

# Anna Xambó

BA, MA, MSc, PhD

*Associate Professor in Music Technology*

Department of Music

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## Current Academic Roles

- *Associate Professor in Music Technology*, Department of Music, NTNU, Trondheim, Norway.
- *Master of Music, Communication and Technology (MCT) Programme Study Leader*, Department of Music, NTNU.
- *MCT Programme Council Leader*, Department of Music, NTNU.
- *Chair of the Women Nordic Music Technology (WoNoMute) organization*, Department of Music, NTNU.
- *General Co-Chair of the Web Audio Conference 2019*, Department of Music, NTNU.
- *Paper Co-Chair of the New Interfaces for Musical Expression Conference 2019*, Institute of Informatics and the Institute of Arts at Federal University of Rio Grande do Sul, Porto Alegre, Brazil.
- *Local Committee Member of the International Conference of Live Interfaces 2020*, Department of Music, NTNU.
- *Visiting Lecturer*, Centre for Digital Music (C4DM), School of Electronic Engineering and Computer Science (EECS), Queen Mary University of London (QMUL).

## Areas of Interest

Design of Digital Musical Instruments (DMIs) • Real-time Interactive Systems for Music Performance • Human-Computer Interaction • Interaction Design • Tangible, Physical & Social Computing • Computer-Supported Collaborative, Participatory & Improvisation Music • Live Coding • Real-time Music Information Retrieval and Machine Learning • Multichannel Spatialization • Generative & Algorithmic Music • Immersive Sound Experiences • Women in Music Tech • Arts & Social Sciences Research Methods • STEAM Education • Data Visualization • Creative Programming

## Education

- 2015 PhD, The Open University (OU), UK & DRA., Universitat Pompeu Fabra (UPF), Spain.  
Major: Music computing & HCI.  
Dissertation: *Tabletop Tangible Interfaces for Music Performance: Design and Evaluation*.
- 2008 MSc in Information, Communication and Audiovisual Media Technologies, UPF, Spain.  
Major: Music computing & HCI.  
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

2018 SPATIAL AUDIO WORKSHOP by Eric Lyon. Virginia Tech, Blacksburg, Virginia, USA.  
2014 TALLER COMPOSICIÓN ACUSMÁTICA (Acousmatic Composition Workshop) by Beatriz Ferreyra. Barcelona.  
2012 SÍNTESI NO ESTÀNDARD: TÈCNIQUES, ESTÈTIQUES, EXTENSIONS (Non-Standard Synthesis: Techniques, Aesthetics, Extensions) by Luc Döbereiner. Barcelona.  
2009 TALLER CONSTRUEIX EL TEU PROPÍ SINTETITZADOR (Build Your Own Synthesizer Workshop) by Tom Bugs. Barcelona.  
2008 SMC SUMMER SCHOOL by Xavier Serra, Marc Leman, Benjamin Knapp, and the Casa Paganini - InfoMus Lab. Genoa, Italy.  
2006 EL MÓN COM A INSTRUMENT (The world as an instrument) by Francisco López. Barcelona.  
1998 IMPROVITZACIÓ MÈTODE COBRA (Cobra Improvisation Method) by Orquestra del Caos. Barcelona.

## Teaching Education

2018–present LEARNING AND TEACHING IN HIGHER EDUCATION (MODULE II). Instructors: Alison Gilmour, Maren Thom. QMUL. London.  
2018–present LEARNING AND TEACHING IN HIGHER EDUCATION (MODULE I). Instructor: Emma Kennedy. QMUL. London.  
2018 WOMEN INTO LEADERSHIP. Instructor: Lorraine Smith. QMUL. London.  
2017 COMMUNICATION SKILLS FOR TEACHING FOR INTERNATIONAL FACULTY, POSTDOCS, AND VISITING SCHOLARS. Instructor: Katherine Samford. Georgia Institute of Technology (Georgia Tech). Atlanta, GA, USA.

## Employment

08/2018–present ASSOCIATE PROFESSOR IN MUSIC TECHNOLOGY. Department of Music, NTNU.  
08/2018–present VISITING LECTURER. C4DM, School of EECS, QMUL.  
10/2017–07/2018 POSTDOCTORAL RESEARCH ASSISTANT. C4DM, School of EECS, QMUL.  
07/2015–09/2017 POSTDOCTORAL FELLOW. Center for Music Technology (GTCMT) | Digital Media Program, Georgia Tech.  
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 GRANTS, HONORS & AWARDS

2018–2021 3-YEAR STARTUP GRANT (STARTPAKKE) (250,000 NOK), awarded to women in permanent academic positions in a scientific field with underrepresentation of women. NTNU, Trondheim, Norway.

2017 NCWIT Engagement Excellence Award (\$5,000 cash award) to Greg Hendler, Léa Ikkache, Brandon Westergaard, Anna Xambó, Doug Edwards, Brian Magerko, and Jason Freeman (Earsketch), Georgia Tech.

2016 WOMEN IN MUSIC INFORMATION RETRIEVAL (WiMIR) GRANT, awarded conference fee waiver to attend the ISMIR 2016 conference. New York University (NYU), New York.

10/2010–07/2013 3-YEAR FULLY-FUNDED FULL-TIME OU PhD SCHOLARSHIP. The Open University, Milton Keynes, UK.

03/2010–06/2010 4-MONTH 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

### 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)

### 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

#### FUNDRAISER

- 2017–2018 FEMALE LAPTOP ORCHESTRA + WoNoMUTE + YSWN + SONORA: SEMINAR AND CONCERT AT SARC  
Role: Co-organizer and participant of the event.  
Total Fundraised British Pound Amount: £2,000
- 05/2016–05/2017 WOMEN IN MUSIC TECH  
Role: Co-Founder & Co-Chair of the organization.  
Total Fundraised Dollar Amount: \$11,450

#### CREATOR | DIRECTOR

- 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)

## 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

- 2019 **Xambó, A.**, Font, F., Fazekas, G., Barthet, M. (in press). “Leveraging Online Audio Commons Content For Media Production”. In Michael Filimowicz ed. *Foundations in Sound Design for Linear Media: an interdisciplinary approach*. Routledge.
- 2016 **Xambó, A.** (2017), “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. pp. 207–220. ISBN 9781349952410.
- 2013 **Xambó, A.**, Laney, R., Dobbyn, C., 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

- 2018c **Xambó, A.**, Lerch, A., Freeman, J. (in press). “Music Information Retrieval in Live Coding: A Theoretical Framework”. *Computer Music Journal*, 42(4), Winter 2018.
- 2018b Roma, G. and **Xambó, A.**, Freeman, J. (2018). “User-independent Accelerometer Gesture Recognition for Participatory Mobile Music”. *Journal of Audio Engineering Society*, 66(6), pp. 430–438.
- 2018a **Xambó, A.**, Roma, G., Shah, P., Tsuchiya, T., Freeman, J., Magerko, B. (2018). “Turn-taking and Online Chatting in Co-located and Remote Collaborative Music Live Coding”. *Journal of Audio Engineering Society*, 66(4), pp. 253–256.
- 2017c **Xambó, A.**, Hornecker, E., Marshall, P., Jordà, S., Dobbyn, C., Laney, R. (2017). “Exploring Social Interaction with a Tangible Music Interface”. *Interacting with Computers*, 29(2), pp. 248–270.
- 2017b Jewitt, C., Price, S., **Xambó, A.** (2017). “Conceptualising and Researching the Body in Digital Contexts: Towards New Methodological Conversations Across the Arts and Social Sciences”. *Qualitative Research*, 17(1), pp. 37–53.
- 2017a Jewitt, C., **Xambó, A.**, Price, S. (2017). “Exploring Methodological Innovation in the Social Sciences: The Body in Digital Environments and the Arts”. *International Journal of Social Research Methodology*, 20(1), pp. 105–120.
- 2013b **Xambó, A.**, Hornecker, E., Marshall, P., Jordà, S., Dobbyn, C., 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., 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

- 2019 **Xambó, A.**, Saue, S., Jensenius, A.R., Stöckert, R., Brandtsegg, Ø. (in press). “NIME Prototyping in Teams: A Participatory Approach to Teaching Physical Computing”. In *Proceedings of the New Interfaces for Musical Expression (NIME ’19)*. Porto Alegre, Brazil.
- 2018f Roma, G., **Xambó, A.**, Green, O., Tremblay, P.A. (2018) “A Javascript Library for Flexible Visualization of Audio Descriptors”. In *Proceedings of the Web Audio Conference (WAC ’18)*. Berlin, Germany.
- 2018e Pauwels, J., **Xambó, A.**, Roma, G., Barthet, M. Fazekas, G. (2018) “Exploring Real-time Visualisations to Support Chord Learning with a Large Music Collection”. In *Proceedings of the Web Audio Conference (WAC ’18)*. Berlin, Germany.
- 2018d **Xambó, A.**, Pauwels, J., Roma, G., Barthet, M. Fazekas, G. (2018) “Jam with Jamendo: Querying a Large Music Collection by Chords from a Learner’s Perspective”. In *Proceedings of Audio Mostly 2018: Sound in Immersion and Emotion (AM ’18)*. Wrexham, United Kingdom.
- 2018c **Xambó, A.** (2018) “Who Are the Women Authors in NIME?—Improving Gender Balance in NIME

- Research". In *Proceedings of the New Interfaces for Musical Expression (NIME '18)*. Blacksburg, Virginia, USA, pp. 174–177.
- 2018b **Xambó, A.**, Roma, G., Lerch, A., Barthet, M., Fakekas, G. (2018) "Live Repurposing of Sounds: MIR Explorations with Personal and Crowdsourced Databases". In *Proceedings of the New Interfaces for Musical Expression (NIME '18)*. Blacksburg, Virginia, USA, pp. 364–369.
- 2018a Weisling, A., **Xambó, A.**, Olowe, I., Barthet, M. (2018) "Surveying the Compositional and Performance Practices of Audiovisual Practitioners". In *Proceedings of the New Interfaces for Musical Expression (NIME '18)*. Blacksburg, Virginia, USA, pp. 344–345.
- 2017d **Xambó, A.**, Shah, P., Roma, G., Freeman, J., Magerko, B. (2017) "Turn-taking and Chatting in Collaborative Music Live Coding". In *Proceedings of the Audio Mostly Conference (AM '17)*. London.
- 2017c Roma, G., **Xambó, A.**, Freeman, J. (2017) "Handwaving: Gesture Recognition for Participatory Mobile Music". In *Proceedings of the Audio Mostly Conference (AM '17)*. London.
- 2017b Roma, G., **Xambó, A.**, Freeman, J. (2017) "Loop-aware Audio Recording for the Web". In *Proceedings of the Web Audio Conference 2017 (WAC '17)*. London
- 2017a **Xambó, A.**, Drozda, B., Weisling, A., Magerko, B., Huet, M., Gasque, T., Freeman, J. (2017) Experience and Ownership with a Tangible Computational Music Installation for Informal Learning. In *Proceedings of the Tangible, Embedded, and Embodied Interaction Conference (TEI '17)*. Yokohama, Japan. pp. 351–360.
- 2016b 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.
- 2016a **Xambó, A.**, Freeman, J., Magerko, B., Shah, P. (2016). "Challenges and New Directions for Collaborative Live Coding in the Classroom". In *Proceedings of the International Conference of Live Interfaces (ICLI 2016)*. Brighton, UK. pp. 65–73.
- 2014 **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.
- 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., Prectl, 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 *Proceedings of the 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 *Pro-*



ceedings of the International Conference on New Interfaces for Musical Expression (NIME '08). Genoa, Italy.

#### PEER-REVIEWED ABSTRACTS WITH PROCEEDINGS

- 2018b Skach, S., **Xambó, A.**, Turchet, L., Stolfi, A., Stewart, B., Barthet, M. (2018). "Embodied Interactions with E-Textiles and the Internet of Sounds for Performing Arts". In *Proceedings of the Twelfth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '18)*. Stockholm, Sweden. pp. 80–87.
- 2018a Weisling, A., **Xambó, A.** (2018). "Beacon: Exploring Physicality in Digital Performance". In *Proceedings of the Twelfth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '18)*. Stockholm, Sweden. pp. 586–591.
- 2017a **Xambó, A.**, Roma, G. (2017). "Hyperconnected Action Painting". In *Proceedings of the Web Audio Conference 2017 (WAC '17)*. London.
- 2016c 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.
- 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 Roma, G., **Xambó, A.**, Freeman, J. (2016). "Do the Buzzer Shake". In *International Conference of Live Interfaces (ICLI 2016)*. Brighton, UK. pp. 315–316.
- 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.
- 2014 **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.

#### POSITION & WORKSHOP PAPERS

- 2017 **Xambó, A.**, Roma, G., Shah, P., Freeman, J., Magerko, B. (2017) "Computational Challenges of Co-creation in Collaborative Music Live Coding: An Outline". 2017 Co-Creation Workshop at the International Conference on Computational Creativity. Atlanta, GA, USA.
- 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.**, 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. Supported by Fundació Caixa de Sabadell. In collaboration with UB.

## Talks, Panels & Oral Presentations

### EXTERNAL

- 2018e ORAL PRESENTER together with Pauwels, J. (September 19, 2018). "Exploring Real-time Visualisations to Support Chord Learning with a Large Music Collection". *WAC '18. Technische Universität Berlin*, Berlin, Germany.
- 2018d ORAL PRESENTER together with Pauwels, J. (September 14, 2018). "Jam with Jamendo: Querying a Large Music Collection by Chords from a Learner's Perspective". *AM '18. University of Wrexham*, Wrexham, UK.
- 2018c ORAL PRESENTER. (July 12, 2018). "Audio Commons: Challenges and Opportunities of Using Online Repositories in Music Production and Performance". *Filmuniversität Babelsberg Konrad Wolf*, Potsdam, Germany.
- 2018b ORAL PRESENTER. (June 6, 2018). "Who Are the Women Authors in NIME?—Improving Gender Balance in NIME Research". *NIME '18*. Virginia Tech, Blacksburg, Virginia, USA.
- 2018a ORAL PRESENTER. (April 21, 2018). "Live Repurposing of Crowdsourced Sounds: Challenges and Opportunities of Using Online Repositories in Music Performance". *Sonorities Symposium, Sonorities Festival*. Queen's University Belfast, Belfast, Northern Ireland.
- 2017 ORAL PRESENTER. (August 24, 2017). "Turn-taking and Chatting in Collaborative Music Live Coding". *AM '17*. London.
- 2016b ORAL PRESENTER. (July 2, 2016). "Challenges and New Directions for Collaborative Live Coding in the Classroom". *ICLI 2016*. University of Sussex, Brighton, UK.
- 2016a KEYNOTE SPEAKER. (April 22, 2016). "Anna Xambó and Liz Dobson in Conversation". *Women in Sound Women on Sound 2016: Educating girls in sound* at University of Lancaster. Lancaster, UK.
- 2015 LIGHTNING TALK SPEAKER. (August 14, 2015). "EarSketch: A STEAM Approach to Broadening Participation in Computer Science Principles". *RESPECT 2015*. Charlotte, NC. USA.
- 2014b ORAL PRESENTER. (July 1, 2014). "SoundXY4: Supporting Tabletop Collaboration and Awareness with Ambisonics Spatialisation". *NIME '14*. Goldsmiths University, London.
- 2014a ORAL PRESENTER. (April 30, 2014). "Let's Jam the Reactable: Peer Learning during Musical Improvisation with a Tabletop Tangible Interface". *CHI '14*. Toronto, ON, Canada.
- 2013 ORAL PRESENTER. (November 11, 2013). "Tabletop Tangible Interfaces for Music Performance and Implications for Tabletop Research". *School of Computing*, University of Kent. Kent, UK.
- 2011b ORAL PRESENTER. (August 2, 2011). "Multi-touch Interaction Principles for Collaborative Real-time Music Activities: Towards a Pattern Language". *ICMC '11*. University of Huddersfield. Huddersfield, UK.
- 2011a ORAL PRESENTER. (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.
- 2010 ORAL PRESENTER. (July 23, 2010). "Issues and Techniques for Collaborative Music Making on Multi-touch Surfaces". *SMC '10*. Universitat Pompeu Fabra, Barcelona.
- 2008c PANEL MEMBER together with Alsina, A., Ferrete, J. and Roma, G. (October 31, 2008). "Freesound, Sons de Barcelona y Freesound Radio: Proyectos colaborativos alrededor del sonido" (Freesound, Sons de Barcelona & Freesound Radio: Collaborative Projects around sound). *IV Cicle de Converses d'Antropologia Sonora*, Institució Milà i Fontanals (CSIC). Barcelona.
- 2008b PANEL MEMBER together with Alsina, A., Ferrete, J. and Roma, G. (2008). "Freesound.org, Freesound Radio i Sons de Barcelona" (Freesound.org, Freesound Radio & Sons de Barcelona). *Facultat de Belles Arts (Faculty of Fine Arts)*, Universitat de Barcelona. Barcelona.
- 2008a PANEL MEMBER together with Alsina, A., de Jong, B., Loscos, A. and Roma, G. (September 27, 2008). "Influencia de la tecnología en la evolución de la música y la industria" (Influence of the technology in the evolution of music and industry). *NetAudio*, CCCB. Barcelona. [\[video\]](#)



- 2007 ORAL PRESENTER together with Roma, G. (September 20, 2007). "A Sound Editor with a Tangible Interface". *SCSymposium(2007)*, DCM, The Hague, The Netherlands.

#### OWN INSTITUTION

- 2019b ORAL PRESENTER. (March 25, 2019). "Summary of my research and teaching 2018-2019". *Faglig Forum*. Music Technology, NTNU, Trondheim, Norway.
- 2019a ORAL PRESENTER together with Jawad, K. and Lesteberg, M. (January 31, 2019). "Women Nordic Music Technology". *Girls Geek Dinner Trondheim*. Music Technology, NTNU, Trondheim, Norway.
- 2018c LIGHTNING TALK SPEAKER. (September 28, 2018). "Challenges and Opportunities of Collaborative Music Live Coding: A Practitioner's Approach". *The Raw and The Cooked, Inter/sections 2018*. Café 1001, London, UK.
- 2018b ORAL PRESENTER. (August 13, 2018). "Women in Music Tech: A Case Study". *Oppstartseminar (Institutt for musikk)*. Dokkhuset, Trondheim, Norway.
- 2018a ORAL PRESENTER. (August 13, 2018). "A Journey Through My Research and Creative Practice". *Oppstartseminar (Institutt for musikk)*. Dokkhuset, Trondheim, Norway.
- 2017b ORAL PRESENTER. (June 19, 2017). "Computational Challenges of Co-creation in Collaborative Music Live Coding: An Outline". *CCW2017: Co-Creation Workshop, ICC 2017*. Atlanta, GA, USA.
- 2017a PANEL MEMBER together with Ikkache, L. (May 4, 2017). "Women in Music Tech 2016-2017". Oral presentation and discussion. *GTCMT*, Georgia Tech, Atlanta, GA, USA.
- 2016d LIGHTNING TALK SPEAKER. (November 2, 2016). "Tangible User Interfaces and Tabletops". *First Annual Women and Music Tech Concert and Reception*, The Garage, Atlanta, GA, USA.
- 2016c PANEL MEMBER together with Ikkache, L. and Jackson, D. (May 5, 2016). "Women in Sound." Oral presentation and discussion. *GTCMT*, Georgia Tech, Atlanta, GA, USA.
- 2016b ORAL PRESENTER. (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 ORAL PRESENTER. (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 ORAL PRESENTER. (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 ORAL PRESENTER. (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. [\[video\]](#)
- 2015a ORAL PRESENTER. (August 24, 2015). "Musical Tabletops: Challenges and Opportunities for Computer-Supported Collaborative Music and HCI". *GTCMT Seminar Series*, Georgia Tech, Atlanta, GA, USA.
- 2014 ORAL PRESENTER. (April 9, 2014). "Let's Jam the Reactable: Peer Learning During Musical Improvisation with a Tabletop Tangible Interface". *London Knowledge Lab*, London.
- 2013 ORAL PRESENTER. (June 2, 2013). "Tabletop Groupware for Music Performance: Design and Evaluation". *CRC PhD Student Conference 2013*, OU, Milton Keynes, UK.
- 2012 ORAL PRESENTER. (June 12, 2012). "Collaboration on Interactive Tabletops for Music Performance: An Exploratory Study". *CRC PhD Student Conference 2012*, OU, Milton Keynes, UK.
- 2011b ORAL PRESENTER. (June 16, 2011). "Tabletop Groupware for Music Performance: Design and Evaluation". *CRC PhD Student Conference 2011*, OU, Milton Keynes, UK.
- 2011a ORAL PRESENTER. (May 17, 2011). "Tabletop Groupware for Music Performance: Design and Evaluation". *2011 Doctoral Workshops Conference*, OU, Milton Keynes, UK.
- 2010b ORAL PRESENTER. (June 8, 2010). "Issues and Techniques for Collaborative Music Making on Multi-touch Surfaces". *CRC PhD Student Conference 2010*, OU, Milton Keynes, UK.

- 2010a ORAL PRESENTER. (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

- 2018b POSTER PRESENTER together with Roma, G. (June 7, 2018). “Live Repurposing of Sounds: MIR Explorations with Personal and Crowdsourced Databases”. *NIME '18*. Blacksburg, Virginia, USA.
- 2018a DEMO PRESENTER together with Skach, S. (March 19, 2018). “Embodied Interactions with E-Textiles and the Internet of Sounds for Performing Arts”. *TEI '18*. Stockholm, Sweden.
- 2017c POSTER PRESENTER. (June 22, 2017). Authors: Weisling, A. and Xambó, A. “Constructing a Conceptual Framework for Collaborative Audiovisual Performance”. *ICCC '17*. Atlanta, GA, USA.
- 2017b POSTER PRESENTER. (June 22, 2017). Authors: Weisling, A., Xambó, A., Magerko, B., Roma, G., Jacob, M., Bhanu, N., and Freeman, J. “TuneTable: A Tangible Computational Music Installation for Informal Learning”. *ICCC '17*. Atlanta, GA, USA.
- 2017a POSTER & DEMO PRESENTER. (March 21, 2017). “Experience and Ownership with a Tangible Computational Music Installation for Informal Learning”. *TEI '17*. Yokohama, Japan.
- 2016b POSTER & DEMO PRESENTER. (August 11, 2016). “Learning to Code Through MIR”. *Late-Breaking Demo Session of ISMIR 2016*. New York.
- 2016a POSTER & DEMO PRESENTER together with Roma, G. (July 2, 2016). “Do the Buzzer Shake”. *ICLI 2016*. Brighton, UK.
- 2015 POSTER & DEMO PRESENTER together with McKlin, T. (August 14, 2015). “EarSketch: A STEAM Approach to Broadening Participation in Computer Science Principles”. *RESPECT 2015*. Charlotte, NC. USA.
- 2014 POSTER PRESENTER together with Price, S. (April 29, 2014). “Towards an Integrated Methodological Framework for Understanding Embodiment in HCI”. *CHI '14*. Toronto, ON. [\[video\]](#)
- 2012 DEMO PRESENTER. (January 10, 2012). “Tangible Additive Sound Synthesis (TASS)”. *Welcome to the French Embassy*, OU. Milton Keynes, UK.
- 2011d POSTER PRESENTER. (June 17, 2011). “Designing and Evaluating Interactive Systems: Musical Tabletops for Collective Music Performance”. *CRC PhD Student Conference 2011*, OU. Milton Keynes, UK.
- 2011c POSTER & DEMO PRESENTER together with Milne, A. J. (May 30, 2011). “Hex Player — A Virtual Musical Controller”. *NIME '11*. Oslo, Norway.
- 2011b POSTER PRESENTER. (March 8, 2011). “Designing and Evaluating Interactive Systems: Musical Tabletops for Collective Music Performance”. *The Open University Poster Competition 2011*. Milton Keynes, UK.
- 2011a POSTER PRESENTER. (January 25, 2011) “TOUCHtr4ck: Democratic Collaborative Music”. *TEI '11*. Funchal, Madeira.
- 2010 POSTER PRESENTER. (June 8, 2010). “Issues and Techniques for Collaborative Music Making on Multi-touch Surfaces”. *CRC PhD Student Conference 2010*, OU. Milton Keynes, UK.
- 2008b POSTER PRESENTER. (June 9–11, 2010). “Interfaces for Sketching Musical Compositions”. *SMC Summer School 2008*. Genoa, Italy.
- 2008a POSTER PRESENTER together with Roma, G. (June 6, 2008). “A Tabletop Waveform Editor for Live Performance”. *NIME '08*. Genoa, Italy.

### WORKSHOPS

- 2019 Allik, A., **Xambó, A.** (January 16, 2019). “Musical Networks of Live Coders”. *International Conference on Live Coding 2019*, Medialab Prado, Madrid, Spain.
- 2018b **Xambó, A.** (July 12–13, 2018). “Creative Audio Programming”. *Filmuniversität Babelsberg Konrad*

- Wolf, Potsdam, Germany. Organized by MA Creative Technologies.
- 2018a Allik, A., **Xambó, A.** (April 7–8, 2018). “Collaborative Network Music”. *Rewire 2018*, The Hague, The Netherlands. Organized by Music Hackspace. Funded by Rewire.
- 2017 **Xambó, A.** (October 14, 2017). “Huddersfield Girl Geeks: Audiovisual Creative Coding with P5.js”. *Kirklees Libraries*, Huddersfield, UK. Funded by Google.
- 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.

#### WEBINARS

- 2016 **Xambó, A.** (October 28, 2016). “Debugging with EarSketch”. GTCMT, Georgia Tech, Atlanta, GA, USA.

## Discography

#### SOLO ALBUMS

- 2018 Anna Xambó. *H2RI* [FLAC/MP3 files]. Chicago (IL, USA): pan y rosas.
- 2013 peterMann. *On the Go* [promo CD & FLAC/MP3 files]. Barcelona: Carpal Tunnel.
- 2011 peterMann. *init* [promo CD & FLAC/MP3 files]. Barcelona: Carpal Tunnel.

#### GROUP ALBUMS

- 2019 Anna Weisling and Anna Xambó. *Beacon* [EP]. Barcelona: Carpal Tunnel.
- 1996 La Más Fina. *Zande Phondex* [CD]. Barcelona: Apache Productions.
- 1994 La Más Fina. *Como quien dice la hoja iberia extrafina* [Cassette]. Barcelona: Self-released.
- 1992 Sosa’s Cáustica. *Paraponera Clavata* [Cassette]. Barcelona: Murmur Town.

#### PARTICIPATION IN COMPILATIONS

- 2018 peterMann. “noz-petermann” (11 min 10 sec). in *Noiselets* [FLAC/MP3 files]. Barcelona: Carpal Tunnel.
- 2016 peterMann. “Go wild y’all” (1 min). in *Microtopies 2016* [MP3 files]. Barcelona: Gracia Territori Sonor.
- 2015 peterMann. “ldnsktho1” (1 min). In *Microtopies 2015* [MP3 files]. Barcelona: Gracia Territori Sonor.
- 2010 peterMann. “init11” (3 min 29 sec). In *Electronic music from Catalonia 2010* [CD]. Barcelona: Catalan! Arts / Sonar, Barcelona.

#### BROADCASTING

- 2018b Anna Xambó’s “H2RI.01-04”. (June 21, 2018). Rare Frequency on WZBC 90.3 FM Newton Boston College Radio.
- 2018a Anna Xambó’s “H2RI.07”. (May 17, 2018). No Pigeonholes EXP on KOWS-FM.
- 2013f peterMann’s “ogo2”. (July 28, 2013). BiP\_HOp Generation on Radio Grenouille.
- 2013e peterMann’s “ogo1”, ogo5, ogo7 & ogo9. (June 23, 2013). Framework radio #426.
- 2013d peterMann’s “ogo1”. (March 28, 2013). Rare Frequency on WZBC 90.3 FM Newton Boston College

- Radio.
- 2013c peterMann's "og01" & "og10". (March 2, 2013). Onda Sonora.
  - 2013b peterMann's selection of *On The Go*'s tracks. (February 3, 2013). RNE Atmósfera.
  - 2013a peterMann's "og02". (February 2, 2013). Störung Radio 127 on ScannerFM.
  - 2010b peterMann's "init 10–12". (December 18, 2010). Onda Sonora.
  - 2010a peterMann's "init 2". (April 12, 2010). Sismógrafo.

## Selected Performances

### SOLO PERFORMANCES

- 2019 **Xambó, A.** (January 18, 2019). *Live coding with crowdsourced sounds & a drum machine*. International Conference on Live Coding, Medialab Prado, Madrid, Spain.
- 2018d **Xambó, A.** (November 24, 2018). *A session on participatory mobile music and live coding using crowdsourced sounds*. NTNU Research Concert. Dokkhuset. Trondheim, Norway.
- 2018c **peterMann.** (September 28, 2018). Live coding session. *The Raw, Inter/sections 2018. Café 1001*. London, UK.
- 2018b **Xambó, A.** (September 19, 2018). Audience device participation piece. IMAGINARY BERLIN. WAC '18. Factory Berlin. Berlin, Germany.
- 2018a **Xambó, A.** (August 9, 2018). Live. MARENOSTRUM. Cube Fest. Moss Arts Center. Blacksburg, VA, USA.
- 2017 **peterMann.** (January 8, 2017). Live coding session. *Noiselets: A Noise Music Microfestival*. Freedonia, Barcelona, Spain.
- 2016b **Xambó, A.** (April 22, 2016). Live coding with EarSketch. *Women in Sound Women on Sound 2016: Educating girls in sound*. Jack Hylton Music Room, University of Lancaster. Lancaster, UK.
- 2016a **peterMann.** (April 22, 2016). Live. *Women in Sound Women on Sound 2016: Educating girls in sound*. Jack Hylton Music Room, University of Lancaster. Lancaster, UK.
- 2013 **Xambó, A.** (October 4, 2013). Live coding session. *Perspectives on Multichannel Live Coding*. PHONOS. Sala Polivalent, UPF. Barcelona, Spain.
- 2012 **peterMann.** (September 20, 2012). Live. *Crispy Crunchy Creaky*. Niu. Barcelona, Spain.
- 2006 **peterMann.** (June 10, 2006). Live. *5a Mostra Sonora i Visual | Convent Sant Agustí*. Barcelona, Spain.

### COLLABORATIVE PERFORMANCES

- 2018c Brown, N., Chudy, M., Dobson, L., Hoel, A.M., Ikkache, L., Pase, T., Schroeder, F., Stolfi, A., Wilkie, S., **Xambó, A.** (November 22, 2018). "Transmusicking II". Sonic Arts Research Center, Queen's University Belfast. Belfast, Northern Ireland.
- 2018b Weisling, A., **Xambó, A.** (June 5, 2018). "Beckon". *NIME '18*. Moss Arts Center: Anne and Ellen Fife Theatre. Blacksburg, VA, USA.
- 2018a Weisling, A., **Xambó, A.** (March 20, 2018). "Beacon". *TEI '18*. Kulturhuset. Stockholm, Sweden.
- 2017d Brown, N., Chudy, M., Papadomanolaki, M., Wilkie, S., Pase, T., Stolfi, A., Schroeder, F., **Xambó, A.**, Ikkache, L., Freeman, J., Ganesh, S., Kerure, A., Narang, J., Tsuchiya, T. (August 25, 2017). "Transmusicking I". *AM '17*. Oxford House Theatre. London, UK.
- 2017c **Xambó, A.**, Roma, G. (August 21, 2017). "Hyperconnected Action Painting". *WAC 2017*. Oxford House Theatre. London, UK.
- 2017b Weisling, A., **Xambó, A.** (May 16, 2017). "Beacon". *NIME 2017*. Stengade. Copenhagen, Denmark.
- 2017a Weisling, A., **Xambó, A.** (February 11, 2017). "Beacon". *Root Signals Festival 2017*. Georgia Southern University. Statesboro, Georgia, United States.

- 2012 pulso (Roma, G., **Xambó, A.**). (March 15, 2012). Live coding session. *Live Coding Sessions*. Niu. Barcelona, Spain.
- 2004 pulso (Roma, G., **Xambó, A.**). (May 29, 2004). Live. *Minima Festival*. Gandia, Spain.
- 2002 b4ng (Roma, G., **Xambó, A.**, Brugos, C., Clarens). (June 13, 2002). Live. *Sonar Festival*. Barcelona, Spain.

## Mastering (other's work)

- 2018 *Noiselets* [FLAC/MP3 files]. Barcelona: Carpal Tunnel.

## Other Creative Products

### AWARDED MUSIC HACKS

- 2014 “crowdj”. *Music Hack Day*. Barcelona, Spain.  
Prize: Rdio prize.  
Role: Concept, part of the implementation and user interface design.  
Collaborator: Gerard Roma.
- 2012b “Soundscape Turntablism”. *Music Hack Day*. Barcelona, Spain.  
Prize: Reactable prize, Zvooq prize.  
Role: Concept, part of the implementation and tangible user interface design.  
Collaborator: Gerard Roma.
- 2012a “Soundscape DJ”. *Music Tech Fest*. London, UK.  
Prize: Warp Records prize.  
Role: Concept, part of the implementation and tangible user interface design.  
Collaborator: Gerard Roma.

### CODE

- 2018b Embedded AudioCommons: [github.com/AudioCommons/embedded-audiocommons](https://github.com/AudioCommons/embedded-audiocommons).  
Role: Concept and implementation.
- 2018a HCI Python Utils: [github.com/axambo/hci-python-utils](https://github.com/axambo/hci-python-utils).  
Role: Concept and implementation.
- 2017–present WACastMix: [annaxambo.me/code/WACastMix](https://annaxambo.me/code/WACastMix).  
Role: Concept and implementation.
- 2016–present MIRLC: [github.com/axambo/MIRLC](https://github.com/axambo/MIRLC).  
Role: Concept and implementation.
- 2017b HAP: [github.com/axambo/HAP](https://github.com/axambo/HAP).  
Role: Concept and implementation.
- 2017a Beacon: [github.com/axambo/beacon](https://github.com/axambo/beacon).  
Role: Concept and implementation of the audio engine.
- 2016 Algonoise.: [github.com/axambo/algonoise](https://github.com/axambo/algonoise).  
Role: Concept and implementation.
- 2014 SoundXY4: The Art of Noise: [github.com/axambo/soundxy4](https://github.com/axambo/soundxy4).  
Role: Concept, implementation and tangible user interface design.
- 2012 SoundXY: [github.com/axambo/soundxy2](https://github.com/axambo/soundxy2).  
Role: Concept, implementation and tangible user interface design.

## VIDEO CREATIONS & ANIMATION FILMS

- 2003 Xambó, A. *Cosmogonias* (3 min). Spain. Video creation | Animation film.
- 2002b Xambó, A. *b.scope* (3 min). Spain. Video creation.
- 2002a Xambó, A. *Transdata Pr.* (5 min). Spain. Video creation.
- 2000 Xambó, A. *clubsfera* (3 min). Spain. Video creation | Animation film.
- 1999 Xambó, A. *Mitösöma* (10 min). Spain. Video creation | Animation film.
- 1998c Xambó, A. *Lufthansa* (3 min). Spain. Videoclip for La Más Fina.
- 1998b Xambó, A. *Neila* (2 min). Spain. Video creation.
- 1998a Xambó, A. *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 & Flash programming.  
Collaborators: Urtzi Grau (curator), Ana Otero (artistic director).

## Teaching

### GRADUATE COURSES

- 1/2019 Course: *MCT4046 Sonification and Sound Design* (58 h). # Students: ~10.  
Master of Music, Communication and Technology (MCT), Norwegian University of Science and Technology (NTNU), Trondheim, Norway.  
Role: Creation of syllabus, creation of content, instruction, coordination of guest lectures, and assessment.
- 1/2019 Course: *MCT4048 Audio Programming* (58 h). # Students: ~11.  
Master of Music, Communication and Technology (MCT), Norwegian University of Science and Technology (NTNU), Trondheim, Norway.  
Role: Creation of syllabus, creation of content, instruction and assessment.
- 10/2018 Course: *Human-Computer Interaction* (8 h). # Students: ~15.  
Master of Music, Communication and Technology (MCT), Norwegian University of Science and Technology (NTNU), Trondheim, Norway.  
Role: Creation of syllabus, creation of content, instruction and assessment.
- 10/2018 Course: *Physical Computing* (28 h). # Students: ~15.  
Master of Music, Communication and Technology (MCT), Norwegian University of Science and Technology (NTNU), Trondheim, Norway.  
Role: Creation of syllabus, creation of content, instruction and assessment.

### UNDERGRADUATE COURSES

02/2004–06/2004



Course: *Experimental Motion Graphics* (45 h). # Students: ~15.  
Centre de la Imatge i la Tecnologia Multimèdia, Universitat Politècnica de Catalunya, Terrassa, Barcelona.

Role: Co-creation of syllabus, creation of content, instruction and assessment.

10/2003–02/2004 Course: *Crossmedia* (45 h). # Students: ~15.

BAU Escola de Disseny, Universitat de Vic, Barcelona.

Role: Co-creation of syllabus, creation of content, instruction and assessment.

11/2003–06/2004 Course: *Digital Compositing with Adobe AfterEffects* (45 h). # Students: ~10.

Media Art Institute Fak d'Art, Barcelona.

Role: Creation of syllabus, creation of content, instruction and assessment.

11/2003–06/2004 Course: *Photography in Motion* (45 h). # Students: ~10.

Media Art Institute Fak d'Art, Barcelona.

Role: Creation of syllabus, creation of content, instruction and assessment.

11/2003–06/2004 Course: *Type in Motion* (45 h). # Students: ~10.

Media Art Institute Fak d'Art, Barcelona.

Role: Creation of syllabus, creation of content, instruction and assessment.

11/1999–06/2003 Course: *Computer Animation* (90 h). # Students: ~15.

Media Art Institute Fak d'Art, Barcelona.

Role: Creation of syllabus, creation of content, instruction and assessment.

#### PROFESSIONAL COURSES

04/2004–05/2005 Course: *Usability* (12 h). # Students: ~5.

Crea Formació, Barcelona.

Role: Instruction.

04/2004–05/2005 Course: *Internet Design Techniques* (12 h). # Students: ~5.

Crea Formació, Barcelona.

Role: Instruction.

04/2004–05/2005 Course: *Web Design with DreamWeaver* (24 h). # Students: ~5.

Crea Formació, Barcelona.

Role: Instruction.

04/2004–05/2005 Course: *Multimedia Content with Adobe Flash* (16 h). # Students: ~5.

Crea Formació, Barcelona.

Role: Instruction.

04/2004–05/2005 Course: *Flash Programming* (20 h) # Students: ~5.

Crea Formació, Barcelona.

Role: Instruction.

04/2004–05/2005 Course: *Theoretical Aspects in Graphic Design* (12 h). # Students: ~5.

Crea Formació, Barcelona.

Role: Instruction.

04/2004–05/2005 Course: *Video Edition with Adobe Premiere* (60 h) # Students: 1.

Crea Formació, Barcelona.

Role: Creation of syllabus, creation of content and instruction.

#### PRESCHOOL & PRIMARY SCHOOL COURSES

03/2004–06/2004 Course: *Crossmedia infantil* (11 h). # Students (6–7 years old): ~8.

Escola Magòria, Barcelona.

Role: Co-creation of syllabus, creation of content, instruction and assessment.

03/2004–05/2004 Course: *Crossmedia infantil* (9 h). # Students (9–10 years old): ~15.

Escola Costa i Llobera, Barcelona.

Role: Co-creation of syllabus, creation of content, instruction and assessment.

03/2004–05/2004 Course: *Crossmedia infantil* (12 h). # Students (3–4 years old): ~8.  
 Escola Glòries, Barcelona.  
 Role: Co-creation of syllabus, creation of content, instruction and assessment.

## Supervision

11/2018–present Appraisal Committee Member for Hilmar Thordarson, Norwegian Programme for Artistic PhD Research, Norwegian Science and Technology University, Trondheim, Norway.

01/2018–08/2018 Co-advisor of Tayjo Padmini Vaduru (master student in Computer Science, Queen Mary University of London) of her master project proposal on automated generation of soundscapes using content from Audio Commons. Master thesis title: “Moodscape Generator: Automated Generation of Soundscapes”.

05/2016–12/2017 Mentor and advisor the female graduate students of the student-led organization *Women in Music Tech*, including the Chair of the organization, Léa Ikkache, the Editor-in-Chief of the newsletter Amruta Vidwans and female newcomers to the organization, such as Jyoti Narang.

09/2015–05/2016 Co-advisor of Marc Huet and Travis Gasque (master’s students in Digital Media, School of Literature, Media, and Communication) and Anna Weisling (PhD student in Digital Media, School of LMC) for their graduate design project TuneTable. This work has been part of Brian Magerko’s Digital Media studio course at Georgia Tech. From this work we have published at TEI ’17 (see Peer-Reviewed Conference Papers) and we have informed a successful and competitive NSF-funded grant (Advancing Informal STEM Learning Grant).

09/2015–05/2017 Co-advisor of Pratik Shah (master student in Human-Centered Computing, School of Interactive Computing) with the research and design on adding collaborative features to EarSketch, an online platform for learning code by making music. This work has been part of the design and development of the NSF-funded project EarSketch, led by Jason Freeman. From this work we have published at the conferences ICLI ’16 and AM ’17, and also at the AES journal in 2018 (see Peer-Reviewed Conference Papers).

## Additional Experience

### CONCERTS CO-ORGANIZATION

2017 “Noiselets: A Noise Music Microfestival”. (January 8, 2017). Freedonia, Barcelona.

2016c “The First Annual Women in Music Tech: Concert and Reception”. (November 2, 2016). The Garage. Atlanta, GA, USA.

2016b “Audience device participation”. (April 5, 2016). *Web Audio Conference 2016*, Georgia Tech. Atlanta, GA, USA.

2016a “Live coding and the audiovisual web”. (April 4, 2016). *Web Audio Conference 2016*, Georgia Tech. Atlanta, GA, USA.

2013b “Perspectives on multichannel live coding”. (October 4, 2013). PHONOS. Sala Polivalent, UPF. Barcelona.

2013a “Live Coding Sessions II”. (March 22, 2013). Niu. Barcelona.

2012 “Live Coding Sessions”. (March 15, 2012). Niu. Barcelona.

### BLOGGING

09/2018–present [Women Nordic Music Technology](#), the website and blog of the WoNoMute organization. Co-Creator and Coordinator.

08/2018–present [MCT master blog](#), the blog of the MCT master. Co-Creator and Co-Coordinator.  
 05/2017–07/2018 [Audio Commons](#), the blog of the EU-funded project Audio Commons. Coordinator, Reviewer and Author.  
 10/2016–present [Anna Xambó's Blog](#), the blog of my personal website. Creator and Author.  
 05/2016–12/2017 [Women in Music Tech](#), the newsletter of the Women in Music Tech organization. Co-Creator, Co-ordinator, Reviewer and Author.  
 09/2013–08/2014 [MIDAS's Blog](#), the research blog of the MIDAS project. Co-Creator, Coordinator and Author.  
 01/2010–12/2011 [postWIMP](#), a blog on HCI and interaction design. Co-Creator, Coordinator 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 b4ng, a multidisciplinary collective in search of new forms of audiovisual communication. Barcelona.  
 1998–2000 Co-Founder and Member of the experimental video collective *jesus13*. Barcelona.

## Professional Activities

#### PROFESSIONAL ORGANIZATION MEMBER

*Association for Computing Machinery (ACM).*  
*International Computer Music Association (ICMA).*

#### ACADEMIC PROGRAMME LEADER

01/2019–present MCT PROGRAMME STUDY LEADER Department of Music, NTNU.  
 01/2019–present MCT PROGRAMME COUNCIL LEADER, Department of Music, NTNU.

#### ACADEMIC CHAIR / COMMITTEE MEMBER / CONFERENCE CHAIR

2019d LOCAL COMMITTEE MEMBER. *International Conference of Live Interfaces 2020*. Trondheim, Norway.  
 2019c GENERAL CO-CHAIR. *Web Audio Conference 2019*. Trondheim, Norway.  
 2019b PAPER CO-CHAIR. *New Interfaces for Musical Expression 2019*. Porto Alegre, Brazil.  
 2019a PROGRAMME COMMITTEE MEMBER. *ACM Creativity & Cognition 2019*. San Diego, USA.  
 2018 PROGRAMME COMMITTEE MEMBER. *ACM Spatial User Interaction 2018*. Berlin, Germany.  
 2017c SESSION CHAIR. *Web Audio Conference 2017*. London.  
 2017b PROGRAMME COMMITTEE MEMBER. *Second Conference on Computer Simulation of Musical Creativity*, Open University. Milton Keynes, UK.  
 2017a LOCAL COMMITTEE MEMBER. *International Conference on Computational Creativity 2017*, Georgia Tech. Atlanta, GA, USA.  
 2016b CO-FOUNDER & CO-CHAIR. *Women in Music Tech Committee*, GTCMT, Georgia Tech. Atlanta, GA, USA.  
 2016a MUSIC/ARTWORKS CO-CHAIR. *Web Audio Conference 2016*, Georgia Tech. Atlanta, GA, USA.  
 2011b SESSION CHAIR ("Laptop/Coding/NI"). *International Computer Music Conference*. Huddersfield, UK.  
 2011a COMMITTEE MEMBER. *CRC PhD Student Conference 2011*, OU. Milton Keynes, UK.

#### CONFERENCE REVIEWER

2018 *ACM Special Interest Group on Computer GRAPHics and Interactive Techniques (SIGGRAPH)* (2018).  
 2018 *International Conference of the Learning Sciences* (2018).

- 2018–2019 *International Society for Music Information Retrieval Conference* (2018–2019).
- 2017–2019 *ACM Creativity and Cognition* (2017, 2019).
- 2017 *ACM Innovation and Technology in Computer Science Education* (2017).
- 2017 *Co-Creation Workshop at International Conference on Computational Creativity* (2017).
- 2017–2018 *International Computer Music Conference – ICMC Music* (2017, 2018).
- 2016 *International Conference on Live Interfaces* (2016).
- 2016 *ISSTA International Festival and Conference on Sound in the Arts, Science and Technology* (2016).
- 2016–2019 *Web Audio Conference* (2016–2019).
- 2015–2019 *ACM Special Interest Group on Computer-Human Interaction* (2015–2019).
- 2013c *IEEE Interactive Tabletops and Surfaces* (2013).
- 2012–2018 *ACM Designing Interactive Systems* (2012, 2016, 2018).
- 2012–2018 *ACM Tangible, Embedded and Embodied Interaction* (2012–2018).
- 2011–2019 *New Interfaces for Musical Expression* (2011–2019).

#### JOURNAL REVIEWER

- 2018d *PLOS One*. Public Library of Science.
- 2018c *British Journal of Educational Technology*. Wiley.
- 2018b *Journal of New Music Research*. ScholarOne Manuscripts.
- 2018a *Transactions on Computing Education*. ACM.
- 2017 *Journal of Audio Engineering Society*. Audio Engineering Society.
- 2016b *Interacting with Computers*. Oxford Journals.
- 2016a *Qualitative Research*. Sage Publications.
- 2015 *International Journal of Human-Computer Studies*. Elsevier.

#### PANELIST

- 2018e (November 21, 2018). *Panel: Women in Music Technology around the World* with Nela Brown (FLO), Magdalena Chudy (FLO), Liz Dobson (YSWN), Ada Mathea Hoel (WoNoMute), Léa Ikkache (WiMT), Tuna Pase (FLO), Franziska Schroeder (FLO), Ariane Stolfi, (Sonora) Sonia Wilkie (FLO) and Anna Xambó (WoNoMute, WiMT). Sonic Arts Research Center, Queen's University Belfast. Belfast, Northern Ireland.
- 2018d (November 15, 2018). *Panel: Future of the Music Industries* with Joe Lyske (chair, MXX), Jesper Skibsby (panelist, WARM), Nick Breen (panelist, Reed Smith) and Anna Xambó (panelist, NTNU). Resonate Music Conference 2018. Barras Art and Design (BAAD), Glasgow, Scotland, UK.
- 2018c (October 26, 2018). *Panel Session 3: Equality, Diversity, Gender* with Thomas Hilder (chair), Jill Diana Halstead Hjørnevik (panelist), Sunniva Skjøstad Hovde (panelist), Vivian Anette Lagesen (panelist), and Anna Xambó (panelist). Knowing Music – Musical Knowing: Cross disciplinary dialogue on epistemologies. International Music Research School 2018, NTNU. Dokkhuset, Trondheim, Norway.
- 2018b (July 4, 2018) *The Disturbing Discussion about Innovation* with Nicolas d'Alessandro (panelist), Tom Mitchell (panelist), Anna Xambó (panelist), and Matthias Strobel (moderator). Wallifornia MusicTech Hackathon. Liège, Belgium.
- 2018a (June 6, 2018) *Future, Democratization, and Globalization of NIMEs* with Onyx Ashanti (panelist), Peter Nyboer (panelist), Anna Xambó (panelist), Pamela Z (panelist) and R. Benjamin Knapp (moderator). NIME '18. Moss Arts Center: Anne and Ellen Fife Theatre. Blacksburg, VA, USA.

#### COACH

- 2018 (July 4, 2018) Wallifornia MusicTech Hackathon. Liège, Belgium.

## JURY MEMBER

- 2018 *COLLAB2018*, Institute of Electronic Music and Acoustics (IEM), University of Music and Performing Arts, Graz, Austria.
- 2016 *MOOG Hackathon 2016*, GTCMT, Georgia Tech. Atlanta, GA, USA.

## MUSIC JUDGE

- 2018 *Celebrating Women in Sound, 8 March 2018*, Goldsmiths University, London.
- 2017b *National Student Electronic Music Event 2017*, Louisiana State University. Baton Rouge, LA, USA.
- 2017a *EarSketch National Competition 2017*, GTCMT, Georgia Tech. Atlanta, GA, USA.

## CONSULTANCIES

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

## ENTREPRENEURSHIP

- 08/2018–present *Women Nordic Music Technology (WoNoMute)*, NTNU, Trondheim, Norway.  
Co-Founder and Chair of *WoNoMute*, an organization at NTNU that aims to promote and connect the work of women in music tech at local, national and international levels. This includes the curation and organization of a monthly seminar series of talks, the creation of an online archive and generation of related content to give more visibility to the work of women in music tech.
- 05/2016–12/2017 *Women in Music Tech*, Atlanta, GA, USA.  
Co-Founder and Co-Chair of *Women in Music Tech*, the first student organization at GTCMT that looks into bringing more women into the program of music technology with actions on recruitment, external communication, internal communication, and creating a safe space.
- 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

- 07/2018 Filmuniversität Babelsberg KONRAD WOLF, Potsdam, Germany.
- 05/2012 University of Strathclyde, Glasgow, Scotland, UK.
- 06/2011 University of Strathclyde, Glasgow, Scotland, UK.
- 04/2011–05/2011 UPF, Barcelona, Spain.
- 03/2010–06/2010 The Open University, Milton Keynes, UK.

## Skills

### LANGUAGES

Catalan (native or bilingual proficiency), Spanish (native or bilingual proficiency), English (full professional proficiency), Norwegian (basic level), 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, Web Audio, XML.

Scientific Apps: MATLAB, Octave, R, SPSS.

Version Control Systems: CVS, Git, Subversion.

Music Apps: DAWs (Ableton Live, Cubase, Reaper, Logic Pro), Max/MSP, PureData, SuperCollider, wave editors (Audacity, SoundForge, WaveEditor).

Text & Multimedia Analysis Apps: ELAN, MAXQDA, 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). Jekyll.

Hardware: Arduino, Bela.