

# Luca Turchet



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Own company website: [www.elk.audio](http://www.elk.audio)

## Current positions

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JAN. 2019 – PRESENT **Assistant Professor**, Department of Information Engineering and Computer Science of University of Trento  
NOV. 2018 – PRESENT **Honorary Senior Research Associate**, Institute of Education of University College London  
OCT. 2014 – PRESENT **Co-founder and Advisor** at Elk (former MIND Music Labs)

## Research interests

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Internet of Musical Things, smart musical instruments, real-time audio embedded systems, new interfaces for musical expression, human-computer interaction, sonic interaction design, haptic technology, multimodal perception, sonification, virtual reality, affective computing

## Education

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AUG. 2013 – APR. 2015 **Master of Arts in Electronic Music**

- Institution: Royal College of Music in Stockholm
- Final mark: Pass (according to the institution's policy, there is not a final grade)

FEB. 2010 – JAN. 2013 **Ph.D. in Media Technology**

- Institution: Aalborg University Copenhagen, Dept. of Media Technology
- Thesis: "Audio-Haptic Feedback for Natural Interactive Walking: Interfaces, Simulations & Perceptual Phenomena"

DEC. 2004 – SEP. 2006 **Master of Science in Intelligent and Multimedia Systems**

- Institution: University of Verona, Dept. of Computer Science
- Thesis: "Granular Synthesis & ReacTable"
- Final mark: 110 e lode (Magna cum laude)

SEP. 2001 – DEC. 2004 **Bachelor of Science in Multimedia Information Technology**

- Institution: University of Verona, Dept. of Computer Science
- Thesis: "Multimodal Display of surface textures"
- Final mark: 110 e lode (Magna cum laude)

OCT. 2006 – MAR. 2009 **Master of Arts in Composition** (Specialisation in Electronic Music)

- Institution: Conservatory of Music of Verona
- Final mark: 110 e lode (Magna cum laude)

SEP. 1999 – JUNE 2007 **Master of Arts in Classical Guitar**

- Institution: Conservatory of Music of Verona
- Final mark: 10 e lode (Magna cum laude)

SEP. 1996 – JULY 2001 **Diploma of Secondary School focusing on Humanities**

- Institution: Liceo Classico Scipione Maffei of Verona

## Academic positions

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JAN. 2019 – PRESENT **Assistant Professor** at University of Trento, Dept. of Information Engineering and Computer Science  
NOV. 2018 – PRESENT **Honorary Senior Research Associate** at University College London, Institute of Education  
MAY 2017 – JAN. 2018 **Marie-Curie Postdoctoral Research Fellow** at Queen Mary University of London, Center for Digital Music  
NOV. 2016 – FEB. 2017 **Research Engineer** at KTH Royal Institute of Technology, Dept. of Network and Systems Engineering  
JUNE 2016 – AUG. 2016 **Associate Research Scientist** at Columbia University, Dept. of Mechanical Engineering

FEB. 2013 – JAN. 2016	<b>Independent post-doc researcher</b> at Aalborg University Copenhagen, Dept. of Media Technology, funded by the Danish Research Council
FEB. 2010 – JAN. 2013	<b>PhD student</b> at Aalborg University Copenhagen, Dept. of Media Technology
MAR. 2009 – JAN. 2010	<b>Research assistant</b> at Aalborg University Copenhagen, Dept. of Media Technology

## Visiting research periods

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JUNE 2018	McGill University, Centre for Interdisciplinary Research in Music Media and Technology
SEP. 2015 – MAY 2016	KTH Royal Institute of Technology, Dept. of Automatic Control
JUNE 2015 – JULY 2015	Queen Mary University of London, Center for Digital Music
APR. 2015 – MAY 2015	KTH Royal Institute of Technology, Dept. of Automatic Control
JAN. 2015 – MAR. 2015	University of Verona, Dept. of Neurological and Movement Sciences
SEP. 2014 – DEC. 2014	KTH Royal Institute of Technology, Dept. of Automatic Control
JUNE 2014 – AUG. 2014	University of Verona, Dept. of Neurological and Movement Sciences
SEP. 2013 – MAY 2014	KTH Royal Institute of Technology, Dept. of Media Technology and Interaction Design
JUNE 2013 – AUG. 2013	University of Verona, Dept. of Neurological and Movement Sciences
SEP. 2012 – DEC. 2012	University of Padova, Dept. of Information Engineering
APR. 2012 – JULY 2012	KTH Royal Institute of Technology, Dept. of Speech, Music and Hearing
JULY 2011 – AUG. 2011	University of Verona, Dept. of Neurological and Movement Sciences
MAY 2010 – JUNE 2010	University of Rennes, Institut National de Recherche en Informatique et en Automatique
SEP. 2008 – FEB. 2009	Cork Institute of Technology/Cork School of Music
APR. 2006 – AUG. 2006	Pompeu Fabra University (Barcelona), Music Technology Group

## Grants

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### SCIENTIFIC GRANTS

APR. 2020	EIT Digital grant for co-financing one industrial PhD student, <b>PI</b> , €40.000
APR. 2020	Grant of Fondazione Valorizzazione Ricerca Trentina for the project “Computer-aided lung ultrasound imaging for the management of patients affected by COVID-19”, <b>Co-I</b> , €80.000
DEC. 2019	Starting Grant Young Researchers of University of Trento, <b>PI</b> , €10.000
DEC. 2019	<b>1-year Innovation grant</b> from EIT Digital - European Institute of Technology, <b>PI</b> , €137.000
APR. 2019 – JUNE 2019	Grant of Fondazione C.M. Lericci/Italian institute of Culture in Stockholm for the research project “The Smart Flute”, <b>PI</b> , €2.500
JAN. 2019	<b>1-year Leadership Fellowship</b> of the Arts and Humanities Research Council of United Kingdom (declined for position at the University of Trento), <b>PI</b> , €180.000
NOV. 2018	“Micro-grant” of Marie Curie Alumni Association, €1.000
SEP. 2018	Grant for open access fee from Queen Mary University Library, €1.000
JULY 2018	“Micro-grant” of Marie Curie Alumni Association, €1.000
JUNE 2017 – DEC. 2017	Grant of Fondazione C.M. Lericci/Italian institute of Culture in Stockholm for the research project “Augmentation of the Neapolitan mandolin”, <b>PI</b> , €3.000
FEB. 2017	<b>2-year EU Marie Curie Individual Fellowship</b> for the project “Towards the Internet of Musical Things”, <b>PI</b> , €186.000
JUNE 2014 – SEP. 2014	Grant of Fondazione C.M. Lericci/Italian institute of Culture in Stockholm for the research project “Augmentation of Traditional Italian Instruments”, <b>PI</b> , €3.700
FEB. 2013	<b>3-year grant of the Danish Research Council for Independent Research</b> for the project “Audio-haptic walking simulations for virtual reality, entertainment and rehabilitation applications”, <b>PI</b> , €475.000
JULY 2012	Grant of Otto Mønsted foundation for the research project “Footstep sounds localization”, €2.500
MAY 2010 – JUNE 2010	EU Sonic Interaction Design SID-COST grant for the research project “Footstep sounds in desktop VR”, €2.500
APR. 2006 – AUG. 2006	Erasmus grant for the research period of 5 months at Music Technology Group of Pompeu Fabra University on the project “Granular Synthesis and ReacTable”, €1.500

### ENTREPRENEURIAL GRANTS

DEC. 2019	1-year Innovation grant from EIT Digital - European Institute of Technology, for Elk €280.000
OCT. 2018	Innovation grant “Audience of the Future: Design Foundations Competition” of the Industrial Strategy Challenge Fund, UK Research and Innovation ( <b>Co-Investigator</b> ), €65.000
NOV. 2017	“Innovative startups – Phase II 2017” of Swedish Innovation Agency VINNOVA for MIND Music Labs, €90.000
APR. 2017	“RunnerUp 2017” grant of Swedish Innovation Agency VINNOVA for MIND Music Labs, €50.000
FEB. 2017	“Innovative startups – Phase I 2017” of Swedish Innovation Agency VINNOVA for MIND Music Labs, €30.000

- DEC. 2014 “VFT-1” grant of KTH Innovation for MIND Music Labs, €5.500  
 DEC. 2014 “ALMI grant” of Swedish Innovation Agency ALMI for MIND Music Labs, €2.000  
 SEP. 2014 “VFT-0” grant of KTH Innovation for MIND Music Labs

**ARTISTIC GRANTS**

- APR. 2017 “Movin’Up” Grant of Fondazione Giovani Artisti Italiani for the mobility project “Hypermandolin@NYCEMF”, €1.000  
 SEP. 2008 – FEB. 2009 **Grant of Italian Minister of Foreign Affairs** for the music residency period of 6 months at Cork Institute of Technology/Cork School of Music, €17.500

**OTHER GRANTS**

- SEP. 2015 Wenner-Gren Foundation scholarship for 2 years subsidy at the Wenner-Gren Center Guest Researchers’ Apartments, €10.000  
 FEB. 2004 With cultural association Novallys, grant of Provincia di Verona for the project “Danze e Musiche tradizionali Europee”, €600  
 AUG. 2004 University of Verona grant for the 1 month course of English at the Nottingham Trent University, €1.000

**Awards****SCIENTIFIC AWARDS**

- MAY. 2019 National Scientific Qualification for associate professor positions, awarded by the Italian Ministry for Education, University and Research  
 NOV. 2018 Best demo and best poster award at the IEEE Open Innovations Association FRUCT 2018  
 DEC. 2013 Best poster award at the Interactive Sonification Workshop 2013  
 OCT. 2010 Top 10% paper award at the IEEE International Workshop on Multimedia Signal Processing 2010  
 MAR. 2010 Selected among 10 best papers at IEEE VR Conference 2010 and invited to submit an extended journal paper for IEEE Transactions on Visualization and Computer Graphics

**ENTREPRENEURIAL****AWARDS**

- JAN. 2019 With MIND Music Labs, **Best New Technology Award** at National Association of Music Merchants Trade Show 2019 (Los Angeles) awarded by Sonicstate.com  
 NOV. 2017 – Nov. 2019 With MIND Music Labs, **6 times** awarded of the **Seal of Excellence** from the European Commission (SME Instrument Phase 2)  
 JUNE 2017 Graduated as **STING Alumnus** for the 18-month incubator programme of Stockholm Innovation and Growth  
 APR. 2017 With MIND Music Labs, Seal of Excellence from the European Commission (SME Instrument Phase 1 - Open Disruptive Scheme)  
 OCT. 2016 With MIND Music Labs, **winner of Music Tech Summit** (San Francisco)  
 AUG. 2016 With MIND Music Labs, finalist of Startup Competition at BIME Startup Summit (Bilbao)  
 JUNE 2016 With MIND Music Labs, **winner of Midemlab 2016 Music Startup Competition**  
 JUNE 2016 With MIND Music Labs, awarded of the **first prize at Midemlab 2016 international pitching competition in the Hardware/Internet of Things category**  
 JUNE 2016 With MIND Music Labs, awarded of the second prize at Sonar+D Startup Garden Competition  
 JUNE 2016 With MIND Music Labs, awarded of the third prize at Stockholm TechCrunch event  
 NOV. 2014 Course for entrepreneurs “STING’s start-up ICT program” awarded by Stockholm Innovation & Growth

**ARTISTIC AWARDS**

- APR. 2018 Selected for the music programme of International Conference on New Interfaces for Musical Expression 2018  
 SEP. 2017 Selected for the music programme of Audio Mostly Conference 2017  
 MAR. 2017 Selected for the music programme of New York City Electronic Music Festival 2017  
 MAR. 2007 – JUNE 2007 First prizes as classical solo guitarist at Val Tidone International Music Competition (Piacenza), at International Competition of Musical Interpretation “Cogololetto 2007” (Genova), and at Concorso Musicale per Giovani Talenti (Rivarolo Canavese)  
 SEP. 2007 Prize for the best graduated in classical guitar at Conservatory of Music of Verona

## Non-academic work experience

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JAN 2019 – PRESENT	<b>Advisor</b> at Elk (former MIND Music Labs)
OCT. 2014 – JAN 2019	<b>Head of Sound and Interaction Design</b> at Elk (former MIND Music Labs). Main activities: project management, product management, sound design, interaction design, software development
OCT. 2014	<b>Co-funder</b> of the company Elk (former MIND Music Labs)
NOV. 2013 – SEP. 2014	Consultant for Benincaso Guitars AB. Main activities: sound design
OCT. 2007 – SEP. 2008	IT Consultant for Volkswagen Group Italia. Main activities: Business Intelligence, SAS and Java programming, datawarehouse and server administration
OCT. 2006 – SEP. 2007	Freelance programmer. Main activities: Web design, JSP and Servlet
MAR. 2004 – JUNE 2004,	Trainee at Computer Music Dept. of Conservatory of Music of Verona. Main activities: C++
JAN. 2006 – APR. 2006	and Processing programming

## Involvement in national and international research projects

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MAY 2017 – JAN. 2019	“Towards the Internet of Musical Things – An ecosystem of interoperable devices connecting performers and audiences”, Marie-Curie Individual Fellowship of the European Union’s Horizon 2020 research and innovation programme, under grant agreement 749561. Fellow (de facto principal investigator)
MAY 2017 – JAN. 2019	“Audio Commons”, project funded by the European Union’s Horizon 2020 research and innovation programme
SEP. 2016 – SEP. 2018	“Tactile cyber-physical networks”, SRA ICT TNG Swedish Research Council
OCT. 2015 – OCT. 2016	“Joint Project”, University of Verona, University Hospital of Verona, and Cochlear Ltd
FEB. 2013 – JAN. 2016	“Audio-haptic walking simulations for virtual reality, entertainment and rehabilitation applications”, Danish Council for Independent Research. Principal Investigator.
MAR. 2009 – OCT. 2012	“Natural Interactive Walking”, European Union’s Seventh Framework Programme under FET-Open grant agreement 222107

## Commission of trust

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MAR. 2019 – PRESENT	<b>Member</b> of the Teaching Board for the <b>ICT Doctoral School</b> at DISI – University of Trento
FEB. 2019 – PRESENT	<b>Delegate</b> for the activities of internships and relationship with companies at DISI –University of Trento
JAN. 2019 – PRESENT	<b>Coordinator</b> for Trento node of the <b>EIT Digital Master School in “Human-Computer Interaction and Design”</b> - European Institute of Innovation and Technology
GRANT PROPOSAL REVIEWER	Grant proposal reviewer for the Israel Science Foundation
PC MEMBER	<ul style="list-style-type: none"> <li>• International Conference on New Interfaces for Musical Expression 2018, 2019, 2020</li> <li>• Audio Mostly 2017, 2018, 2019</li> <li>• International Conference on Digital Audio Effects 2018, 2019</li> <li>• Sound and Music Computing Conference 2018, 2019, 2020</li> <li>• IEEE Conference of Open Innovations Association FRUCT 2018, 2019, 2020</li> <li>• International Symposium on Computer Music Multidisciplinary Research 2017</li> <li>• Workshop on Ubiquitous Music 2018, 2019, 2020</li> </ul>
PANELIST	<ul style="list-style-type: none"> <li>• International Workshop on Multilayer Music Representation and Processing 2019</li> </ul>
SESSION CHAIR	<ul style="list-style-type: none"> <li>• International Symposium on Computer Music Multidisciplinary Research 2017</li> </ul>
ORGANIZING ACTIVITIES	<ul style="list-style-type: none"> <li>• Audio and Music Hackaton, Center for Digital Music of the Queen Mary University of London 2017</li> <li>• Haptic-Audio Interaction Design Conference 2010, Aalborg University Copenhagen 2010</li> </ul>

## Teaching experience

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- JAN 2019 – PRESENT      At University of Trento:
- Full module “Human-Computer Interaction” (undergraduate and graduate), 48 hours, 6 ECTS
  - Full module “Multisensory Interactive Systems” (graduate), 48 hours, 6 ECTS
  - Guest Lecturer and examiner for module “ICT Innovation” (graduate), 20 hours
  - Supervision of 11 bachelor students and 2 master students
- MAY 2017 – PRESENT      At Queen Mary University of London:
- Guest lecturer for the course of “Sound Recording and Production Techniques”
  - Co-supervision of 1 PhD student
- DEC. 2014 – APR. 2015    At KTH Royal Institute of Technology:
- Guest lecturer for the course of “Internet of Things”
  - Co-supervision (de facto main supervisor) of 2 Erasmus Placement students
  - Co-supervision (de facto main supervisor) of 1 master student
  - Supervisor of 1 bachelor student for the Individual Course in Media Technology
  - Supervisor of 1 master student for the Individual Course in Media Technology
- FEB. 2010 – MAR. 2012    At Aalborg University Copenhagen (729 hours):
- Frontal lessons for the courses “Audio Design”, “Audio-Visual Production”, “Procedural Programming”, “Sound and Music Computing” and “L<sup>A</sup>T<sub>E</sub>X typesetting program” (about 50 students per course)
  - Laboratory supervision for the courses “Sound and Music Computing”, “C++ programming” and “Linear algebra”
  - Supervision of 10 projects of groups of 3-6 undergraduate students
  - Examiner for all courses mentioned above and for courses “Image Processing”, “Statistics”, and “Problem-based learning”

## Invited talks

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- 14<sup>TH</sup> DEC. 2018      **Invited seminar** on “The Internet of Musical Things” at the Mixed Reality Lab of University of Nottingham (United Kingdom)
- 14<sup>TH</sup> NOV. 2018      **Keynote speaker** at IEEE FRUCT/IEEE International Workshop on Semantic Audio and the Internet of Things, Advanced Research Center on Electronic System of University of Bologna (Bologna, Italy)
- 12<sup>TH</sup> JUNE 2018      **Invited seminar** on “Multimodal locomotion interfaces” at the Dept. of Mechanical Engineering, McGill University (Montreal, Canada)
- 11<sup>TH</sup> JUNE 2018      **Invited seminar** on “Smart Musical Instruments” at the Centre for Interdisciplinary Research in Music Media and Technology, McGill University (Montreal, Canada)
- 2<sup>ND</sup> MAY 2018      **Invited talk** “Towards the Internet of Musical Things” at Re:publica media convention (Berlin, Germany)
- 14<sup>TH</sup> JUNE 2017      **Invited seminar** on “Smart Instruments and the Internet of Musical Things” at Center for Digital Music, Queen Mary University of London
- 16<sup>TH</sup> MAY 2017      **Invited lecture** on “Smart Instruments” at Dept. of Network and Systems Engineering, KTH Royal Institute of Technology
- 20<sup>TH</sup> JULY 2016      **Invited radio Interview** about Sensus Smart Guitar by MIND Music Labs at GearGuysRadio (New Jersey, USA)
- 1<sup>ST</sup> JUNE 2016      **Invited seminar** on “Multimodal locomotion interfaces” at Dept. of Mechanical Engineering of Columbia University (New York, USA)
- 22<sup>ND</sup> JAN. 2013      **Invited seminar** on “Multimodal locomotion interfaces” at Dept. of Engineering of University of Modena and Reggio (Italy)

## Invited demos (at international events)

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- 16<sup>TH</sup> NOV. 2018      Demo of a “semantically-enriched Internet of Musical Things architecture” at the IEEE Open Innovations Association FRUCT 2018 (Bologna, Italy)
- 4<sup>TH</sup> JUNE 2018      Demo of “Smart Mandolin–Musical Haptic Wearables interactions” at the International Conference on New Interfaces for Musical Expression (Blacksburg, USA)

8TH MARCH 2018	Demo of “Embodied Interactions with E-Textiles and the Internet of Sounds for Performing Arts” at the International Conference on Tangible, Embedded, and Embodied Interaction (Stockholm, Sweden)
3RD DEC. 2015	Demo of the Sensus Smart Guitar at the EIT Digital Demo Day - European Institute of Innovation and Technology (Stockholm, Sweden)

## Realizations

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### HARDWARE

- Smart Guitar (with MIND Music Labs)
- Sensor technology for Hyper-Hurdy-Gurdy, Hyper-Zampogna, Hyper-Mandolin, Smart Cajón, Smart Mandolin
- 4 locomotion interfaces: Audio-Tactile Shoes, Smart Shoes, Augmented Floor, Mocap-Based System for foot-floor interactions
- 2 wearables: armband-based wearable, e-textiles-based jacket

### SOFTWARE

- Audio-Haptic Footstep Synthesis Engine (for Max/MSP and Pure Data)
- Various app for mobile phones related to the Smart Shoes and all the smart musical instruments
- Various mockups of apps for mobile phones related to the Smart Guitar (with MIND Music Labs)
- Max/MSP and Pure Data effect libraries for Hyper-Hurdy-Gurdy, Hyper-Zampogna, Hyper-Mandolin, Smart Cajón, Smart Mandolin
- 4 Max for Live devices for the communication between the Sensus Smart Guitar and Ableton Live

## Reviewing activities

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### GRANT PROPOSALS

- Israel Science Foundation (1 proposal)

### JOURNALS

- IEEE Transactions on Haptics (1 paper)
- Personal and Ubiquitous Computing (2 papers)
- Frontiers in Psychology (1 paper)
- IEEE/ACM Transactions on Audio, Speech and Language Processing (1 paper)
- Journal of the Audio Engineering Society (1 paper)
- IEEE Transactions on Visualization and Computer Graphics (1 paper)
- Applied Acoustics (1 paper)

### CONFERENCES

- International Conference on New Interfaces for Musical Expression 2018 (8 papers), 2019 (5 papers), 2020 (7 papers)
- Audio Mostly Conference 2017 (3 papers and 2 music submissions), 2018 (5 papers), 2019 (2 papers)
- Sound and Music Computing Conference 2012 (3 papers), 2013 (2 papers), 2018 (2 papers), 2019 (2 papers), 2020 (2 papers)
- UbiMus Workshop 2018 (2 papers), 2019 (1 paper), 2020 (1 paper)
- Digital Audio Effects Conference 2018 (2 papers)
- IEEE World Haptics Conference 2019 (1 paper)
- ACM International Conference on Human-Computer Interaction CHI 2019 (2 papers)
- Creativity & Cognition 2019 (1 paper)
- IEEE Conference of Open Innovations Association FRUCT 2018 (3 papers), 2019 (1 paper), 2020 (2 papers)
- Eurohaptics 2018 (2 papers)
- IEEE International Conference on Semantic Computing 2018 (1 paper)
- International Symposium on Computer Music Multidisciplinary Research 2017 (2 papers)
- IEEE Virtual Reality Conference 2016 (1 paper)
- Colloquio di Informatica Musicale 2014 (1 paper)

## Computer skills and competences

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OPERATING SYSTEMS	Mac, Linux, Windows, ELK music operating system
PROGRAMMING EXPERIENCES	Python, C, C++, Java, Max/MSP and Pure Data (and their native code for externals), JUCE framework, MATLAB, Octave, Processing, CSound, R statistical software, SAS, HTML, PHP, CSS, XML, Json, SQL, Visual Basic script
HARDWARE	Embedded Systems, Sensors Technology, Motion Capture System Technology, Head Mounted Displays Technology (e.g., Oculus Rift)
AUDIO, VIDEO AND GRAPHICS APPLICATIONS	Audition, Logic, Ableton Live, Audacity, Polyphone Soundfont Editor, Sonic Visualizer, Gimp, Photoshop, Premiere
SERVER	Apache, Tomcat, IIS

## Artistic skills and competences

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MUSICIAN	Classical and acoustic guitar, mandolin, percussions, hurdy-gurdy and bagpipe
COMPOSER	Classical contemporary music, folk music, computer music and live electronics
DANCER	Traditional European dances
BACKGROUND ACTOR	Played various extra roles in the lyric operas Carmen, Aida, Turandot, Madama Butterfly, Nabucco, and Così fan tutte, for four lyric seasons (2002–2005) both at the amphitheater Arena and at the theatre Filarmonico of Verona. Directed by various worldwide famous directors including Franco Zeffirelli.
WRITER	Author of the book “Folk Soul”, ISBN 978-1-291-60240-1 (available in English, Italian and French)
OTHER	President and artistic director of the cultural association Novallys, from September 2005 to September 2008

## Artistic production and performances (selected)

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COMPOSITIONS	
2019	“Skeppis” – fantasy on traditional Swedish themes, for solo Smart Mandolin
2018	“Dialogues with Folk-Rnn”, for solo Smart Mandolin
2017	“Omaggio a Stoccolma”, for solo Hyper-Mandolin
2015	“The Integrated Consciousness” – for Hyper-Hurdy-Gurdy, chamber orchestra and live electronics
2014	“Incantesimo” – for Hyper-Hurdy-Gurdy and live electronics
2009	“The love which moves the sun and the other stars” – for flute, soprano, video and live electronics
2008	“2008 TIBET” – for video and live electronics
PERFORMANCES	
11 MAY 2019	Smart Mandolin soloist performance at TED X Trento Salonen, University of Trento (Italy). Video: <a href="https://www.youtube.com/watch?v=kbJ89_wOmAY">https://www.youtube.com/watch?v=kbJ89_wOmAY</a>
6 JUNE 2018	Smart Mandolin soloist performance at International Conference on New Interfaces for Musical Expression 2018 (Blacksbourg, Virginia, USA). Video: <a href="https://www.youtube.com/watch?v=VmJdLqejb-E">https://www.youtube.com/watch?v=VmJdLqejb-E</a>
20 NOV. 2017	Smart Mandolin soloist performance at Being Human Festival 2017 (London, United Kingdom). Video: <a href="http://www.youtube.com/watch?v=1XOVajLpfYY">www.youtube.com/watch?v=1XOVajLpfYY</a>
20 SEP. 2017	Hyper Mandolin soloist performance at International Audio Mostly Conference 2017 (London, United Kingdom). Video: <a href="http://www.youtube.com/watch?v=rRJBTQziBEA">www.youtube.com/watch?v=rRJBTQziBEA</a>
29 APR. 2017	Hyper Mandolin soloist performance at Kulturnatt Stockholm 2017 (Stockholm, Sweden). Video: <a href="http://www.youtube.com/watch?v=ecCooDhatj4">www.youtube.com/watch?v=ecCooDhatj4</a>
9 DEC. 2015	Live electronics performance at “LJUDBIO II - Electronic Music Festival”, Slottsbiografen (Uppsala, Sweden)
22 JULY 2015	Hyper Hurdy-Gurdy soloist performance at Performance Lab of the Center For Digital Music della Queen Mary University of London (London, United Kingdom)
5 APR. 2015	Performance for Hyper Hurdy Gurdy, chamber orchestra and live electronics, at “LjudOljud 2015” contemporary music festival, Auditorium concert venue (Stockholm, Sweden)
11 APR. 2014	Hyper Hurdy-Gurdy soloist performance at “LjudOljud 2014” contemporary music festival, Auditorium concert venue (Stockholm, Sweden)

16 MAY 2009	Performance for flute, soprano and live electronics at Cork Institute of Technology/School of Music a Cork (Cork, Ireland)
18 FEB 2009	Performance for flute, soprano and live electronics at Cork Institute of Technology/School of Music a Cork (Cork, Ireland). Video: <a href="http://www.youtube.com/watch?v=AXrZnODhzX4">www.youtube.com/watch?v=AXrZnODhzX4</a>
RECORDINGS	
2012	Guest musician in the album Melodeonía of Giuliano Gabriele & Ensemble. <a href="http://www.giulianogabriele.it">www.giulianogabriele.it</a>

## Personal skills and competences

TONGUES	Italian (mother tongue), English (fluent), Spanish (fluent), French (good), Swedish (basic), Danish (basic)
MANAGEMENT	Project management, product management, financial management, planning, human resources coordination, leadership, independent thinking

## Third mission

27TH SEP. 2019	Demo at European Researchers' Night at Trento Science Museum (Trento, Italy)
21ST SEP. 2019	Demo at Trento Smart City Week (Trento, Italy)
25TH FEB. 2019	Demo at ICT Days of University of Trento (Trento, Italy)
28TH SEP. 2018	Demo at European Researchers' Night at Natural History Museum (London, UK)

## Publications

### EDITORIAL ACTIVITIES AND BOOKS

- [E1] V. Lazzarini, D. Keller, N. Otero, and **L. Turchet**. "Ubiquitous Music Ecologies", Routledge, 2020 (to appear).

### JOURNAL PAPERS

- [J1] **L. Turchet**, T. West, M.M. Wanderley. *Touching the audience: Musical Haptic Wearables for augmented and participatory live music performances*. Personal and Ubiquitous Computing Journal, 2020 (In press)
- [J2] **L. Turchet**, F. Antoniazzi, F. Viola, F. Giunchiglia, and G. Fazekas. *The Internet of Musical Things Ontology*. Journal of Web Semantics, 2020 (In press)
- [J3] **L. Turchet**, J. Pauwels, C. Fischione, and G. Fazekas. *Cloud-Smart Musical Instrument Interactions: Querying a Large Music Collection with a Smart Guitar*. ACM Transactions on the Internet of Things, 2020 (In press)
- [J4] M. Mannone, F. Favali, B. Di Donato, and **L. Turchet**. *Quantum GestART: Identifying and Applying Correlations between Mathematics, Art, and Perceptual Organization*. Journal of Mathematics and Music, 2020 (In press).
- [J5] **L. Turchet** and M. Barthet. *An ubiquitous smart guitar system for collaborative musical practice*. Journal of New Music Research, 48(4), 352–365, 2019.
- [J6] **L. Turchet** and M. Barthet. *Co-design of Musical Haptic Wearables for electronic music performer's communication*. IEEE Transactions on Human-Machine Systems, 49(2), 183–193, 2019.
- [J7] **L. Turchet**. *Smart Musical Instruments: vision, design principles, and future directions*. IEEE Access, 7, 8944–8963, 2019.
- [J8] **L. Turchet**, C. Fischione, G. Essl, D. Keller, and M. Barthet. *Internet of Musical Things: Vision and Challenges*. IEEE Access, 6, 61994–62017, 2018.
- [J9] **L. Turchet**, A. McPherson, and M. Barthet. *Real-time hit detection in a Smart Cajón*. Frontiers in ICT, 5:16, 2018.
- [J10] **L. Turchet**, A. McPherson, and M. Barthet. *Co-design of a Smart Cajón*. Journal of the Audio Engineering Society, 66(4), 1–11, 2018.
- [J11] **L. Turchet**, I. Camponogara, F. Nardello, P. Zamparo, and P. Cesari. *Interactive footsteps sounds modulate the sense of effort without affecting the kinematics and metabolic parameters during treadmill-walking*. Applied Acoustics, 129, 379–385, 2018.
- [J12] **L. Turchet**, D. Zanotto, A. Rodà, S. Minto and S. K. Agrawal. *Emotion rendering in plantar vibro-tactile simulations of imagined walking styles*. IEEE Transactions on Affective Computing, 8(3), 340–354, 2017.
- [J13] **L. Turchet** and A. Rodà. *Emotion rendering in auditory simulations of imagined walking styles*. IEEE Transactions on Affective Computing, 8(2), 241–253, 2017.
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## SUMMARY OF BIBLIOMETRIC INDICATORS

N. publications	80
N. books	1
N. journal articles	27
N. book chapters	12
N. conference articles	39
N. first-authored articles	54 (67%)
N. last-authored articles	8
N. first + last-authored articles	61 (76%)
N. awarded articles	4
N. international patents	2
N. citations on Scopus	469
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