

Luca Turchet



Date and place of birth: 28/10/1982 in Verona (Italy)
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Current positions

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

New interfaces for musical expression, human-computer interaction, Internet of Things, real-time audio embedded systems, sonic interaction design, haptic technology, multimodal perception, sonification, extended reality, affective computing, semantic audio

Education

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

JAN. 2019 – PRESENT **Assistant Professor** at University of Trento, Dept. of Information Engineering and Computer Science (tenured track)
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	Independent post-doc researcher at Aalborg University Copenhagen, Dept. of Media Technology, funded by the Danish Research Council
FEB. 2010 – JAN. 2013	PhD student at Aalborg University Copenhagen, Dept. of Media Technology
MAR. 2009 – JAN. 2010	Research assistant at Aalborg University Copenhagen, Dept. of Media Technology

Visiting research periods

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

SCIENTIFIC GRANTS

OCT. 2020	Grant of University of Trento for “Strategic projects for COVID-19”, PI , €35.000
SEP. 2020	2-year grant of European Space Agency ARTES IAP 5G for L’ART Cultural Heritage, for the project “Next generation of augmented reality tourism: enhancing cultural heritage preservation”, PI , €100.000
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”, Co-I , €80.000
DEC. 2019	Starting Grant Young Researchers of University of Trento, PI , €10.000
DEC. 2019	1-year Innovation grant from EIT Digital - European Institute of Technology, PI , €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”, PI , €2.500
JAN. 2019	1-year Leadership Fellowship of the Arts and Humanities Research Council of United Kingdom (declined for position at the University of Trento), PI , €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”, PI , €3.000
FEB. 2017	2-year EU Marie Curie Individual Fellowship for the project “Towards the Internet of Musical Things”, PI , €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”, PI , €3.700
FEB. 2013	3-year grant of the Danish Research Council for Independent Research for the project “Audio-haptic walking simulations for virtual reality, entertainment and rehabilitation applications”, PI , €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

NOV. 2017	“Finding new ways in the time of a crisis” of Swedish Innovation Agency VINNOVA for Elk, €70.000
MAY. 2020	EIT Digital grant for financing one industrial PhD student at company GTEC, PI , €75.000
APR. 2020	EIT Digital grant for co-financing one industrial PhD student at company Elk, PI , €40.000
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 (Co-I), €65.000
NOV. 2017	“Innovative startups – Phase II 2017” of Swedish Innovation Agency VINNOVA for Elk, €90.000
APR. 2017	“RunnerUp 2017” grant of Swedish Innovation Agency VINNOVA for Elk, €50.000
FEB. 2017	“Innovative startups – Phase I 2017” of Swedish Innovation Agency VINNOVA for Elk, €30.000
DEC. 2014	“VFT-1” grant of KTH Innovation for Elk, €5.500
DEC. 2014	“ALMI grant” of Swedish Innovation Agency ALMI for Elk, €2.000
SEP. 2014	“VFT-0” grant of KTH Innovation for Elk

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 1-month English course at 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 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 Elk, Best New Technology Award at National Association of Music Merchants Trade Show 2019 (Los Angeles) awarded by Sonicstate.com
NOV. 2017 – NOV. 2019	With Elk, 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 Elk, Seal of Excellence from the European Commission (SME Instrument Phase 1 - Open Disruptive Scheme)
OCT. 2016	With Elk, winner of Music Tech Summit (San Francisco)
AUG. 2016	With Elk, finalist of Startup Competition at BIME Startup Summit (Bilbao)
JUNE 2016	With Elk, winner of Midemlab 2016 Music Startup Competition
JUNE 2016	With Elk, awarded of the first prize at Midemlab 2016 international pitching competition in the Hardware/Internet of Things category
JUNE 2016	With Elk, awarded of the second prize at Sonar+D Startup Garden Competition
JUNE 2016	With Elk, 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 “Cogoleto 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

Involvement in national and international research projects as key researcher

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
MAR. 2009 – OCT. 2012	“Natural Interactive Walking”, European Union’s Seventh Framework Programme under FET-Open grant agreement 222107

Non-academic work experience

JAN 2019 – PRESENT	Advisor at Elk
OCT. 2014 – JAN 2019	Head of Sound and Interaction Design at Elk. Main activities: project management, product management, sound design, interaction design, software development
OCT. 2014	Co-funder 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

Commission of trust

MAR. 2019 – PRESENT	Member of the Teaching Board for the ICT Doctoral School at DISI – University of Trento
FEB. 2019 – PRESENT	Delegate for the activities of internships and relationship with companies at DISI –University of Trento
JAN. 2019 – PRESENT	Coordinator for Trento node of the EIT Digital Master School in “Human-Computer Interaction and Design” - European Institute of Innovation and Technology
JAN. 2019 – PRESENT	Coordinator of the teaching and research “Multisensory Interaction Laboratories” at DISI – University of Trento
ORGANIZATION ACTIVITIES	<ul style="list-style-type: none"> • Chair of the Ubiquitous Music Workshop (University of Trento, 2023 - planned) • Chair of the ACM Audio Mostly Conference (University of Trento, 2021) • Chair of the 27th IEEE FRUCT Conference (University of Trento, 2020) • Chair of the 1st International Workshop on the Internet of Sounds (University of Trento, 2020) • Staff member in the organization of the London Audio and Music Hackaton (Center for Digital Music of the Queen Mary University of London, 2017) • Staff member in the organization of the Haptic-Audio Interaction Design Conference 2010 (Aalborg University Copenhagen, 2010)
GRANT PROPOSAL RE-VIEWER	<ul style="list-style-type: none"> • Research Council of Norway (2020–present) • EU Marie Skłodowska-Curie Individual Fellowships (2020–present) • Israel Science Foundation (2020–present)
PC MEMBER	<ul style="list-style-type: none"> • International Conference on New Interfaces for Musical Expression 2018, 2019, 2020 • ACM Audio Mostly International Conference 2017, 2018, 2019 • International Conference on Digital Audio Effects 2018, 2019, 2020 • Sound and Music Computing Conference 2018, 2019, 2020 • IEEE Conference of Open Innovations Association FRUCT 2018, 2019, 2020 • International Symposium on Computer Music Multidisciplinary Research 2017 • Workshop on Ubiquitous Music 2018, 2019, 2020
PANELIST	<ul style="list-style-type: none"> • Online meeting “Physically Distant #3: the network, the pandemic, and telematic performance”, October 2020 • International Workshop on Multilayer Music Representation and Processing 2019
SESSION CHAIR	<ul style="list-style-type: none"> • International Audio Mostly Conference 2020 • International Symposium on Computer Music Multidisciplinary Research 2017

Teaching experience

- 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 PhD, master and bachelor students, and research assistants
 - Member of the commission assessing the qualifying exams of PhD 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 and 1 master student for the Individual Course in Media Technology
- FEB. 2010 – MAR. 2012 At Aalborg University Copenhagen (teaching assistant for a total of 729 hours):
- Frontal lessons for the courses “Audio Design”, “Audio-Visual Production”, “Procedural Programming”, “Sound and Music Computing” and “L^AT_EX 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

- 12TH JUNE 2020 **Invited online interview** on “The Internet of Musical Things” at IoT Radar
- 14TH DEC. 2018 **Invited seminar** on “The Internet of Musical Things” at the Mixed Reality Lab of University of Nottingham (United Kingdom)
- 14TH 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)
- 12TH JUNE 2018 **Invited seminar** on “Multimodal locomotion interfaces” at the Dept. of Mechanical Engineering, McGill University (Montreal, Canada)
- 11TH JUNE 2018 **Invited seminar** on “Smart Musical Instruments” at the Centre for Interdisciplinary Research in Music Media and Technology, McGill University (Montreal, Canada)
- 2ND MAY 2018 **Invited talk** “Towards the Internet of Musical Things” at Re:publica media convention (Berlin, Germany)
- 14TH JUNE 2017 **Invited seminar** on “Smart Instruments and the Internet of Musical Things” at Center for Digital Music, Queen Mary University of London
- 16TH MAY 2017 **Invited lecture** on “Smart Instruments” at Dept. of Network and Systems Engineering, KTH Royal Institute of Technology
- 20TH JULY 2016 **Invited radio Interview** about Sensus Smart Guitar by Elk at GearGuysRadio (New Jersey, USA)
- 1ST JUNE 2016 **Invited seminar** on “Multimodal locomotion interfaces” at Dept. of Mechanical Engineering of Columbia University (New York, USA)
- 22ND JAN. 2013 **Invited seminar** on “Multimodal locomotion interfaces” at Dept. of Engineering of University of Modena and Reggio (Italy)

Editorial service

2020–PRESENT 2022	Associate Editor of IEEE Access Leading guest editor of the special issue on the topic “Sonic Experiences: Interaction, Connectivity, and Multi-Sensory Technologies” at the Journal of Personal and Ubiquitous Computing
2021	Leading guest editor of the special issue on the “Internet of Sounds” topic at the Journal of the Audio Engineering Society
2020	Editor of the book “Ubiquitous Music Ecologies”, Routledge Press, 2020 (V. Lazzarini, D. Keller, N. Otero, and L. Turchet Eds.)

Demos at international events

8 TH SEP. 2020	Demo of a “Voice-based interface for soundscape composition: composing soundscapes by vocally querying online sounds repositories” at the IEEE Open Innovations Association FRUCT 2020 (Trento, Italy)
16 TH NOV. 2018	Demo of a “semantically-enriched Internet of Musical Things architecture” at the IEEE Open Innovations Association FRUCT 2018 (Bologna, Italy)
4 TH JUNE 2018	Demo of “Smart Mandolin–Musical Haptic Wearables interactions” at the International Conference on New Interfaces for Musical Expression (Blacksburg, USA)
8 TH 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)
3 RD DEC. 2015	Demo of the Sensus Smart Guitar at the EIT Digital Demo Day - European Institute of Innovation and Technology (Stockholm, Sweden)

Reviewing activities

GRANT PROPOSALS

- Marie Skłodowska-Curie Individual Fellowships (4 proposals)
- Research Council of Norway (8 proposals)
- Israel Science Foundation (1 proposal)

JOURNALS

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

CONFERENCES

- International Conference on New Interfaces for Musical Expression 2018 (8 papers), 2019 (5 papers), 2020 (7 papers), 2021 (4 papers)
- Audio Mostly Conference 2017 (3 papers and 2 music submissions), 2018 (5 papers), 2019 (2 papers), 2020 (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), 2020 (1 paper)
- IEEE World Haptics Conference 2019 (1 paper)
- ACM CHI Conference on Human Factors in Computing Systems 2019 (2 papers), 2021 (1 paper)
- 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)
- International Workshop on the Internet of Sounds 2020 (6 papers)
- Colloquio di Informatica Musicale 2014 (1 paper)

Realizations (selected)

HARDWARE

- Sensus Smart Guitar (with Elk). Video: <https://www.youtube.com/watch?v=fqzEQnsSIoY>
- Sensor technology for Hyper-Hurdy-Gurdy, Hyper-Zampogna, Hyper-Mandolin, Smart Cajòn, 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 Sensus Smart Guitar (with Elk)
- Max/MSP and Pure Data effect libraries for Hyper-Hurdy-Gurdy, Hyper-Zampogna, Hyper-Mandolin, Smart Cajòn, Smart Mandolin
- 4 Max for Live devices for the communication between the Sensus Smart Guitar and Ableton Live

Computer skills and competences

OPERATING SYSTEMS	Mac, Linux, Windows, Elk Audio OS
PROGRAMMING EXPERIENCES	Python, C, C++, Java, Max/MSP and Pure Data (and their native code for externals), JUCE framework, MATLAB, Processing, CSound, R statistical software, SAS, HTML, PHP, CSS, XML, Json, SPARQL, 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

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)

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: https://www.youtube.com/watch?v=kbJ89_wOmAY
- 6 JUNE 2018 Smart Mandolin soloist performance at International Conference on New Interfaces for Musical Expression 2018 (Blacksbourg, Virginia, USA). Video: <https://www.youtube.com/watch?v=VmJdLqejb-E>
- 20 NOV. 2017 Smart Mandolin soloist performance at Being Human Festival 2017 (London, United Kingdom). Video: www.youtube.com/watch?v=1XOVajLpfYY
- 20 SEP. 2017 Hyper Mandolin soloist performance at International Audio Mostly Conference 2017 (London, United Kingdom). Video: www.youtube.com/watch?v=rRJBTQziBEA
- 29 APR. 2017 Hyper Mandolin soloist performance at Kulturnatt Stockholm 2017 (Stockholm, Sweden). Video: www.youtube.com/watch?v=ecCooDhatj4
- 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, Auditorama concert venue (Stockholm, Sweden)
- 11 APR. 2014 Hyper Hurdy-Gurdy soloist performance at “LjudOljud 2014” contemporary music festival, Auditorama 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: www.youtube.com/watch?v=AXrZnODhzX4

RECORDINGS

- 2012 Guest musician in the album *Melodeonía* of Giuliano Gabriele & Ensemble. www.giulianogabriele.it

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 WORKS

- [E1] V. Lazzarini, D. Keller, N. Otero, and **L. Turchet**. “Ubiquitous Music Ecologies”, Routledge, 2020.

JOURNAL PAPERS

- [J1] **L. Turchet**, R. Hamilton and A. Çamci. *Music in Extended Realities*. IEEE Access, 9, 15810–15832, 2021.
- [J2] **L. Turchet** and C. Fischione. *Elk Audio OS: an open source operating system for the Internet of Musical Things*. ACM Transactions on the Internet of Things, 2021 (accepted).
- [J3] **L. Turchet**, G. Fazekas, M. Lagrange, S. Ghadikolaei, and C. Fischione. *The Internet of Audio Things: state-of-the-art, vision, and challenges*. IEEE Internet of Things Journal, 7(10), 10233–10249, 2020.
- [J4] **L. Turchet**, T. West, and M.M. Wanderley. *Touching the audience: Musical Haptic Wearables for augmented and participatory live music performances*. Personal and Ubiquitous Computing Journal, 1–21, 2020.
- [J5] **L. Turchet**, F. Antoniazzi, F. Viola, F. Giunchiglia, and G. Fazekas. *The Internet of Musical Things Ontology*. Journal of Web Semantics, 60, 100548, 2020.
- [J6] **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, 1(3), 1–29, 2020
- [J7] 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, 1–33, 2020.
- [J8] **L. Turchet** and M. Barthet. *An ubiquitous smart guitar system for collaborative musical practice*. Journal of New Music Research, 48(4), 352–365, 2019.

10. [J9] **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.
11. [J10] **L. Turchet**. *Smart Musical Instruments: vision, design principles, and future directions*. IEEE Access, 7, 8944–8963, 2019.
12. [J11] **L. Turchet**, C. Fischione, G. Essl, D. Keller, and M. Barthet. *Internet of Musical Things: Vision and Challenges*. IEEE Access, 6, 61994–62017, 2018.
13. [J12] **L. Turchet**, A. McPherson, and M. Barthet. *Real-time hit detection in a Smart Cajón*. Frontiers in ICT, 5:16, 2018.
14. [J13] **L. Turchet**, A. McPherson, and M. Barthet. *Co-design of a Smart Cajón*. Journal of the Audio Engineering Society, 66(4), 1–11, 2018.
15. [J14] **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.
16. [J15] **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.
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SUMMARY OF BIBLIOMETRIC INDICATORS

N. publications	93
N. books	1
N. journal articles	30
N. book chapters	13
N. conference articles	48
N. first-authored articles	60 (64%)
N. last-authored articles	14
N. first + last-authored articles	74 (79%)
N. awarded articles	4
N. international patents	2
N. citations on Scopus	609
N. citations on Google Scholar	1081
H-index on Scopus	14
H-index on Google Scholar	17

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