

Niccolò Granieri

Music Interaction Designer

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Education

- 2021 **Fellow of the Higher Education Academy**, *Birmingham City University*, Birmingham, UK.
- 2016 – 2020 **PhD (Pass with minor corrections) in Music Technology (FT)**, *Royal Birmingham Conservatoire*, BCU, Birmingham.
- Title *Augmenting the experience of playing the piano: controlling audio processing through ancillary gestures.*
- Supervisors Prof. Lamberto Coccioli - Royal Birmingham Conservatoire, Birmingham City University
James Dooley - Royal Birmingham Conservatoire, Birmingham City University
Jason Hockman - Birmingham City University
Tychonas Michailidis - Southampton Solent University
- 2017 **Associate Fellow of the Higher Education Academy**, *Birmingham City University*, Birmingham, UK.
- 2017 **PGCert in Research Methods**, *Birmingham City University*, Birmingham, UK.
- 2012–2015 **BMus (Summa cum Laude) in Music and New Technologies**, *Conservatorio di Musica G. Tartini*, Trieste, IT.
- 2014 **Soundtrack Composition Course**, *Lizard Accademia Musicale*, Firenze, IT.
- 2014 **Wave Field Synthesis Workshop**, *Conservatorio di Musica G. Tartini*, Trieste, IT.
Techniques for the Wave Field Synthesis diffusion system and the composition of electroacoustic performance with Prof. Giorgio Klauer.
- 2014 **Masterclass Decibel Group**, *Conservatorio di Musica G. Tartini*, Trieste, IT.
The complete John Cage Variations Projects.
- 2013 **Electronic Music Production Course**, *London School of Sound*, London, UK.
- 2006–2011 **High School Diploma - Language Course**, *Liceo Francesco Petrarca*, Trieste, Italy.

Work Experience

- September 2022 - **Lecturer in Game Audio (Lecturer)**, *Civica Orchestra di Fiati*, Trieste, IT.
Ongoing Lecturer for the Game Audio course for students of all ages and levels of expertise.
- November 2020 - **External Examiner (Examiner)**, *University of Chichester*, Chichester, UK.
Ongoing External examiner for the following courses: MA Music Education, MA Composition for Film, TV and Games, MA Sound Design for Visual Media programmes in partnership with Sonus Factory.
- January 2020 - **Lecturer in Digital Media Technology (Lecturer)**, *DMT Lab, School of Computing and Digital Technology*, *Birmingham City University*, Birmingham, UK.
July 2022
- October 2019 **Workshop Facilitator and Academic Expert**, *Providence, Rhode Island, USA*.
Prepared and delivered workshop around the topic of Machine Learning for Creative Applications using ml.lib, a library of machine learning externals for Max and Pure Data. *Max 8, Pure Data, ml.lib*
- February 2019 – **Freelance Software Developer and UI Designer for AudioBulb**, *Sheffield, UK*.
January 2020 Max software developer for the AMBIENT plugin. *Max 8, Photoshop CC, macOS, Windows*
- September 2018 – **Teaching Fellow (Visiting Lecturer)**, *Royal Birmingham Conservatoire*, Birmingham, UK.
January 2020 Techniques of Electronic Music Elective, Interactive Music Technology Performance, Music Technology Contexts. *Max 8, Pure Data, Arduino, Project Management*

- September 2018 – **Student Tutoring**, *Royal Birmingham Conservatoire*, Birmingham, UK.
January 2020 One-to-one tutoring with students in their final year to guide them in the conceptualisation and realisation of their final year projects.
- February 2018 – **Teaching Fellow (Visiting Lecturer)**, *Coventry School of Art and Design*, Coventry, UK.
July 2018 Lecturer for the Multimedia Programming Environments module. Subjects include designing an interactive musical system using Max MSP 6 and the usage of the JS object to implement write and design objects. *Max MSP 6, Javascript*
- September 2016 – **Teaching Fellow (Visiting Lecturer)**, *Faculty of Computing, Engineering and The Built Environment*, Birmingham City University, Birmingham, UK.
July 2018 Lecturer for the Audio Systems module. Subjects include designing an interactive system using the Arduino board, coding in the Arduino IDE and generating sound using the Mozzi library or Pure Data and various sensors. *Arduino, Mozzi, Pure Data*
- September 2016 – **Demonstrator**, *Faculty of Computing, Engineering and The Built Environment*, Birmingham City University, Birmingham, UK.
July 2017 Demonstrator for the Lab part of the Audio Systems module. Subjects include helping students build a pre-amplifier, soldering, testing.
- September 2015 – **Traineeship (Assistant Researcher)**, *Integra Lab*, Royal Birmingham Conservatoire, Birmingham, UK.
June 2016 Assistant to all researchers in the Integra Lab. Developed a set of modules for the Integra Live softwares emulating the Eurorack modular synthesiser format.

Funding and Awards

- May 2017 **Ernest Newman Prize**, *Royal Birmingham Conservatoire*, Birmingham, UK.
£ 100 - Best paper presented at the Research Study Day
- February 2017 **STEAM Bursary**, *Birmingham City University*, Birmingham, UK.
£ 14.296 - Annual Birmingham City University PhD Classic Doctoral Training Grant and PhD Fee Waiver.
- December 2014 **Erasmus+ Research Bursary**, *Conservatorio di Musica G. Tartini*, Trieste, IT.
€ 4.112 - Erasmus+ Research bursary awarded as part of the EU Work With Music programme.

Publications

Book Chapters

- 2020 **Granieri, N., Dooley, J., Michailidis, T.**
Retaining Pianistic Virtuosity in #MIs: Exploring Pre-Existing Gestural Nuances for Live Sound Modulation through a Comparative Study. *Innovation in Music. Performance, Production, Technology, and Business*, 1st Edition. Routledge.
- 2019 **Granieri, N., Michailidis, T., Dooley, J.**
Microgestural implementation for the creation of an expressive keyboard interface. *Innovation in Music. Performance, Production, Technology, and Business*, 1st Edition. Routledge.

Papers

- 2022 **Wilson, W., Ali-Maclachlan, I., Granieri, N.**
Combining Gestural and Audio Approaches to the Classification of Violin. *International Workshop on Folk Music Analysis, FMA*
- 2019 **Granieri, N., Dooley, J.**
Reach: a keyboard-based gesture recognition system for live piano sound modulation. *Proceedings of the International Conference on New Interfaces for Musical Expression, UFRGS*, pp. 375-376

Posters

- 2018 **Granieri, N.**
Reach – Designing Keyboard Instruments with pianists in mind. *Sound, Image and Interaction Doctoral Symposium 2018 (SIIDS18)*. Madeira Interactive Technologies Institute, Madeira, PT.
- 2017 **Granieri, N.**
From piano to piano. *Research Conference 2017(RESCON)*. Birmingham City University, Birmingham, UK.

Conference Presentations

- 2019 **Granieri, N.**
Retaining Pianistic Virtuosity in #MIs Exploring Pre-Existing Gestural Nuances for Live Sound Modulation through a Comparative Study, Innovation In Music 2019 (InMusic19). University of West London, London, UK.
- 2018 **Granieri, N.**
Reach – Designing Keyboard Instruments with pianists in mind. Sound, Image and Interaction Doctoral Symposium 2018 (SIIDS18). Madeira Interactive Technologies Institute, Madeira, PT.
- 2017 **Granieri, N., Michailidis, T., Dooley, J.**
Microgestural implementation for the creation of an expressive keyboard interface. Innovation in Music 2017 (InMusic17), London, UK.
- 2017 **Granieri, N.**
Expressing through gesture nuances: Bridging the analog and digital divide. Beyond Borders 17, Birmingham City University, Birmingham, UK.
- 2017 **Granieri, N.**
Implementing Expressive Microgestures in a Creative Digital Environment. Research and Innovation Conference (RIConf17). Southampton Solent University, Southampton, UK.

Workshops

- 2020 **Jenseni, A. R., McPherson, A., Xambó Sedó, A., Martin, C., Armitage, J., Granieri, N., Fiebrink, R., Naveda, L.**
NIME Publication Ecosystem Workshop. New Interfaces for Musical Expression (NIME20). Royal Birmingham Conservatoire, Birmingham City University, Birmingham, UK.

Dissertations

- 2015 **Undesired Signal**, *Conservatorio di Musica G. Tartini*, Trieste, IT.
Final bachelor dissertation revolving around the difference between noise and music in contemporary times. The thesis included the performance of a piece related to the discussion, that used the rumble of the audience as the main sound source, and random number generator as main algorithmic composers.

Supervisory Roles

- September 2022 - **Danilo Randazzo (PhD Part-Time)**, *Birmingham City University*, Birmingham, UK.
Ongoing Title: Real-time Timbre Augmentation: Performing Inherent Sound Properties
- September 2021 - **William Wilson (PhD Full-Time)**, *Birmingham City University*, Birmingham, UK.
Ongoing Title: Computational Analysis of Style in Traditional Fiddle Playing

Professional Memberships

Paper Reviewer, *NIME (2020–2022)*, *FMA (2022)*, *HAID (2022)*, *CHI (2021)*, *Audio Mostly (2021)*, *Eurasia Graphics (2021)*, *Digital Creativity Journal (2021)*, *Sound Image and Interaction Journal (2020)*, *RIFFS Journal (2019–2020)*.

Music Reviewer, *NIME (2020–2022)*.

Workshop Reviewer, *Audio Mostly (2021)*.

Installation Chair, *NIME (2020)*.

Founder and Committee Member, *Technology in Musical Performance Study Group (2019)*.

Events

- July 2020 **NIME2020 - International Conference on New Interfaces for Musical Expression - Conference Organiser, Installation Chair, Reviewer**, *Royal Birmingham Conservatoire*, Birmingham, UK, Organisation of the yearly International NIME conference, hosted at the Royal Birmingham Conservatoire. The conference gathers researchers and musicians from all over the world to share their knowledge and late-breaking work on new musical interface design..

- December 2019 **TiMP Symposium - Technology in Musical Performance - Event Organiser, Committee Member**, *Royal Birmingham Conservatoire*, Birmingham, UK, Organisation and supervision of the first TiMP Symposium, hosted in the Royal Birmingham Conservatoire. A forum for all who engage with electronics in live music performance. The group aims to stimulate discussion and collaboration between performers, composers, sound artists, practitioners, programmers, software developers and sound designers on musical performance with/mediated by technology..
- May 2018 **Arduino Day - Event Organiser**, *Royal Birmingham Conservatoire*, Birmingham, UK, Organisation and supervision of the Arduino Day 2018 hosted in the Royal Birmingham Conservatoire to make young conservatoire students interact with the world of embedded boards, sensors and DIY instruments.

Software Development

- 2019 **ml.lib**, *Bullock, J., Momeni, A.*
Open source software tester and junior developer for the Pure Data and Max machine learning library.
- 2018 **Span Extract**, *Granieri, N.*
Open source software developer of the command line tool to search and parse interview transcripts.
- 2018 **Reach**, *Granieri, N., Bledsoe, J.*
Open source software developer of the Leap Motion Orion SDK OSC mapper.
- 2015 **Eurorack Modules - Integra Live**, *Granieri, N.*
Realisation of a set of modules in Pure Data to recreate the basics of a Eurorack Modular Synthesiser for Integra Live.

Computer skills

- Basic JUCE, Bootstrap, Blender
- Intermediate SwiftUI, Swift, Arduino, Processing, Microsoft Windows, Logic X, Ableton Live 9, Photo-shop
- Advanced Git, Python, Pure Data, Max, \LaTeX , macOS, Office Suite, Premiere Pro, Final Cut Pro X, Pixelmator, Sketch

Languages

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|---------|----------------|-------------------------------|
| Italian | Native Speaker | |
| English | Near Native | <i>excellent command</i> |
| French | Intermediate | <i>good working knowledge</i> |
| Spanish | Intermediate | <i>good working knowledge</i> |
| German | Basic | |