

Jonas Runa CV

(João Manuel Marques Carrilho, born: Lisbon, 14 Nov. 1981)

jonasruna@gmail.com

www.jonasruna.com

Composer/improviser, researcher and musicologist. Inventor of electronic musical instruments.

He studied Physics and Mathematics at Instituto Superior Técnico (Technical University of Lisbon), from 1999 to 2003. In 2008 he completed a B.A. in Sonology at the Royal Conservatory of The Hague (Netherlands), under the supervision of composers Konrad Boehmer and Clarence Barlow. In 2015, he completed a PhD in Science and Technology of Arts, majoring in Computer Music at the Portuguese Catholic University, with the thesis "Aesthetics of Music Informatics: Unrealized Musical Energy". (Latin honor: *Magna cum Laude*)

Jonas Runa often collaborates with the international artist Joana Vasconcelos, participating in the *55th Venice Biennale* (2013) where he performed two concerts ("Solo with Robot Orchestra" and "Jonas Runa Cosmic Ensemble") and a conference ("From Luigi Nono to the XXIst century: an infinity of possibilities ") aboard the ship "Trafaria Praia" - Pavilion of Portugal. In 2014, the collaboration involved the composition of an electroacoustic symphony for 168 phones integrated in the work "Call Center" by Joana Vasconcelos.

In 2015, he participated in the *56th Venice Biennale* with the electronic performance "Sinchronicity", presented in the context of the work "Giardino dell'Eden" (Garden of Eden), by Joana Vasconcelos.

He created with Jorge Lima Barreto the duo "Zul Zelub" in 2007, an experimentalist conceptual proposal for piano and electronic art music. "Zul Zelub" edited the CD "Ultimaton" and held concerts at the Royal Conservatory of the Hague (Netherlands), Casa da Música (Oporto, Portugal) and Culturgest (Lisbon, Portugal), among many others. This duo collaborated with major artists in the field of "free improvisation", such as Eddie Prevost or Jac Berrocal. The concerts always included components of multimedia, video-art or performance.

He composed music for contemporary dance, collaborating with choreographer Clara Andermatt in the works "Dez Mil Seres" (2012), "Fica no Singelo" (2013), "Dance Ballerina Dance" (2013) – with the Nation Ballet Company of Portugal - and "Novo Velho Circo" (2015). He was the musician and programmer of *Personare*, a telematics dance performance (involving live-streaming), presented simultaneously in three countries: Portugal, Brazil and Chile.

He has worked with astrophysicists by making concerts accompanying the observation of stars with telescopes in *Dark Sky Alqueva*, the first starlight tourism destination in the world recognized by UNESCO for its low luminosity levels. For these concerts, Jonas Runa developed the concept of *Intuitive Cosmic Music*. At the event, he has also lectured on music and the cosmos.

He realized several concerts with the Siberian musician, philosopher and shaman Spiridon Shishigin, the world's leading khomus player (duo "Khomus / Kyma"), being named in 2011 the Portuguese representative of the Siberian khomus music and IJHS (International Jew's Harp Society).

He is the author of 10 scientific papers, and has presented 12 conferences in Portugal and abroad, including the Venice Biennale. He composed music for the video installation "1989", which won the first prize of the Sonae Media Art 2015, among other prizes.

Jonas Runa was nominated in 2015 as one of the 25 most innovative people in Portugal, a prize attributed by AUDI and the television network SIC Notícias.

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0. Education and Degrees

1999-2001: studied *Physics* at Instituto Superior Técnico, Technical University of Lisbon

2001-2003: studied *Applied Mathematics and Computation*, Instituto Superior Técnico, Technical University of Lisbon

2004-2008: **B.A. (Bachelor of Arts)**: *Sonology (Composition, performance and research in electronic music)*, Royal Conservatory of the Hague, Institute of Sonology, The Netherlands. Thesis: "*Elettronica Triptikon*", supervised by Konrad Boehmer and Peter Pabon.

2008-2015: **PhD**: *Science and Technology of the Arts, specialization: Computer Music*. Portuguese Catholic University. Thesis: "*Aesthetics of Music Informatics: Unrealized Musical Energy*"¹ (Latin honor: *Magna cum Laude*), supervised by António Sousa Dias.

DeGóis: <<http://www.degois.pt/visualizador/curriculum.jsp?key=2891105809311734>>

ORCID: <<http://orcid.org/0000-0003-4152-0363>>

1. Musical Improvisation

1.1 - Zul Zelub concerts (Jonas Runa & Jorge Lima Barreto)

- 1) Royal Conservatory of the Hague, Netherlands, 17-07-2008
- 2) Culturgest, Ciclo 'Isto é Jazz?', Lisbon, 10-12-2010 (with Eddie Prévost)²
- 3) Casa da Música, Porto, 14-11-2009 (with Jac Berrocal and videoart by A. Palolo)³
- 4) Museu do Chiado, Jardim das Esculturas, Lisboa, 29-07-2010⁴
- 5) Festa do Avante, Auditório 1º de May. 05-09-2009 (with Eddie Prévost, Vítor Rua and Jamie Coleman)
- 6) Trem Azul, Lisboa, 26-05-2009⁵
- 7) XV Bienal de Cerveira, Vila Nova de Cerveira, 27-09-2009 (with videoart by A. Palolo)⁶
- 8) Festa do Avante, Auditório 1º de May, 06-09-2008 (with Steve Noble and Vítor Rua)

1.2 - Zul Zelub discography (Jonas Runa & Jorge Lima Barreto)

- (CD) Zul Zelub. *Ultimaton*. Plancton Music. 2012⁷
- (CD) Jorge Lima Barreto. *Zul Zelub*. Clean Feed, 2008⁸
- (DVD) Zul Zelub at Culturgest (with Eddie Prévost), 2011. [Author edition]
- (DVD) Zul Zelub at Casa da Música (with Jac Berrocal), 2012. [Author edition]

¹ <<http://repositorio.ucp.pt/handle/10400.14/16723>> .

² <http://www.culturgest.pt/arquivo/2010/docs/ZulZelub_FSLite.pdf> .

³ <http://www.casadamusica.com/flash/book_09nov/html/8.html> .

⁴ <<http://bodyspace.net/ultimas/1108-duo-zul-zelub-apresenta-se-ao-vivo-no-museu-do-chiado/>> .

⁵ <<http://tremazul.wordpress.com/2009/05/21/concerto-zul-zelub-jorge-lima-barreto-e-jonas-runa/>> .

⁶ <<http://soniaabranteres.wordpress.com/2009/09/01/zul-zelub-de-jorge-lima-barreto-e-jonas-runa-om-de-antonio-palolo-na-xv-bienal-de-erveira/>> .

⁷ <<http://zulzelub.bandcamp.com>> .

⁸ <<http://www.cleanfeed-records.com/disco2.asp?intID=243>> . Consultado a 2 de July de 2013

1.3 –Khomus/Kyma concerts (Jonas Runa & Spiridon Shishigin)

- 1) Museu do Côa, Vila Nova de Foz Côa, 15-09-2011⁹
- 2) XVI Bienal de Cerveira, Vila Nova de Cerveira, 17-09-2011(with performance by Manoel Barbosa)¹⁰
- 3) Palácio Nacional da Ajuda, Sala da *Valquíria Real*. Exhibition by Joana Vasconcelos, 28-03-2013 (with Ivan Alexeev)
- 4) O Espaço do Tempo, Convento da Saudação, Montemor-o-Novo, 30-03-2013 (with Ivan Alexeev)¹¹
- 5) Museu da Música Portuguesa, Casa Verdades de Faria, Monte Estoril, 07-04-2013 (with Ivan Alexeev)¹²
- 6) *Khomus Musik Festival & World Conference Meeting*. Leipzig, Germany. August 2014 (with Ivan Alexeev)

1.4 – Intuitive Cosmic Music concerts

- 1) Concert + Astronomical Observations. Dark Sky Alqueva. Starlight Party Alqueva, Castelo de Mourão. 15-08-2015¹³.
- 2) Concert + Astronomical Observations Dark Sky Alqueva. Convento da Orada. 22-08-2014.

1.5 – Other Concerts

- 1) Concert by Jonas Runa with performance by Manoel Barbosa. Festival Sintropia | Artes e Desenvolvimento Sustentável. Colares, Sintra. 19-09-2014
- 2) Concerto by Jonas Runa (Kyma) and João Barradas (Accordion). Teatro Thalia. Lisbon Week 2013, 26-09-2013.
- 3) *Zul Telectu* (Jonas Runa & Vítor Rua). Museu Nacional de Arte Contemporânea do Chiado (MNAC). 19-12-2015
- 4) *Zul Telectu* (Jonas Runa & Vítor Rua) – Clube Ferroviário. Sta. Apolónia. Lisboa, 24-07-2015¹⁴
- 5) *Zul Telectu* (Jonas Runa & Vítor Rua) - 7ª Temporada de Música do Instituto Superior Técnico. Salão Nobre do IST. Lisboa, 12-11-2014
- 6) *Zul Telectu* (Jonas Runa & Vítor Rua) 1ª Bienal Jorge Lima Barreto, Centro Cultural dos Condes de Vinhais (with Chris Cutler), Vinhais, 05-07-2014
- 7) *Zul Telectu* (Jonas Runa & Vítor Rua) Casa da Escrita, ciclo ‘*Nas Escritas Po.Ex*’, Coimbra, a 12-04-2013
- 8) *Cante Acusmático* (Grupo Coral e Etnográfico “Os Camponeses de Pias”, Jonas Runa, Vítor Rua e António Duarte) Musibéria - Centro Internacional de Músicas e Danças do Mundo Ibérico, Serpa, 23-01-2016¹⁵

⁹ <<http://ml.ci.uc.pt/mhonarchive/archport/msg11954.html>> .

¹⁰ com imagens de: António Barros, Elisabete Mileu, Ernesto M. Mello e Castro, Fernando Aguiar, Joana Vasconcelos, Luís Vasconcelos, Manoel Barbosa, Rui Orfão, Silvestre Pestana. <<http://www.bienaldecerveira.pt/portal/page/portal/fbac/16bienaldecerveira/atividades/concertoseespectaculos/zulzelub>> .

¹¹ <http://www.oespacodotempo.pt/pt/prog.php?idpan=pro_det&recid=784>

¹² <<http://www.cm-cascais.pt/evento/conversas-com-musica-khomus-e-kyma-fois-instrumentos-musicais-descobrir>>

¹³ <<http://www.darkskeyalqueva.com/starlight-party-alqueva-14-e-15-de-agosto-em-mourao-inscreva-se-ja-entrada-gratuita-para-todas-as-atividades/>>

¹⁴ <<http://www.viralagenda.com/pt/events/169354/vitor-rua-electronic-suite-concerto-40-anos-de-carreira>>

¹⁵ <<https://www.viralagenda.com/pt/events/201461/cante-acusmatico-de-pias>>

2. Musical Composition

2.1 – Music and Fine Arts

Synchronicity (2015). Performance integrated in the installation -Giardino dell'Eden- by Joana Vasconcelos; 56th Venice Biennale - Swatch Pavilion, 5, 6, 7, 8, 9 May 2015. “Synchronicity” is an interactive solo performance, combining: a) motion sensors (gyroscope and accelerometers); b) an electroluminescent light costume controlled wirelessly by a microprocessor (Arduino) and c) Electronic art music. “Synchronicity” is performed inside -Giardino dell'Eden- (an installation by Joana Vasconcelos) and conceptually inspired by the homonymous book of C.G. Jung.

Call Center (2014), by Joana Vasconcelos, with electroacoustic symphony composed by Jonas Runa. (Analogue telephones, metallized and thermo-lacquered mild steel, sound system, oscillators driven by microcontrollers)¹⁶

Piano Dentelle Electrolírico (2014). Composition/Performance by Jonas Runa in the work *Piano Dentelle*, by Joana Vasconcelos, 2008-2011. (Pfeiffer grand piano, piano stool, Azores crocheted lace)¹⁷

Solo with Robot Orchestra (2013). Concert at the 55° Venice Biennale, Italy. Pavilion of Portugal – Cacilheiro *Trafaria Praia* by Joana Vasconcelos. Musical Composition using the Robot Orchestra of Logos Foundation (Ghent, Belgium).

Jonas Runa Cosmic Ensemble (2013). Concert at the 55° Venice Biennale. Italy. Pavilion of Portugal - Cacilheiro *Trafaria Praia* by Joana Vasconcelos. Musicians: Jonas Runa (Kyma), Spiridon Shishigin (Khomus), Jin Hi Kim (Komungo), Eddie Prévost (Percussion)¹⁸.

2.2 – Musical Composition for Contemporary Dance

Personare, Embodied in Vários Darmstadt '58 (2014). (Jonas Runa: Musician and Programmer) Telematics Dance in three countries simultaneously: Portugal, Chile and Brazil. [Video and audio broadcast live over the Internet, and retransmitted in every theater of each country]. global and Brazilian team direction: Ivani Santana. Direction of the Chilean team: Rolando Cori. Direction of the Portuguese team: Daniel Tercio. Premiere in Portugal: Amphitheatre 1 Faculty of Human Kinetics, Cruz Quebrada, 27 and 28 September 2014.

Dez Mil Seres (2012)¹⁹. Choreography by Clara Andermatt. Interpretation: *Grupo Dançando com a Diferença*.

Centro das Artes Casa das Mudas, Calheta, Madeira. Portugal: 8 november 2012.

9, 10, 11 november 2012.

Jardins das Grutas de São Vicente, Madeira: 19 August 2013.

Teatro Cacilda Becker, Rio de Janeiro, Brasil: 12 September 2013

Dance Bailarina Dance (2013)²⁰. Choreography de Clara Andermatt. Interpretation: *Companhia Nacional de Bailado*.

Estreia a 26 de April de 2013, no Teatro Camões em Lisboa. Outras apresentações no Teatro Camões de 27-29 de April de 2013, e de 3 a 5 de May de 2013

¹⁶ <<http://www.joanavasconcelos.com/info.aspx?oid=2859>>

¹⁷ <<http://www.joanavasconcelos.com/info.aspx?oid=97>>

¹⁸ <<http://www.vasconcelostrafariapraia.com/en/programacao/>>

¹⁹ <<http://www.clara-anderstatt.com/index.php/pt/criacoes/outras-producoes/53-os-dez-mil-seres>>

²⁰ <<http://www.clara-anderstatt.com/index.php/pt/criacoes/outras-producoes/121-danca-bailarina>>

Fica no Singelo (2013)²¹. Choreography by Clara Andermatt
13, 14 December 2013 - Teatro Viriato, Viseu
24, 25 January 2014 - Culturgest, Lisboa
6 February 2014 - Centro Cultural Vila Flôr, Guimarães
6, 7 June 2014 - Teatro Nacional S. João, Porto
13 June 2014 - Fundação Eugénio de Almeida, Évora (Festival Lá Fora)
27 September 2014 - Teatro Virgínia, Torres Novas (Festival Materiais Diversos)
5 December 2014- Cine-Teatro de Estarreja

Suspensão (2015/2016). Authors: Jonas Runa, Clara Andermatt and António Sá Dantas.
25 November 2015 –Teatro Viriato, Viseu
12 March 2016 – Teatro Viriato, Viseu
13 May 2016 – Teatro Municipal Joaquim Benite, Almada

2.3 – Electronic Music Composition and for unconventional instruments

Sagres (CD) (2011), for 8 Navy-Whistles and Kyma X. [Author Edition]
Performed by: Sailors of Navio-Escola Sagres
Navio NRP “Sagres”, Jardim do Tabaco, Lisboa
30 October 2012, dia das comemorações dos 75 anos do Navio NRP Sagres
Hypomnemata / Hypognosis (CD) (2011), Computer Music, Kyma X. [Author Edition]
Ad Herenium (CD) (2011), Computer Music, Kyma X. [Author Edition]
Olissipo/Quasar (CD) (2010), Computer Music, Kyma X. [Author Edition]
Voronoy/Non-Linear Models (CD) (2010), Computer Music for Virtual Ensembles. [Author Edition]
Iantra (CD) (2009), Computer Music, Kyma X. [Author Edition]
Hot Spot/Hen Kai Pan (CD) (2009), Computer Music. [Author Edition]
Litotes (CD) (2008), Computer Music. [Author Edition]
Kaosmology (CD) (2008), Computer Music. [Author Edition]

2.4 – Musica Composition for conventional instruments (Musical Scores published by MIC – Portuguese Music Research & Information Centre)

- 1) ***Il Contrappunto di Specie*** (2007), for solo Flute and electronics
- 2) ***Fluxo*** (2008), for solo Piano
- 3) ***Occam’s Razor*** (2008), Chamber Music (+ 8 instruments and electronics)
- 4) ***Negus*** (2009), for solo Organ
- 5) ***Echi Colorati*** (2011), for solo Piano and electronics
- 6) ***Malevich*** (2011), for Orchestra and Kyma X. Solista(s) e Orq./Ens. e/ou Choir/Conjunto vocal amplification and live-electronics
- 7) ***Luna Andermatt*** (2013), for Orchestra
- 8) ***Sylvano Bussotti*** (2013), for Orchestra

2.5 – Musical Composition for Contemporary Circus

Novo Velho Circo (2015). Direction: Clara Andermatt. Production: ACCCA e Radar 360. Co-producers: Teatro Viriato, Rivoli Teatro Municipal, Centro Cultural Vila Flôr

²¹ <<http://www.clara-anderematt.com/index.php/pt/criacoes/producoes-accca/175-fica-no-singelo>>

2.6 – Inter-artistic projects

Modo Portátil (homenagem a Constança Capdeville). Coordination: Carlos Martins. Authors: André e. Teodósio, António de Sousa Dias, Inês Botelho, Joana Sá, Jonas Runa, José Luís Ferreira, Luiz Antunes, Nuno Moura, Patrícia da Silva, Ramiro Guerreiro, Tatiana Macedo.
13 e 14 de February de 2014 – Centro Cultural de Belém, Lisboa

2.7 – Performance Art

Jonas Runa & Rui Reininho. Performance: Jonas Runa & Rui Reininho. Costume: Filipe Faísca. Scenic Space: Joana Vasconcelos, Jonas Runa, Rui Reininho. Atelier Joana Vasconcelos, 25 May 2016

2.8 – Music and Poetry

Quintas de Leitura – A Poesia vai acabar. Performance by Jonas Runa and Clara Andermatt.
Teatro Municipal Rivoli. Porto 19-02-2015²²

2.9 – Music and Theater

Sonic Rumble (2015) Musical composition by Jonas Runa and Vítor Rua. Festival de Teatro “À grande e à francesa” – artistic consultant: Caroline Bergeron, Teatro Viriato, Viseu, 16-11-2016²³

3. Conferences

Cosmic Music: Sound as a vibration of Life (2015). Festival Starlight Party Alqueva | O céu e a terra como património da humanidade, Castelo de Mourão, Mourão, 15 August 2015²⁴

Music in the age of technoscience (2014). Semana Internacional do Audiovisual e Multimédia, University Lusófona, Lisboa, a 3 December 2014.

Invisible Instruments (2014). Conferência/Workshop realizado na 7ª Temporada de Música do IST, no Salão Nobre do Instituto Superior Técnico, a 13 de November de 2014.

Invisible Instruments (2014). Conferência/Workshop realizado no festival Sintropia | Artes e Desenvolvimento Sustentável. Colares, Sintra, 20 de October de 2014

The liberation of Sound (2014) Colóquio organizado pelo Departamento de Física do Instituto Superior Técnico. Lisboa, 15 de October de 2014

Unrealized Musical Energy (2014). na 1ª Bienal Jorge Lima Barreto, Centro Cultural dos Condes de Vinhais, Vinhais, 6 de July de 2014

In Praise of Openness. no contexto do ciclo ‘Quintas Abertas – Agricultura Electroacústica’, Miso Music Portugal, Parede, Portugal, a 7 de November de 2013. Música de Jonas Runa e G.M. Koenig.

From Luigi Nono to the XXIst Century : An Infinity of Possibilities (2013). Conferência de Jonas Runa e Alvisé Vidolin, realizada na 55º Bienal de Veneza, Itália. Pavilhão de Portugal – Cacilheiro Trafaria Praia de Joana Vasconcelos. 12 de October de 2013

Invisible Instruments: science and technology in contemporary artistic practice (2013) ciclo “ARTES PERFORMATIVAS E TECNOLOGIAS” – Conferências, Microlaboratórios, Performances e Debates, na Culturgest, Lisboa, a 20 de May de 2013

²² <<http://www.porto.pt/noticias/medalha-de-honra-da-cidade-entregue-nas-quintas-de-leitura->>

²³ <<http://www.teatroviriato.com/pt/calendario/a-grande-e-a-francesa/>>

²⁴ <<http://www.darksyalqueva.com/starlight-party-alqueva-14-e-15-de-agosto-em-mourao-inscreva-se-ja-entrada-gratuita-para-todas-as-actividades/>>

Jorge Lima Barreto (2013). Casa da Escrita, ciclo 'Nas Escritas Po.Ex', em Coimbra, a 12 de Abril de 2013. Comissário: Jorge Pais de Sousa

Entre a Música e a Dança (2013). Ciclo de três conferências/workshops integradas no PAD – Projetos de Aproximação à Dança, e realizadas no Teatro Camões, em Lisboa, a 9, 10 e 11 de Abril de 2013

Khomus e Kyma: dois instrumentos musicais a descobrir (2013). Casa Verdades de Faria - Museu da Música Portuguesa, Monte Estorial, a 7 de Abril de 2013

Vertical Structures - Aspects of Form and Timbre in Compositional Systems (2008), CASS Seminars (Composition/ArtScience/Sonology), Conservatório Real de Haia, Holanda, (Seminário).

4. Thesis, books and articles

Marques Carrilho, J. M. (2015) **Aesthetics of Music Informatics: Unrealized Musical Energy**. PhD Thesis. Portuguese Catholic University. PhD in Science and Technology of the Arts, specialization in Computer Music. Supervisor: António de Sousa Dias. Latin honor: *Magna cum Laude*

Marques Carrilho, J. M. (2016). **Sound at the edge of consciousness: biomusicology and quantum biology**. Animalia Vegetalia Mineralia. Revista de Ecomedia e estudos Ecocríticos. ISSN 2183-265X

Marques Carrilho, J. M. (2015). **Zoomusicology: Sound as a vibration of life**. Animalia Vegetalia Mineralia. Revista de Ecomedia e estudos Ecocríticos. ISSN 2183-265X

Marques Carrilho, J. M. (2015). **Zoomusicology: The wisdom of living sound** (5 artigos). Animalia Vegetalia Mineralia. Revista de Ecomedia e estudos Ecocríticos. ISSN 2183-265X

Marques Carrilho, J.M. (2013) **Paradoxologia Musicográfica Futura** (no prelo)

Marques, Carrilho, J.M., Lima Barreto, J. (2011). **Zul Zelub e a Energia Musical Irrealizada**. Revista Triplov. Organização: António Barros.

Marques Carrilho, J. M. (2009). **Musica Electronica Documenta**. Açores: Atlantida - Revista de Cultura. (Artigo)

Marques Carrilho, J.M. (2008) **Eletronika Triptikum**. Tese de Licenciatura em Sonologia: Composição, Performance e Investigação em Música Eletrónica, apresentada ao Instituto de Sonologia, Conservatório Real de Haia, Holanda. Orientador: Konrad Boehmer. Co-orientador: Peter Pabon.

Marques Carrilho, J. M. (2007). **Música e Filosofia no Tempo de Avicenna**. Açores: Atlântida - Revista de Cultura. (Artigo)

4.1 Interviews

Interview: Anne Teresa de Keersmaeker

Interview: Clarence Barlow

Interview: Emanuel Dimas de Melo Pimenta

Interview: Luna Andermatt

Interview: Jorge Lima Barreto

[Interviews included in Marques Carrilho, J. M. (2015) **Estéticas da Informática Musical : A Energia Musical Irrealizada**. PhD Thesis]

5. Prizes, honorary titles and other distinctions

(2011) Appointment as Portuguese representative khomus Siberian music , awarded by The Museum and Centre of the Khomus of the World Peoples (Russia)

(2014) Music Composition of Electronic Soundscapes of "Fica no Singelo", awarded the best 2014 Dance Show (Choreography: Clara Andermatt) by Público - Ípsilon.

(2015) Distinguished as one of the 25 most innovative Portuguese in all areas under the award " Innovative Nation " , awarded by SIC Notícias and by AUDI .

(2015) Sound design and musical composition of the work of video art " 1989 " , which won the first prize of the Award Sonae Media Art (video: Tatiana Macedo) SONAE / National Museum of Contemporary Art

6. Software/Hardware

Suspensão(2016). (Supercollider, Arduino). Software: Supercollider / hardware: 2 Arduinos, 12 LDR – Light dependente resistors

Novo-Velho-Circo (2015). (Max/Msp)

Instrumentos Invisíveis (2013-2015). (Max/Msp). Electronic musical instruments controlled by sensors: Accelerometers, Gyroscopes.

Improv X (2010-2015) (Kyma X). Objects, Classes and TimeLines for musical improvisation

Compositional System X (2007-2015). (Shell: Composers Desktop Project, CSound, Mathematica, A.C.Toolbox).

MathComp (2013). (Mathematica) Library for Computer Assister Musical Composition

7. Teaching Positions

2014-2015. Professor of "Electronic Music" at ESTAL - Escola Superior de Tecnologias e Artes de Lisboa.

2015-2016. Professor of "Sonic Arts", Science and Technology of Sound, Lusófona University of Humanities and Technologies

2015-2016. Professor of "Cultural Studies", Science and Technology of Sound, Lusófona University of Humanities and Technologies