Vesa Norilo

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Education and degrees 17.6.2016 **D.Mus.**, *music technology*, with merit..

- 11.0.2010 D.Wids., music teemology, with men
- 19.6.2009 **M.Mus.**, traditional music, cello..
- 16.6.2006 M.Mus., music technology, thesis grade 5/5..

Professional skills

- Programming C++, Clojure, C#, Objective C, HTML/CSS, Python, LLVM, VST, AU, Keras, Tensorflow, Wwise, React, Cocoa.
 - Software Visual Studio, Xcode, Pro Tools, Studio One, LaTeX.
- Instruments Cello, wooden flute, piano.
 - Audio Recording, mixdown, mastering, production and live sound.

Languages

- Finnish native.
- English fluent.
- Swedish intermediate.
- German basic.

Current position

2017- **Post-doctoral Researcher**, University of the Arts. Project Sprezzatura, funded by the Academy of Finland [SA311535]

Work experience

2017 Yousician Ltd., Software Developer, Core Application. iOS audio, native code development, Unity performance work, code review.

- 2014-2016 University of Arts Helsinki, Lecturer, Music Technology.
 M.Mus and B.Mus thesis supervision; teaching cello, recording arts and programming. Teaching and developing the curriculum for digital signal processing
- 2014-2015 **Remedy Entertainment Ltd**, Software Developer, Quantum Break. Real-time signal processing for time-warp eects in a major commercial video game.
- 2009-2013 **Sibelius Academy**, *Software Developer*, Pitch Primer & Tempo Primer. Architect and developer for iPhone applications to aid musical practice.
- 2002-2010 Academy of Finland, Software Developer, PWGLSynth. Development of a modular sound synthesizer as anassistant to Research Fellow Mikael Laurson.

Research funding

- 2018 Maupertuis Program, Short term researcher mobility. 1000€ for mobility expenses to GRAME, Lyon
- 2017–2020 Academy of Finland, Sprezzatura. Post-doctoral researcher
 - 2015 Emil Aaltonen Foundation, Interfacing Music and Signal Processing.
 4 month grant for a research project at Griffith University, Brisbane, Australia.
 - 2014 Sibelius Academy Foundation, Interfacing Music and Signal Processing. 5400€ for the mobility expenses.
 - 2013 Sibelius Academy Development Centre, Visit to CCRMA. 2500€ for dissemination of doctoral research at Stanford University.
- 2004–2009 Academy of Finland, *CLARA*. Part-time assistant for research fellow Mikael Laurson

• Awards, prizes and honours

- 2017 **Emma nomination**, *Hereä: Veden värit*. The "Finnish Grammy" nomination for the traditional music album of the year
- 2014 **Emma nomination**, *Eva: Ensimmäiset seikkailut.* The "Finnish Grammy" nomination for the traditional music album of the year

• Other academic merits

- 1.12.2018 Invited speaker, Programmable Audio Workshop, GRAME, Lyon, France.
 - 2015- Reader, Computer Music Journal, MIT Press.
 - 2015- Reader, Conference on Sound and Music Computing.
- 2.11.2015 **Invited speaker**, *Innovative methods for teaching signal processing*, Jean Monnet University, St. Etienne, France.
- 6.5.2011 **Invited speaker**, *Linux Audio Conference*, National University of Ireland, Maynooth, Ireland.

Scientific and societal impact

34 international peer-reviewed publications, of which 4 are journal articles.

Journal articles, first author

2015 Kronos: A Declarative Metaprogramming Language for Digital Signal Processing, Computer Music Journal, MIT Press.

Journal articles, contributing author

- 2009 An Overview of PWGL, a Visual Programming Environment for Music, Computer Music Journal, MIT Press. with Laurson, Mikael; Kuuskankare, Mika
- 2008 **Parametric Piano Synthesizer**, Computer Music Journal. with Rauhala, Jukka; Laurson, Mikael; Lehtonen, Heidi-Maria; Välimäki, Vesa
- 2005 **PWGLSynth: A Visual Synthesis Language for Virtual Instrument Design and Control**, *Computer Music Journal*. with Laurson, Mikael; Kuuskankare, Mika

Conference articles

- 2016 Kronos Meta-Sequencer–From Ugens to Orchestra, Score and Beyond, Proceedings of the International Computer Music Conference.
- 2014 Exploring the Vectored Time Variant Comb Filter, Proc. of the 17th Int. Conference on Digital Audio Effects, FAU Erlangen-Nürnberg.
- 2013 Kronos Vst â the Programmable Effect Plugin, Proceedings of the International Conference on Digital Audio Effects.
- 2013 **Recent Developments in the Kronos Programming Language**, Proceedings of the International Computer Music Conference.

Other merits

- 2011-2014 Sibelius Academy University of Namibia collaboration. Research and eld recording of indigenous Namibian music with applications to Namibian music education. Funded by the Finnish Ministry for Foreign Affairs.
 - 2009 1. dan, Shorinji Kempo.Certication for a black belt in Shorinji Kempo, a Japanese martial art.