLES

- 2016c Jewitt, C., Price, S., Xambó, A. (2016). “Conceptualising and researching the body in digital contexts: towards new methodological conversations across the arts and social sciences”. *Qualitative Research*.
- 2016b Xambó, A., Hornecker, E., Marshall, P., Jordà, S., Dobbyn, C. and Laney, R. (2016). “Exploring social interaction with a tangible music interface”. *Interacting with Computers*.
- 2016a Jewitt, C., Xambó, A. and Price, S. (2016). “Exploring methodological innovation in the social sciences: the body in digital environments and the arts”. *International Journal of Social Research Methodology*.
- 2013b Xambó, A., Hornecker, E., Marshall, P., Jordà, S., Dobbyn, C. and Laney, R. (2013). “Let’s jam the Reactable: peer learning during musical improvisation with a tabletop tangible interface”. *ACM Transactions on Computer-Human Interaction*, 20(6), pp. 36:1–36:34.
- 2013a Bogdanov, D., Haro, M., Fuhrmann, F., Xambó, A., Gómez, E. and Herrera, P. (2013). “Semantic audio content-based music recommendation and visualization based on user preference examples”. *Information Processing & Management*, 49(1), pp. 13–33.

PEER-REVIEWED CONFERENCE PAPERS

- 2016f Xambó, A., Shah, P., Freeman, J., Magerko, B., Michaud, C. (under review) The skill of debugging: informing the design of CS+Arts learning environments for novice programmers.
- 2016e Xambó, A., Drozda, B., Weisling, A., Magerko, B., Huet, M., Gasque, T., Freeman, J. (accepted) Experience and ownership with a tangible computational music installation for informal learning. In *Proceedings of the Tangible, Embedded, and Embodied Interaction Conference (TEI ’17)*.
- 2016d Tsuchiya, T., Xambó, A., Freeman, J. (2016). “Adapting DAW-driven musical language to live coding: a case study in EarSketch”. In *Late-Breaking Demo of the Second International Conference on Live Coding (ICLC ’16)*. Hamilton, Canada.
- 2016c Freeman, J., Magerko, B., Edwards, D., Miller, M., Moore, R., Xambó, A. (2016). “Using EarSketch to broaden participation in computing and music”. In *Proceedings of the 13th Sound and Music Computing Conference (SMC 2016)*. Hamburg, Germany. pp. 156–163.
- 2016b Xambó, A., Lerch, A., Freeman, J. (2016). “Learning to code through MIR”. In *Extended abstracts for the Late-Breaking Demo Session of the 17th International Society for Music Information Retrieval Conference (ISMIR 2016)*. New York.
- 2016a Xambó, A., Freeman, J., Magerko, B., Shah, P. (2016). “Challenges and new directions for collaborative live coding in the classroom”. In *International Conference of Live Interfaces (ICLI 2016)*.

Brighton, UK.

- 2015 Freeman, J., Magerko, B., Edwards, D., Moore, R., McKlin, T., Xambó, A. (2015). "EarSketch: a STEAM approach to broadening participation in computer science principles". In *Proceedings of the IEEE Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT '15)*. Charlotte, NC. pp. 109–110.
- 2014b Xambó, A., Roma, G., Laney, R., Dobbyn, C. and Jordà, S. (2014). "SoundXY4: supporting tabletop collaboration and awareness with ambisonics spatialisation". In *Proceedings of the International Conference on New Interfaces for Musical Expression 2014 (NIME '14)*. London. pp. 249–252.
- 2014a Xambó, A., Jewitt, C., and Price, S. (2014). "Towards an integrated methodological framework for understanding embodiment in HCI". In *Proceedings of the Extended Abstracts on Human Factors in Computing Systems (CHI '14)*. Toronto. pp. 1411–1416.
- 2013 Bogdanov, D., Haro, M., Fuhrmann, F., Xambó, A., Gómez, E. and Herrera, P. (2013). "A content-based system for music recommendation and visualization of user preferences working on semantic notions". In *IEEE 9th International Workshop on Content-Based Multimedia Indexing (CBMI '13)*. Madrid. pp. 249–252.
- 2012 Roma, G.; Xambó, A.; Herrera, P. and Laney, R. (2012). "Factors in human recognition of timbre lexicons generated by data clustering". In *Proceedings of the 9th Sound and Music Computing Conference (SMC 2012)*. Copenhagen, Denmark. pp. 23–30.
- 2011c Xambó, A., Laney, R., Dobbyn, C. and Jordà, S. (2011). "Multi-touch interaction principles for collaborative real-time music activities: towards a pattern language". In *Proceedings of the International Computer Music Conference (ICMC '11)*. Huddersfield, UK. pp. 403–406.
- 2011b Xambó, A., Laney, R. and Dobbyn, C. (2011). "TOUCHtr4ck: democratic collaborative music". In *Proceedings of the Tangible, Embedded, and Embodied Interaction Conference (TEI '11)*. Funchal, Madeira. pp. 309–312.
- 2011a Milne, A. J.; Xambó, A.; Laney, R.; Sharp, D. B.; Precht, A. and Holland, S. (2011). "Hex Player — a virtual musical controller". In *Proceedings of the International Conference on New Interfaces for Musical Expression (NIME '11)*. Oslo, Norway. pp. 244–247.
- 2010b Laney, R., Dobbyn, C., Xambó, A., Schirosa, M., Miell, D., Littleton, K. and Dalton, N. (2010). "Issues and techniques for collaborative music making on multi-touch surfaces". In *7th Sound and Music Computing Conference (SMC 2010)*. Barcelona. pp. 146–153.
- 2010a Haro, M.; Xambó, A.; Fuhrmann, F.; Bogdanov, D.; Gómez, E. and Herrera, P. (2010). "The Musical Avatar: a visualization of musical preferences by means of audio content description". In *Proceedings of the 5th Audio Mostly Conference (AM '10)*. Piteå, Sweden.
- 2008 Roma, G. and Xambó, A. (2008). "A tabletop waveform editor for live performance". In *Proceedings of the International Conference on New Interfaces for Musical Expression (NIME '08)*. Genoa, Italy.

POSITION & WORKSHOP PAPERS

- 2012 Xambó, A.; Laney, R.; Dobbyn, C. and Jordà, S. (September 11, 2012). "Towards a taxonomy for video analysis on collaborative musical tabletops". In *BCS HCI 2012 Workshop on video analysis techniques for HCI*. Birmingham, UK.
- 2011 Xambó, A.; Laney, R.; Dobbyn, C. and Jordà, S. (July 4, 2011). "Collaborative music interaction on tabletops: an HCI approach". In *BCS HCI 2011 Workshop on When Words Fail: What can Music Interaction tell us about HCI?*. Newcastle Upon Tyne.

REPORTS & WORKING PAPERS

- 2008 Xambó, A. (2008). Interfaces for Sketching Musical Compositions. Unpublished master's thesis. UPF.
- 2004 Xambó, A. and Martos, E. (2004). Crossmedia Infantil: Estudi sobre les noves tecnologies i la comunicació audiovisual a l'escola infantil i primària (Report of new technologies and audiovisual

communication in the primary education). Unpublished report. Fundació Caixa de Sabadell with the support of UB.

Talks & Oral Presentations

EXTERNAL

- 2016e Xambó, A. (July 2, 2016). Challenges and new directions for collaborative live coding in the classroom. *ICLI 2016*. Brighton, UK.
- 2016c Dobson, L. and Xambó, A. (April 22, 2016). Anna Xambó and Liz Dobson in conversation. Keynote session. *Women in Sound Women on Sound 2016: Educating girls in sound* at University of Lancaster. Lancaster, UK.
- 2015a Xambó, A. (August 14, 2015). EarSketch: a STEAM approach to broadening participation in computer science principles. Lightning talk. *RESPECT 2015*. Charlotte, NC. US.
- 2014c Xambó, A. (July 1, 2014). SoundXY4: Supporting tabletop collaboration and awareness with ambisonics spatialisation. *NIME 2014*. London.
- 2014b Xambó, A. (April 30, 2014). Let's jam the Reactable: Peer learning during musical improvisation with a tabletop tangible interface. *CHI 2014*. Toronto, ON.
- 2013b Xambó, A. (November 11, 2013). Tabletop tangible interfaces for music performance and implications for tabletop research. *School of Computing*, University of Kent. Kent, UK.
- 2011d Xambó, A. (August 2, 2011). Multi-touch interaction principles for collaborative real-time music activities: towards a pattern language. *ICMC '11*. Huddersfield, UK.
- 2011c Xambó, A. (July 4, 2011). Collaborative music interaction on tabletops: An HCI approach?. *BCS HCI 2011 Workshop on When Words Fail: What can Music Interaction tell us about HCI?*. Newcastle Upon Tyne, UK.
- 2010c Xambó, A. (July 23, 2010). Issues and techniques for collaborative music making on multi-touch surfaces. *SMC '10*. Barcelona.
- 2008c Alsina, A., Ferrete, J., Roma, G. and Xambó, A. (October 31, 2008). Freesound, Sons de Barcelona y Freesound Radio: Proyectos colaborativos alrededor del sonido. *IV Cicle de Converses d'Antropologia Sonora*, Institució Milà i Fontanals (CSIC). Barcelona.
- 2008b Alsina, A., Ferrete, J., Roma, G. and Xambó, A. (2008). Freesound.org, Freesound Radio i Sons de Barcelona. *Facultat de Belles Arts (Faculty of Fine Arts)*, Universitat de Barcelona. Barcelona.
- 2008a Alsina, A., de Jong, B., Loscos, A., Roma, G. and Xambó, A. (September 27, 2008). Influencia de la tecnología en la evolución de la música y la industria. *NetAudio*, CCCB. Barcelona.
- 2007 Roma, G. and Xambó, A. (September 20, 2007). A sound editor with a tangible interface. *SCSymposium(2007)*, DCM. The Hague, Netherlands.

OWN INSTITUTION

- 2016c Xambó, A.; Ikkache, L. and Jackson, D. (May 5, 2016). Women in Sound. Oral presentation and discussion. *Georgia Tech Center for Music Technology (GTCMT)*, Georgia Tech. Atlanta, GA, USA.
- 2016b Xambó, A. (February 25, 2016). Algorithmic composition: my personal journey. Oral presentation as a guest speaker in Jason Freeman's *Computer Music Composition* class. GTCMT. Atlanta, GA, USA.
- 2016a Xambó, A. (January 26, 2016). EarSketch: computational music remixing for all. Oral presentation as a guest speaker in Barbara Ericson's *Educational Technology* class. College of Computing, Georgia Tech. Atlanta, GA, USA.
- 2015c Xambó, A. (September 3, 2015). Musical tabletops: challenges and opportunities for computer-supported collaborative music and HCI. *College of Architecture Research Forum*, Georgia Tech. Atlanta, GA, USA.
- 2015b Xambó, A. (August 27, 2015). Musical tabletops: challenges and opportunities for computer-

- supported collaborative music and HCI. *GVU Center Brown Bag Seminar Series*, Georgia Tech. Atlanta, GA, USA.
- 2015a Xambó, A. (August 24, 2015). Musical tabletops: challenges and opportunities for computer-supported collaborative music and HCI. *GTCMT Seminar Series*, Georgia Tech. Atlanta, GA, USA.
- 2014 Xambó, A. (April 9, 2014). Let's jam the Reactable: Peer learning during musical improvisation with a tabletop tangible interface. *London Knowledge Lab*. London.
- 2013 Xambó, A. (June 2, 2013). Tabletop groupware for music performance: Design and evaluation. *CRC PhD Student Conference 2013*, OU. Milton Keynes, UK.
- 2012 Xambó, A. (June 12, 2012). Collaboration on interactive tabletops for music performance: An exploratory study. *CRC PhD Student Conference 2012*, OU. Milton Keynes, UK.
- 2011b Xambó, A. (June 16, 2011). Tabletop groupware for music performance: Design and evaluation. *CRC PhD Student Conference 2011*, OU. Milton Keynes, UK.
- 2011a Xambó, A. (May 17, 2011). Tabletop groupware for music performance: Design and evaluation. *2011 Doctoral Workshops Conference*, OU. Milton Keynes, UK.
- 2010b Xambó, A. (June 8, 2010). Issues and techniques for collaborative music making on multi-touch surfaces. *CRC PhD Student Conference 2010*, OU. Milton Keynes, UK.
- 2010a Xambó, A. (May, 2010). Issues and techniques for collaborative music making on multi-touch surfaces. *Music Research Day*, Music Research Studio, OU. Milton Keynes, UK.

Poster Presentations, Demos & Workshops

POSTER PRESENTATIONS & DEMOS

- 2016c Xambó, A. (August 11, 2016). Learning to code through MIR. *Late-Breaking Demo Session of ISMIR 2016*. New York.
- 2016b Roma, G.; Xambó, A. and Freeman, J. (July 2, 2016). Do the Buzzer Shake. *ICLI 2016 Conference*. Brighton, UK.
- 2016a Xambó, A. (April 29, 2014). Towards an integrated methodological framework for understanding embodiment in HCI. *CHI 2014 Conference*. Toronto, ON.
- 2012b Xambó, A. (January 10, 2012). Tangible Additive Sound Synthesis (TASS) Demo. *Welcome to the French Embassy*, OU. Milton Keynes, UK.
- 2012a Xambó, A. (June 17, 2011). Designing and evaluating interactive systems: Musical tabletops for collective music performance. *CRC PhD Student Conference 2011*, OU. Milton Keynes, UK.
- 2011 Xambó, A. (March 8, 2011). Designing and evaluating interactive systems: Musical tabletops for collective music performance. *The Open University Poster Competition 2011*. Milton Keynes, UK.

WORKSHOPS

- 2013 Xambó, A. (May 2, 2013). Introduction to SuperCollider. *Music Computing Meeting*, OU. Milton Keynes, UK.
- 2012 Xambó, A.; Roma, G. and Bovermann, T. (April 15, 2012). Tangible musical interfaces with SuperCollider. *SuperCollider Symposium 2012*, Goldsmiths, University of London. London.

Discography

SOLO ALBUMS

- 2013 peterMann. (2013). *On the Go* [promo CD & FLAC/MP3 files]. Barcelona: Carpal Tunnel.
2011 peterMann. (2011). *init* [promo CD & FLAC/MP3 files]. Barcelona: Carpal Tunnel.

BAND ALBUMS

- 1996 La Más Fina. (1996). *Zande Phondex* [CD]. Barcelona: Apache Productions.
1994 La Más Fina. (1994). *Como quien dice la hoja iberia extrafina* [Cassette]. Barcelona: Self-released.
1992 Sosa's Càustica. (1992). *Paraponera Clavata* [Cassette]. Barcelona: Murmur Town.

PARTICIPATION IN COMPILATIONS

- 2016 peterMann. (2016). Go wild y'all. On *Microtopies 2016* [MP3 files]. Barcelona: Gracia Territori Sonor.
2015 peterMann. (2015). Idnsktcho1. On *Microtopies 2015* [MP3 files]. Barcelona: Gracia Territori Sonor.
2010 peterMann. (2010). init11. On *Electronic music from Catalonia 2010* [CD]. Barcelona: Catalan! Arts / Sonar, Barcelona.

BROADCASTING

- 2013 peterMann's ogo2. (July 28, 2013). BiP_HOp Generation on Radio Grenouille.
2013 peterMann's ogo1, ogo5, ogo7 & ogo9. (June 23, 2013). Framework radio #426.
2013 peterMann's ogo1. (March 28, 2013). Rare Frequency on WZBC 90.3 FM Newton Boston College Radio.
2013 peterMann's ogo1 & og10. (March 2, 2013). Onda Sonora.
2013 peterMann's selection of *On The Go's* tracks. (February 3, 2013). RNE Atmósfera.
2013 peterMann's ogo2. (February 2, 2013). Störung Radio 127 on ScannerFM.
2010 peterMann's init 10, init 11 & init 12. (December 18, 2010). Onda Sonora.
2010 peterMann's init 2. (April 12, 2010). Sismógrafo.

Performances

SOLO PERFORMANCES

- 2016 Xambó, A. (April 22, 2016). Live coding with EarSketch. *Women in Sound Women on Sound 2016: Educating girls in sound*. Lancaster, UK.
2016 peterMann. (April 22, 2016). Live. *Women in Sound Women on Sound 2016: Educating girls in sound*. Lancaster, UK.
2013 Xambó, A. (October 4, 2013). Live. *Perspectives on multichannel live coding*. PHONOS. Barcelona.
2012 peterMann. (September 20, 2012). Live. *Crispy Crunchy Creaky*. Niu. Barcelona.
2006 peterMann. (June 10, 2006). Live. *5a Mostra Sonora i Visual | Convent Sant Agustí*. Barcelona.

SELECTED GROUP PERFORMANCES

- 2012 pulso. (March 15, 2012). Live. *Live Coding Sessions*. Niu. Barcelona.
2004 pulso. (May 29, 2004). Live. *Minima Festival*. Gandía, Spain.

2002 b4ng. (June 13, 2002). Live. *Sonar Festival*. Barcelona.

Other Creative Products

AWARDED MUSIC HACKS

- 2014 Roma, G. and Xambó, A. (2014). crowdj. *Music Hack Day*. Barcelona. Rdio prize.
Role: Concept, part of the implementation and user interface.
- 2012b Xambó, A. and Roma, G. (2012). Soundscape Turntablism. *Music Hack Day*. Barcelona. Reactable and Zvoq prizes.
Role: Concept, part of the implementation and tangible user interface.
- 2012a Roma, G. and Xambó, A. (2012). Soundscape DJ. *Music Tech Fest*. London. Warp Records prize.
Role: Concept, part of the implementation and tangible user interface.

CODE

- 2016 Algo noise. (2016). Retrieved October 18 2016, from <https://github.com/axambo/algo noise>
Role: Concept and implementation.
- 2014 SoundXY4: The Art of Noise. (2014). Retrieved October 18 2016, from <https://github.com/axambo/soundxy4>
Role: Concept and implementation.
- 2012 SoundXY. (2012). Retrieved October 18 2016, from <https://github.com/axambo/soundxyz>
Role: Concept and implementation.

VIDEO CREATIONS & ANIMATION FILMS

- 2003a Xambó, A. (2003). *Cosmogonias* (3 min). Spain. Video creation | Animation film.
- 2002b Xambó, A. (2002). *b.scope* (3 min). Spain. Video creation.
- 2002a Xambó, A. (2002). *Transdata Pr.* (5 min). Spain. Video creation.
- 2000 Xambó, A. (2000). *clubsfera* (3 min). Spain. Video creation | Animation film.
- 1999 Xambó, A. (1999). *Mitösöma* (10 min). Spain. Video creation | Animation film.
- 1998c Xambó, A. (1998). *Lufthansa* (3 min). Spain. Videoclip for La Más Fina.
- 1998b Xambó, A. (1998). *Neila* (2 min). Spain. Video creation.
- 1998a Xambó, A. (1998). *Sueños* (1 min). Spain. Video creation | Animation film.

INSTALLATIONS & VISUALS

- 09/2002 *I love Japan*, Circuit Festival, Barcelona.
Role: Visuals.
Collaborators: Urtzi Grau (director), Emma Dünner, Jorge Meneses, Ana Otero.
- 03/2002–08/2002 *Astoria (cinema & restaurant)*, Barcelona.
Role: Co-filming and visuals.
Collaborators: Babylon Cannes (concept).
- 09/2001 *Emezdensity, Second Architectural Market*, Centre de Cultura Contemporània de Barcelona (CCCB), Barcelona.
Role: Visuals.
Collaborators: Urtzi Grau (curator), Ana Otero (artistic director).

Teaching

UNDERGRADUATE COURSES

- 02/2004–06/2004 Centre de la Imatge i la Tecnologia Multimèdia, Universitat Politècnica de Catalunya, Terrassa, Barcelona.
Course: *Experimental Motion Graphics* (45 h). # Students: ~15.
- 10/2003–02/2004 BAU Escola de Disseny, Universitat de Vic, Barcelona.
Course: *Crossmedia* (45 h). # Students: ~15.
- 11/1999–06/2004 Media Art Institute Fak d'Art, Barcelona.
Course: *Computer Animation* (90 h). # Students: ~15.
- 11/2003–06/2004 Media Art Institute Fak d'Art, Barcelona.
Course: *Digital Compositing with Adobe AfterEffects* (45 h). # Students: ~10.
Course: *Photography in Motion* (45 h). # Students: ~10.
Course: *Type in Motion* (45 h). # Students: ~10.

PROFESSIONAL COURSES

- 04/2004–05/2005 Crea Formació, Barcelona.
Course: *Usability* (12 h). # Students: ~5.
Course: *Internet Design Techniques* (12 h). # Students: ~5.
Course: *Web Design with DreamWeaver* (24 h). # Students: ~5.
Course: *Multimedia Content with Adobe Flash* (16 h). # Students: ~5.
Course: *Flash Programming* (20 h) # Students: ~5.
Course: *Theoretical Aspects in Graphic Design* (12 h). # Students: ~5.
Course: *Video Edition with Adobe Premiere* (60 h) # Students: ~1.

PRESCHOOL & PRIMARY SCHOOL COURSES

- 03/2004–06/2004 Escola Magòria, Barcelona.
Course: *Crossmedia infantil* (8 h). # Students (6–7 years old): XX
- 03/2004–05/2004 Escola Costa i Llobera, Barcelona.
Course: *Crossmedia infantil* (8 h). # Students (9–10 years old): XX
- 03/2004–05/2004 Escola Glòries, Barcelona.
Course: *Crossmedia infantil* (8 h). # Students (3–4 years old): XX

Additional Experience

CONCERTS CO-ORGANIZATION

- 2016 Women in Music Tech. (November 2, 2016). The Garage. Atlanta, GA, USA.
- 2016 Audience device participation. (April 5, 2016). *Web Audio Conference 2016*, Georgia Tech. Atlanta, GA, USA.
- 2016 Live coding and the audiovisual web. (April 4, 2016). *Web Audio Conference 2016*, Georgia Tech. Atlanta, GA, USA.
- 2013 Perspectives on multichannel live coding. (October 4, 2013). Sala Polivalent UPF, PHONOS. Barcelona.
- 2013 Live Coding Sessions II. (March 22, 2013). Niu. Barcelona.
- 2012 Live Coding Sessions. (March 15, 2012). Niu. Barcelona.

BLOGGING

- 2016– [Women in Music Tech](#), the newsletter of the Women in Music Tech organization. Co-creator and co-author.
- 09/2013–08/2014 [MIDAS's Blog](#), the research blog of the MIDAS project. Co-creator and co-author.
- 01/2010–12/2011 [postWIMP](#), a blog on HCI and interaction design. Co-creator and author.
- 03/2006–03/2009 [streeTypes](#), a blog on typography in public spaces. Creator and author.

ARTISTIC COLLECTIVE PROJECTS

- 2008–present Co-Founder of the experimental electronic music label Carpal Tunnel, Barcelona.
- 2002 Co-Founder and Member of the audiovisual electronic music band b4ng, Barcelona.
- 1998–2000 Co-Founder and Member of the experimental video collective *jesus13*, Barcelona.

Professional Activities

COMMITTEE MEMBER / CONFERENCE CHAIR

- 2016 Co-Founder & Co-Chair. *Women in Music Tech*, GTCMT, Georgia Tech. Atlanta, GA, USA.
- 2016 Music/Artworks Chair. *Web Audio Conference 2016*, Georgia Tech. Atlanta, GA, USA.
- 2011 Session Chair (“Laptop/Coding/NI”). *ICMC '11*. Huddersfield, UK.
- 2011 Committee Member. *CRC PhD Student Conference 2011*, OU. Milton Keynes, UK.

CONFERENCE REVIEWER

- 2012–2016 *ACM Designing Interactive Systems* (2012, 2016).
- 2011–2016 *ACM New Interfaces for Musical Expression* (2011–2016).
- 2015–2017 *ACM Special Interest Group on Computer-Human Interaction* (2015–2017).
- 2012–2017 *ACM Tangible, Embedded and Embodied Interaction* (2012–2017).
- 2013 *IEEE Interactive Tabletops and Surfaces* (2013).
- 2016 *International Conference on Live Interfaces* (2016).
- 2016 *ISSTA International Festival and Conference on Sound in the Arts, Science and Technology* (2016).
- 2016 *Web Audio Conference* (2016).

JOURNAL REVIEWER

- 2016– *Interacting with Computers*. Oxford Journals.
- 2015– *International Journal of Human-Computer Studies*. Elsevier.
- 2016– *Qualitative Research*. Sage Publications.

JURY MEMBER

- 2016 Jury Member. *MOOG Hackathon 2016*, GTCMT, Georgia Tech. Atlanta, GA, USA.

CONSULTANCIES

- 08/2015–10/2015 *Flux Project*, Atlanta, GA, USA.
Consulting on development of interactive audio components of an art project for Flux Night 2015.
Collaborators: Jason Freeman (coordinator), Gerard Roma.

ENTREPRENEURSHIP

02/2004–06/2010 *Nodular Soft*, Barcelona.

Co-Founder of a freelance studio focused on user-centric software and AV communication, development of community websites using several CMS, development of AV programs under specific needs, and usability consultancy.

RESEARCH VISITS

05/2012 University of Strathclyde, Glasgow, Scotland, UK.

06/2011 University of Strathclyde, Glasgow, Scotland, UK.

04/2011–05/2011 Universitat Pompeu Fabra, Barcelona.

Skills

LANGUAGES

Catalan (native or bilingual proficiency), Spanish (native or bilingual proficiency), English (full professional proficiency), German (basic level), Italian (basic level), French (basic level).

COMPUTER SKILLS

Operating Systems: OS X, Windows and Linux desktop (Ubuntu).

Programming: Actionscript, Assembly (basic level), C, CSS, Java, JavaScript, jQuery, MySQL, PHP, Python, XHTML, XML.

Scientific Apps: MATLAB, Octave, R, SPSS.

Version control systems: CVS, Git, Subversion.

Music Apps: Cubase, Live, Max/MSP, PureData, SuperCollider, wave editors (Audacity, SoundForge, WaveEditor).

Video analysis Apps: ELAN, VCode.

Other Apps: Graphics and multimedia authoring apps (AfterEffects, Blender, Dreamweaver, Final Cut Pro, Flash, Freehand, Illustrator, InDesign, Photoshop, Premiere, Processing, Combustion, 3DMax), LaTeX, MS Office suite. CMS (Drupal, WordPress).