Federico Nicolás Cámara Halac

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Professional Appointments

Postdoctorate

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.

Academic

2016   **Course Assistant, New York University.** Faculty of Arts and Science. New York (USA).

2015   **Teaching Assistant, New York University.** Faculty of Arts and Science. New York (USA). 2014-2015.

2010   **Teaching Assistant, Universidad Nacional de Córdoba.** Facultad de Artes. Córdoba (Argentina). 2007-2010.

Education

PhD

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

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.

Research Interests

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

Publications

Conference Proceedings

2021 | Aug **'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 **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 July 2021.

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.

Other Publications

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

Presentations

Conference Poster

2021 **PathoSonic: Performing Sound In Virtual Reality Feature Space.** New Interfaces for Musical Expression. Birmingham (UK). 24 January 2020.

Conference Panel

2021 **[clone fd_dacout]: real-time massively multichannel spatialization in Pure Data.** Jornadas de Informática y Electrónica Musical - Espacios Sonoros. Madrid (Spain). 05 March 2020.

PhD Dissertation Defense

2021 **Database Music: A History, Technology, and Aesthetics of the Database in Music Composition.** New York University. New York (USA). 06 May 2019.

Invited Talks

2021 | Jun **Composing Database: Opening A Space For The Concept Of An Anarchic Unwork Of Art.** Delian Academy for New Music. Mykonos (Greece). 11 June 2018.

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

September **A History of the Database in Computer Music.** Festival Atemporáneas. Buenos Aires (Argentina). 13 September 2021.

Awards and Honors

Fellowships

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).

2017 **Graduate Research Initiative.** Provost (New York University). Paris (France).

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

Prizes

2015 | Jun **"Ciudad Invertida" (Selected Works).** Elsa Justel (Fundación Destellos). Mar del Plata (Argentina).

2014 **"Venas" (Selected Works) .** Elsa Justel (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

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

Exchange Program

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

Performances

Solo

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

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

2020 | May   **Thanks to Federico Ragessi and Franco Pellini (Hijos de Distinta Madre), Marmotas Dreams (Berenice Llorens and Constanza Pellicci) , and Jorge Castro (fisterni @ La Cúpula) for an amazing performance and night..** Pure Data, joyosc, and a PS4 Controller. La Cúpula Galería de Arte - Córdoba (Argentina). 09 May 2020.

2019 | Dec   **HDDM + ffddcchh + Marmotas Dreams & friends.** Pure Data, joyosc, and a PS4 Controller. La Cúpula Galería de Arte - Córdoba (Argentina). 21 December 2019.

HDDM + ffddcchh. 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 Cúpula Galería de Arte - Córdoba (Argentina). 08 December 2019.

Live Video and Electronics

2017 | Jun   **Electroacoustic Improvisations.** Joan Bages i Rubi, Bernardo Barros, Kyle Motl, and Joan Marti Frasquier,. 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 THORMBONES. 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 Ensemble

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-Simposio 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	**TSONAMI.** 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

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-Simposio 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

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

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 2021.

2020 | Mar **Sonic Arts Ensemble.** The Ohio State University. Advanced Computing Center for the Arts and Design. Columbus, OH (USA). Spring 2020.

2019 | Sep **Sonic Arts Ensemble.** The Ohio State University. Advanced Computing Center for the Arts and Design. Columbus, OH (USA). Fall 2019.

2015 **Harmony and Counterpoint I.** New York University. Faculty of Arts and Science. New York, NY (USA). Fall 2015.

Course Assistant

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

Teaching Assistant

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. Córdoba, CBA (ARG).

2009 **Composición Musical I.** Universidad Nacional de Córdoba. Facultad de Artes. Córdoba, CBA (ARG).

2008 **Audioperceptiva I.** Universidad Nacional de Córdoba. Escuela de Artes - FFyH. Córdoba, CBA (ARG).

2007 **Audioperceptiva I.** Universidad Nacional de Córdoba. Escuela de Artes - FFyH. Córdoba, CBA (ARG).

Artistic Collaborations

Networked Music Performance

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

2019 | Sep **The Woods** (ongoing). Advanced Computing Center for the Arts and Design. Kyoung Swearingen, Scott Swearingen, Marc Ainger, Sruthi Ammanngari, and Matt Hall. Columbus, OH (USA).

2017 | Oct **Hearing the Self: A Spectral Experience.** Xuhui Art Museum. Matias Delgadino and Lucia Simonelli. Shanghai (China).

Theatre

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

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

2020 | Jan **New Interfaces for Musical Expression** (ongoing). Reviewer. Paper and Installation submissions. New York City (USA).

2019 **Festival Atemporáneas.** 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

2013 | Jan **Waverly Project.** Founding Member. Website and Program. New York City (USA). 2013-2017.

2010 **Proyecto [Red] Ensamble.** Founding Member. Website and Program. Córdoba (Argentina). 2010-2015.

Other Skills

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