

## Federico Nicolás Cámara Halac

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## Education

### PhD

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2019      **Music Composition and Theory, New York University.** Graduate School of Arts and Sciences. Dissertation title: “Database Music: A History, Technology, and Aesthetics of the Database in Music Composition”. Advisor: Jaime Oliver La Rosa (NYU GSAS). Readers: Elizabeth Hoffman (NYU GSAS), Martin Daughtry (NYU GSAS), William Brent (American University), and Robert Rowe (NYU Steinhardt). New York, NY (USA). Sep 2013 - Jun 2019.

### Licenciate

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2012      **Music Composition, Universidad Nacional de Córdoba.** Facultad de Artes. Thesis Title: “A Form of Pleasure: Music as an Experience of Pleasure”. Advisor: José Halac. Readers: Eleazar Garzón, Sergio Poblete, Claudio Bazán, and Pablo de Giusto (Bachelor and Masters equivalence). Córdoba (Argentina). Mar 2006 - Jul 2012.

## Professional Appointments

### Postdoctorate

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2021      **Postdoctoral Scholar in Immersive Audio, The Ohio State University.** Global Arts and Humanities Discovery Theme, School of Music, Advanced Computing Center for the Arts and Design. Columbus, OH (USA). 2019-2021.

## Research Interests

Computer Music. Spatial Audio. Immersive Sound. Machine Learning. Digital Signal Processing. Algorithmic Composition. Computer Vision. Networked Performance Music. Sonification. Database Music.

# Publications

## Conference Proceedings

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- 2021 | Sep **Visual Cues as an Aid in the Auditory Stream Segregation of Music.** International Conference on Music Perception and Cognition - European Society for the Cognitive Sciences of Music. Samantha Burgess, Federico Camara Halac, and Daniel Shanahan. 28 September 2021.
- August **‘The Woods:’ A Mixed Reality Two-Player Cooperative Game.** SIGGRAPH. Scott Swearingen, Kyoung Swearingen, Federico Camara Halac, Sruthi Ammannagari, and Matt Hall. 09 August 2021.
- July **DreamSound: Deep Activation Layer Sonification.** International Community for Auditory Displays. Federico Camara Halac and Matias Delgadino. 25 July 2021.
- February **Comparing Musical Performances of the ‘Goldberg Variations’ Using Supervised Machine Learning Techniques.** Future Directions of Music Cognition (Accepted but not presented). Arturo Barrios, Leo A. Glowacki, Lindsay Warrenburg, and Federico Camara Halac. 12 February 2021.
- 2017 | Oct **A Spectral Experience: Self Convolution and Face Tracking.** International Computer Music Conference (Accepted but not presented). 11 October 2017.

## Conference Poster

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- 2020 **PathoSonic: Performing Sound In Virtual Reality Feature Space.** New Interfaces for Musical Expression. Federico Camara Halac and Shadrick Addy. 24 January 2020.

## Conference Panel

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- 2020 **[clone fd\_dacout]: real-time massively multichannel spatialization in Pure Data.** Jornadas de Informática y Electrónica Musical - Espacios Sonoros. 05 March 2020.

## PhD Dissertation Defense

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- 2019 **Database Music: A History, Technology, and Aesthetics of the Database in Music Composition.** New York University. 06 May 2019.

## Guest Speaker

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- 2021 | Sep **A History of the Database in Computer Music.** Festival Atemporáneas. 13 September 2021.
- 2018 | Jun **Composing Database: Opening A Space For The Concept Of An Anarchic Unwork Of Art..** Delian Academy for New Music. 11 June 2018.

2016      **Inopera: A Multimedia Work for Loadbang and Pure Data.**  
Universidad Nacional de Córdoba. 15 June 2016.

## Other Publications

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2017      **‘For Young Years:’ A Response To Elsa Justel’s Marelle.** Open  
Space Magazine - Issue 21 . 10 August 2017.

## Awards and Honors

### Fellowships

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2018 | Sep    **Dean’s Dissertation.** Graduate School of Arts and Sciences (New York  
University). Berlin (Germany).

January      **Graduate Research Initiative.** Provost (New York University).  
Florence (Italy) and Paris (France). 2018 and 2017

2013 | Sep    **The Henry M. MacCracken Program.** Graduate School of Arts and  
Sciences (New York University). New York City (USA).

### Prizes

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2015 and      **“Ciudad Invertida” and “Venas” (Selected Works)** Elsa Justel  
2014          (Fundación Destellos). Mar del Plata (Argentina).

2011 | Jul    **"Lagos" (Orchestral Premiere).** Orquesta Sinfónica de la UNC -  
Músicas en Dirigible (Universidad Nacional de Córdoba). Córdoba  
(Argentina).

### Conference Funds

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2017      **Student Senators Council.** Graduate School of Arts and Sciences (New  
York University). Shanghai (China).

### Exchange Program

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2012      **Programa Cuarto Centenario.** Prosecretaría de Relaciones  
Internacionales (Universidad Nacional de Córdoba and Université de  
Montréal). Montréal (Canada).

## Performances

### Solo

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2020 | Mar    **Concierto de arte sonoro en Espacio B.** Ricardo Barney & Pedro  
Fraguela. Laptop. Espacio B - Madrid (Spain). 04 March 2020.

2017 | Aug    **Lorenz Variations.** Cube Fest at Virginia Tech - Blacksburg, VA  
(USA). 03 August 2017.

2016 | Oct **Opening Portals.** Jessica Rosen. Bookentiometers. ShapeShifter Lab in Brooklyn - New York City, NY (USA). 11 October 2016.

## **The Sonic Arts Ensemble at OSU**

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- 2021 | Jun **8th Music and/as Process Conference: Networked Collaborative Processes 2021.** Thornblower. Netty McNetface - Columbus, OH (USA). 26 June 2021.
- April **SEAMUS (TWELVE).** Thornblower. CCRMA - Stanford, CA (USA). 23 April 2021.
- Earth Day Art Model 2021.** Thornblower. EDAM Festival - Indianapolis, IA (USA). 22 April 2021.
- Sonic Arts Ensemble Live-Stream Performance.** Thornblower. Netty McNetface - Columbus, OH (USA). 06 April 2021.
- 2020 | Oct **Into The Multiverse.** Thornblower. The Wexner Center for the Arts - Columbus, OH (USA). 20 October 2020.
- 2019 | Sep **Sonic Arts Ensemble and Atelier Avant Austria present "Virtuoso Chances".** Andreas Weixler, Se-Lien Chuang, Marc Ainger, Ann Stimmson, and the Sonic Arts Ensemble. Pure Data, joyosc, and a PS4 Controller. ACCAD Motion Lab - Columbus, OH (USA). 23 September 2019.

## **Hijos de Distinta Madre**

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- 2020 | May **CyberJam en La Cupula.** Pure Data, joyosc, and a PS4 Controller. La Cupula Galeria de Arte - Córdoba (Argentina). 09 May 2020.
- 2019 | Dec **HDDM + fddcchh + Marmotas Dreams & friends.** Pure Data, joyosc, and a PS4 Controller. La Cupula Galeria de Arte - Córdoba (Argentina). 21 December 2019.
- HDDM + fddcchh.** Pure Data, joyosc, and a PS4 Controller. Casa Mandarina - Córdoba (Argentina). 19 December 2019.
- Mermetom + Fede Camara Halac.** Mermetom (Gustavo Alcaraz & Vero Guevara) and . Pure Data, joyosc, and a PS4 Controller. La Cupula Galeria de Arte - Córdoba (Argentina). 08 December 2019.

## **Live Video and Electronics**

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- 2017 | Jun **Electroacoustic Improvisations..** Joan Bages i Rubi, Bernardo Barros, Kyle Motl, and Joan Marti Frasier. Midi controller and Laptop. NYU Waverly Labs r.220 - New York City, NY (USA). 19 June 2017.
- April **a.le.a.** Talea Ensemble. Midi controller and networked Laptops. The Dimenna Center for Classical Music - New York City, NY (USA). 07 April 2017.
- 2016 | Nov **Ciudad Invertida.** RAGE THORNBONES. Laptop. ShapeShifter Lab - New York City, NY (USA). 22 November 2016.

- September **sk.** TAK Ensemble. Laptop. Waverly Labs, r.220 - New York City, NY (USA). 29 September 2016.
- April **INOPERA.** Loadbang Ensemble. Midi controller and Laptop. The Dimenna Center for Classical Music - New York City, NY (USA). 20 April 2016.
- 2015 | Aug **Ciudad Invertida.** Rocío Elizalde y Manuel Pastrana. Laptop. Bienal 3 en Composición e Investigación Musical - Córdoba (Argentina). 20 August 2015.
- February **Mise-En at German House.** Samuel Marques. Pure Data live processing. German Consulate - New York City, NY (USA). 06 February 2015.
- 2014 | Apr **Momenta Quartet Plays NYU Composers.** Momenta Quartet. Laptop. NYU Silver Center r.220 - New York City, NY (USA). 21 April 2014.

## LEIM Ensamble

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- 2012 | Aug **Ciclo Experimentalia.** Piano, Analog Synthesizer. Centro Cultural España Córdoba - Córdoba (Argentina). 10 August 2012.
- 2011 | Nov **Summer Concert.** Piano, Analog Synthesizer. Auditorio CePIA - Córdoba (Argentina). 10 November 2011.
- October **Teatro Acústico.** Piano, Analog Synthesizer. Facultad de Artes, UNC - Córdoba (Argentina). 02 October 2011.
- September **Ciclo Contengo-Arte.** Piano, Analog Synthesizer. Instituto Italiano de Cultura - Córdoba (Argentina). 14 September 2011.
- Micro-Symposio de Análisis Musical.** Piano, Analog Synthesizer. Facultad de Artes, UNC - Córdoba (Argentina). 12 September 2011.
- August **Winter Concert.** Piano, Analog Synthesizer. Auditorio CePIA - Córdoba (Argentina). 23 August 2011.
- June **Ciclo Experimentalia.** Piano, Analog Synthesizer. Centro Cultural España Córdoba - Córdoba (Argentina). 20 June 2011.
- May **TSOAMI.** Piano, Analog Synthesizer. Centro Cultural Recoleta - Buenos Aires (Argentina). 10 May 2011.
- 2010 | Dec **Nosocomio.** Piano, Analog Synthesizer. Centro Cultural España Córdoba - Córdoba (Argentina). 12 December 2010.
- November **Summer Concert.** Piano, Analog Synthesizer. Auditorio CePIA - Córdoba (Argentina). 14 November 2010.
- September **1st International Biennial of Music Composition and Education.** Piano, Analog Synthesizer. Auditorio CePIA - Córdoba (Argentina). 14 September 2010.
- 2009 | Jan **Performances and Workshops.** Piano, Analog Synthesizer. LEIM Facultad de Artes - Córdoba (Argentina). 01 January 2009.

## Proyecto [Red] Ensemble

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- 2016 | Aug **Canon.** Midi controller and Laptop. Centro Cultural Graciela Carena - New York City, NY (USA). 06 August 2016.
- 2012 | Nov **Concert.** Piano. Auditorio CePIA - Córdoba (Argentina). 12 November 2012.
- Aniversario de la Facultad de Artes.** Piano, Trumpet, Midi Controller. Auditorio CePIA - Córdoba (Argentina). 01 November 2012.
- September **John Cage Festival.** Piano. Auditorio CePIA - Córdoba (Argentina). 05 September 2012.
- August **Concert at B2CIM.** Piano, Trumpet, Midi Controller. Auditorio CePIA - Córdoba (Argentina). 23 August 2012.
- June **Concierto de Alquimistas.** Piano. Aula Magna FCEfyN - Córdoba (Argentina). 29 June 2012.
- Concierto Final de Tesis.** Piano. Auditorio CePIA - Córdoba (Argentina). 12 June 2012.
- 2011 | Oct **Congreso de Ciencias Humana.** Electric Guitar. Escuela Monserrat - Córdoba (Argentina). 20 October 2011.
- September **Micro-Symposium de Análisis Musical.** Piano. Aula Magna de la Facultad de Artes - Córdoba (Argentina). 10 September 2011.
- August **Arte Forum 2: Homage to Oscar Bazán.** Piano. Auditorio CePIA - Córdoba (Argentina). 18 August 2011.
- July **Winter Concert.** Electric Guitar, Piano. Auditorio CePIA - Córdoba (Argentina). 10 July 2011.
- 2010 | Nov **Summer Concert.** Conductor. Auditorio CePIA - Córdoba (Argentina). 20 November 2010.
- July **Ciclo La Máquina de Tiempo.** Trumpet. Centro Cultural España Córdoba - Córdoba (Argentina). 02 July 2010.

## Other Roles

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- 2020 | Jan **CLIMATE GATHERING.** Norah Zuniga Shaw. Max/MSP and Ipad. Movement Lab at Barnard College - New York City, NY (USA). 15 January 2020.
- 2012 | Mar **Guest Pianist.** LAMOI. Piano. Paseo del Buen Pastor - Córdoba (Argentina). 10 March 2012.
- 2010 | Sep **Inserto Beat.** Luisina Couto, Pablo Behm. Guitar. Cineclub Municipal Hugo del Carril - Córdoba (Argentina). 18 September 2010.
- March **Guest Pianist.** Orquesta Sinfónica de Río Ceballos. Piano. Teatro Municipal - Río Ceballos, CBA (Argentina). 12 March 2010.

# Teaching

## Professor

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- 2021 | Mar **Computational Musicology 8824.** The Ohio State University. School of Music. Columbus, OH (USA). Spring 2021.
- September **Sonic Arts Ensemble.** The Ohio State University. Advanced Computing Center for the Arts and Design. Columbus, OH (USA). Fall - Spring 2020, Fall 2019.
- 2015 **Harmony and Counterpoint I.** New York University. Faculty of Arts and Science. New York, NY (USA). Fall 2015.

## Course Assistant

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- 2016 **Computer Music Theory and Techniques.** New York University. Faculty of Arts and Science. New York, NY (USA). Fall 2016.

## Teaching Assistant

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- 2015 | Mar **Harmony and Counterpoint II.** New York University. Faculty of Arts and Science. New York, NY (USA). Spring 2015.
- 2014 | Sep **Harmony and Counterpoint I.** New York University. Faculty of Arts and Science. New York, NY (USA). Fall 2014.
- 2010 | Jan **Composición Musical I.** Universidad Nacional de Córdoba. Facultad de Artes. Cordoba, CBA (ARG). 2010 and 2009
- 2008 **Audioceptiva I.** Universidad Nacional de Córdoba. Escuela de Artes - FFyH. Cordoba, CBA (ARG). 2008 and 2007

# Artistic Collaborations

## Networked Performance Music

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- 2021 | Jan **1002: A Networked Music Performance with CollidePd** (ongoing). International Computer Music Conference. Federico Ragessi. Córdoba (Argentina).
- 2020 | Mar **The Sonic Arts Ensemble at OSU** (ongoing). Advanced Computing Center for the Arts and Design. Marc Ainger and Ann Stimson. Columbus, OH (USA).

## Installations

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- 2019 | Sep **The Woods** (ongoing). Advanced Computing Center for the Arts and Design. Kyoung Swearingen, Scott Swearingen, Marc Ainger, Sruthi Ammannigari, and Matt Hall. Columbus, OH (USA).
- 2017 | Oct **Hearing the Self: A Spectral Experience.** Xuhui Art Muesum. Matias Delgadino and Lucia Simonelli. Shanghai (China).

## Theatre

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- 2013 | Oct **Poroto.** Pabellón Azul - UNC . Celeste Lozada and Valentina Echeverría. Córdoba (Argentina).
- 2012 | Sep **Itinerante: un Viaje a Través de Los Sentidos.** Sindicato de Vendedores de Diarios y Revistas. Agustina Muñoz. Córdoba (Argentina).
- 2011 | May **Tesis de Licenciatura de Teatro.** Plazoleta del Fundador. Luisina Couto. Córdoba (Argentina).
- 2010 | Apr **Inserto Beat.** Cineclub Municipal Hugo del Carril. Luisina Couto. Córdoba (Argentina).

## Other Collaborations

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- 2013 | Feb **Los Chicos de Abril (Opera).** Teatro Municipal de Río Cuarto. Luis Perez, Pablo Behm, and Franco Pellini. Río Cuarto , CBA (Argentina).
- 2011 | Aug **Al Cielo o al Infierno (Film).** Cines Gran Rex. Lauro Racosky. Córdoba (Argentina).
- 2010 | May **Alicia en el País de las Maravillas (Dance).** Teatro del Libertador San Martín. José Halac. Córdoba (Argentina).

## Service

### Disciplinary Service

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- 2020 | Jan **New Interfaces for Musical Expression** (ongoing). Reviewer. Paper and Installation submissions. New York City (USA).
- 2019 **Festival Atemporaneas.** Reviewer. Installation, Audiovisual, and Sound Art submissions. Buenos Aires (Argentina). 2019-2020.
- 2018 **New York City Electroacoustic Music Festival** (ongoing). Reviewer. Music submissions. New York City (USA).
- International Computer Music Conference** (ongoing). Reviewer. Installations and Music Submissions. New York City (USA).
- 2016 **PdCon16~.** Organizer. Website and Conference Program. New York City (USA).
- 2010 **Bienal Composición Córdoba.** Organizer. Website and Conference Program. Córdoba (Argentina). 2010-2015.

### University Service

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- 2013 | Jan **Waverly Project.** Founding Member. Website and Program. New York City (USA). 2013-2017.
- 2010 **Proyecto [Red] Ensemble.** Founding Member. Website and Program. Córdoba (Argentina). 2010-2015.



## Other Skills

Languages	<b>Spanish</b> (Native) <b>English</b> (Advanced) <b>French</b> (Intermediate) <b>German</b> (Beginnder, A2 Level. Currently Studying.)
Code	<b>Pure Data</b> (Expert) <b>Python</b> (Advanced: Numpy, Scipy, tensorflow, librosa) <b>JavaScript</b> (Advanced: Web Audio API, Node.js) <b>C</b> (Pure Data Externals) <b>C++</b> (GEM and Max MSP Externals) <b>Bash</b> (Server-side scripting) <b>HTML</b> (Web Publishing with CSS) <b>L<sup>A</sup>T<sub>E</sub>X</b> (Text Publishing) <b>Git</b> (Version management, software release)
Software	<b>Max/MSP. Csound. Jacktrip. Audacity. REAPER. Ableton Live. Adobe Creative Suite.</b>