



CURRICULUM VITAE

name **Benjamin Lévy**
date of birth 29-05-1985 (Paris)
address 11, rue du Surmelin
75020 Paris, FRANCE
phone +33 (0)9 84 12 16 52
mobile +33 (0)6 66 17 37 45
e-mail benjamin.n.levy@wanadoo.fr
web www.benjaminNlevy.net

PROFESSIONAL EXPERIENCE

- sept. 2009 - present time* Freelance audio software Developer and computer Musician. Design, development and playing on stage of computer and electronic systems for the Arts: contemporary creations, (musical) theatre, existing pieces, pedagogical projects, improvisations. . .
- sept. 2014 - present time* R&D Engineer at AudioGaming. Work on audio plugins for sound design (cinema, video games) and on various interactive installations with mobiles & tablets, virtual/augmented reality, internet of things, social medias. . .
- march 2009 - jan. 2014* R&D Engineer at IRCAM. Full renovation and research on the musical improvisation software *OMax* in the Musical Representations team
- dec. 2006 - dec. 2007* Software Developer at Studio *Puce Muse* on a virtual modular synthesizer

EDUCATION

- nov. 2010 - dec. 2013* PhD in Computer Science applied to music, Université Pierre et Marie Curie (Paris 6), under the supervision of G. Assayag in the Musical Representations team of IRCAM. Work on the *OMax* software dedicate to musical improvisation
- sept 2008 - june 2009* Masters degree in Acoustics, Computer Science and Signal Processing applied to Music (ATIAM) at Université Pierre et Marie Curie (Paris 6) in partnership with IRCAM and Télécom ParisTech
- sept 2005 - sept 2008* Graduate School in Electrical Engineering, Computer Science and Telecommunications, ENSEA, Cergy, France. Major in Signal processing, Real time & Communications. Ranking 1st, 12th and 1st along the three years.
- sept 2003 - sept 2005* Preparation courses for engineering schools competitive exams in Lycée Condorcet, Paris
- june 2003* Baccalauréat with honours, Scientific stream; specialization in Mathematics, optional subjects: Latin & Ancient Greek
- languages* English, fluent, studied for 9 years (TOEIC : 880, 6 months in England)
German, good, studied for 11 years

MUSIC EDUCATION

- sept. 2014 - sept. 2015* Abbaye de Royaumont's programme *Prototype II*, 50 days training and research lab for 10 choreographers and 5 musicians/composers/improvizers including workshops with recognized contributors, personal research and artwork
- june - july 2014* Computer Music Design master class of the *ManiFeste* Academy of IRCAM. Two weeks intensive workshop on contemporary repertoire with electronics and performance in a public ending concert
- sept. 2010 - june 2010* Paris' National Conservatoire of Dance and Music (CNSMDP), auditing classes of Music Theory, Music Analysis and Harmony (FSMS track)
- sept 2005 - june 2010* Cergy's Regional Conservatoire of Dance and Music, graduate in Cello (amateur section), undergraduate in Music Composition. Orchestra, Chamber Music
- sept 2000 - sept 2003* Saint Ouen school of music, Cello, Contemporary Improvisation and Chamber Music courses
- 1990 - 2000* Music Theory basics courses in town school. Private lessons of Cello

INTERNSHIPS

- march 2009 - june 2009* Institut de Recherche et de Coordination Acoustique/Music (IRCAM), Paris (France). Research & development around the visualisation of sequences for an analysing & improvising software (*OMax*).
- feb 2008 - jul 2008* Interdisciplinary Centre for Scientific Research in Music, University of Leeds (England), development of a suite of audio-driven effects for the acoustic cello in Max/MSP
- june 2007 - july 2007* International Center for Art and Technologies, Prague (Czech Republic), programming real-time Music interaction with Dance (motion capture system) and electronic sensors (Arduino)
- june 2006 - sept 2006* Music studio *Puce Muse*, Rungis (France), programming of a virtual modular synthesizer in Max/MSP, on the model of a dedicated synthesizer (E-Mu 6400)

PUBLICATIONS

- may 2012* B. Lévy, G. Bloch, G. Assayag, *OMaxist Dialectics, Capturing, Visualizing and Expanding Improvisations*, in Proceedings of the NIME 2012 Conference, pp. 137-140, University of Michigan - Ann Arbor, 2012
- june 2008* B. Lévy, K. Ng, *Audio-driven Augmentations for the Cello*, in Proceedings of the 4th i-Maestro Workshop on Technology-Enhanced Music Education, pp. 49-51, University of Leeds - ICSRiM, 2008

TECHNICAL SKILLS

- systems* Apple OSX, Linux, Microsoft Windows
- programming* C/C++, C#, Max/MSP, Python, Javascript, assembly languages...
- audio* Max/MSP, Ableton Live, Pure Data, Reaper, ProTools, OpenMusic...
- scientific* Python, Matlab, Mathematica, Maple, CamL
- hardware* Arduino, RaspberryPi, various DSPs, MCUs, CPUs & SoC...
- gaming & interaction* Unity3D, OpenFrameworks, Node.js, Leap Motion, Oculus, GearVR, CardBoard
- web & layout* (X)HTML, CSS, PHP, Javascript, Node.js, WordPress, L^AT_EX 2_ε, Adobe Indesign
- office* Microsoft Word, Excel, PowerPoint (and alike : Apple iWork, LibreOffice...)

OTHER EXPERIENCES

- sept. 2008 - nov. 2009* Junior lecturer in ENSEA (school of engineering), lecture on sound synthesis, TA for practicals (Matlab, C) and school projects
- jan 2006 - jan 2007* Treasurer of the Musical Computing Association of ENSEA
Secretary of the Student Union of ENSEA
- apr 2006 - june 2006* School support (from elementary school to university) in La Cité des Sciences library, Paris, part time job (4 hours a week)
- july 2002 - aug 2002* Swimming pool technician, full time job
- sept 1998 - aug 2003* Activity leader for a very young children group (3 to 6) in a cultural structure, part time job (4 hours a week)