

## Francisco Bernardo, Eng, MSc, MA

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### Academic history

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**2015-Now - PhD in Computer Science – Department of Computing – Goldsmiths University of London, UK.** Full-time PhD candidate focusing on interactive machine learning for end-user innovation with multimodal, interactive and expressive technologies.

**2013-2014 - Science and Technology of the Arts Doctoral Programme - Portuguese Catholic University, Portugal.** Attended curricular year, defined PhD research topic [1], published three papers and several communications before being invited to Goldsmiths University of London.

**2011-2013 - MA in Management of the Creative Industries (2 year degree, Summa Cum Laude - 1st of class) - Portuguese Catholic University, Portugal.** Thesis focused on Creativity and Innovation in the Music Industry; the evolution of independent business models and value chain of the music industry; produced several publications and communications, including an award winning paper in a specialty journal [2] and a finalist distinction in a national business model competition.

**2006-2009 - MSc in Mobile Systems (2 year degree) - University of Minho, Portugal.** Thesis focused on situated interaction with ubiquitous environments via Bluetooth; designed and implemented a simple language and interpreter, developed and deployed a multi-station system installation on a large shopping mall collecting research data for a month, and published a paper [3].

**2000-2006 - Licenciatura in Computer Science and Systems Engineering (5 year Engineering degree), University do Minho, Portugal.** Final project was a J2ME library to support distributed communication in personal area networks over Bluetooth, for multiplayer games in Symbian mobile phones, and a simple multiplayer graphical game using the library (support by Nokia Portugal).

### Work experience

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**2015-Now – EAVI group - Department of Computing – Goldsmiths University of London, UK** Researcher in EU H2020-funded project [RAPIX-MIX](#) (H2020-ICT-2014-1 Project ID 644862).

**2013-2015 - Research Centre for Science and Technology of the Arts (CITAR) - Portuguese Catholic University, Porto, Portugal.** Research assistant in [VisualYzArt](#), designed and developed experimental prototypes for interactive audiovisuals and videogame engines, with 3D natural user interfaces based on human motion capture, with physics and procedural audio technologies. Produced state-of-the-art and market research documentation and published academic papers [1]. Lectured interactive sound design module at the Digital Design Post-Graduation degree.

**2007-2013 - Ubisign, Digital signage software solutions - PRIMAVERA BSS, Braga, Portugal** Software engineer, project manager in R&D for Corporate TV, Interactive Digital Signage ([Ubisign](#)) and Business Intelligence ([PrimaveraBSS](#)), developed cloud-based software infrastructures, video applications and components, complex user interface architectures and interaction design for desktop, web, mobile and augmented reality applications.

**2006-2007 - Ubicomp group, ALGORITMI Research Centre, University of Minho, Portugal** Research assistant, developed context-aware applications using sensor fusion, computer vision, video and image processing for situated interaction with public screens and graphical applications.

### Honours/Awards/Scholarships

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Best Paper award at Vienna Music Business Research Days, 2013.

Three research grants awarded by *Fundação da Ciência e Tecnologia* (FCT) in 2006, 2007 and 2013. Finalist at National Grand Prize of Creative Industries 2012, Portugal (10/492 projects).

The People's Music Awards in the Off-the-Beat music category with [papercutz](#), London 2009.

### Selected publications

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[1] Bernardo, F., Pestana, P., Martins, L. (2015). [The Smart Stage: Designing 3D Interaction Metaphors for Immersive and Ubiquitous Music Systems](#). International Conference on New Music Concepts (ICNMC 2015), Treviso, Italy - ISBN: 978-88-6551

[2] Bernardo, F., Martins, L. (2014). [Disintermediation Effects on Independent Approaches to Music Business](#). International Journal of Music Business Research (IJMBR) – ISSN: 2227-5789

[3] José, R., Bernardo, F. (2009). *Extended Bluetooth naming for empowered presence and situated interaction with public displays*. 3th Symposium of Ubiquitous Computing and Ambient Intelligence 2008, Salamanca, Spain. (<http://www.springerlink.com/content/t180621rl4qt1612/>).