Curriculum Vitae

Federico Nicolás Cámara Halac

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Birth	8th May 1988, Córdoba, Argentina

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.

Graduate

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

2015 **Teaching Assistant, New York University.** 2014-2015.

Undergraduate

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

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

Conference Panel

2020   **[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

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

Invited Talks

2018 | 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.

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

2021 | Sep   **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), Paris (France). 2018, 2017.

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).**

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).

Teaching

Professor

2021 | Mar **Computational Musicology 8824.** The Ohio State University. School of Music. Columbus, OH (USA). Spring 2021.

September **Sonic Arts Ensemble.** Advanced Computing Center for the Arts and Design. Fall 2021, Spring 2020, Fall 2019.

2015 **Harmony and Counterpoint I.** New York University. Faculty of Arts and Science. New York, NY (USA). Fall 2015, Fall 2014.

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.

2010 | Jan **Composición Musical I.** Universidad Nacional de Córdoba. Facultad de Artes. Córdoba, CBA (ARG). 2010, 2009.

2008 **Audioperceptiva I.** Escuela de Artes - FFyH. 2008, 2007.

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.

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.

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.

Service

Disciplinary Service

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

2019 **Festival Atemporáneas.** 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). Installations and Music Submissions.

2016 **PdCon16~.** Organizer. Website and Conference Program. New York City (USA).

2010 **Bienal Composición Córdoba.** 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.** Website and Program. Córdoba (Argentina). 2010-2015.

Performances

Solo

2020 | Mar **"Untitled 2".** "Concierto de Arte Sonoro" with Ricardo Barney and Pedro Fraguela. Laptop
at Espacio B. Madrid (Spain). 04 March 2020.

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

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

The Sonic Arts Ensemble at OSU

2021 | Jun **S.A.E. Livestream.** Thornblower at 8th Music and/as Process Conference: Networked
Collaborative Processes 2021. Columbus, OH (USA). 26 June 2021.

April **Seamus (Twelve).** Thornblower at CCRMA - Jacktrip. Stanford, CA (USA). 23 April 2021.

Earth Day Art Model 2021. Thornblower at EDAM Festival. Indianapolis, IA (USA). 22
April 2021.

S.A.E. Livestream. Thornblower at Netty McNetface. Columbus, OH (USA). 06 April 2021.

2020 | Oct **"Into The Multiverse".** Thornblower at The Wexner Center for the Arts. 20 October 2020.

2019 | Sep **"Virtuoso Chances".** Andreas Weixler, Se-Lien Chuang, Marc Ainger, Ann Stimmson.
Pure Data, joyosc, and a PS4 Controller at ACCAD Motion Lab. Columbus, OH (USA). 23
September 2019.

Hijos de Distinta Madre

2020 | May **HDDM + ffddcchh (livestream).** Pure Data, joyosc, and a PS4 Controller at La Cúpula
Galería de Arte. Córdoba (Argentina). 09 May 2020.

2019 | Dec **HDDM + ffddcchh + Marmotas Dreams.** Pure Data, joyosc, and a PS4 Controller at
La Cúpula Galería de Arte. 21 December 2019.

HDDM + ffddcchh. Pure Data, joyosc, and a PS4 Controller at Casa Mandarina. Córdoba
(Argentina). 19 December 2019.

Mermetom + ffddcchh. Mermetom (Gustavo Alcaraz & Vero Guevara) and . Pure Data,
joyosc, and a PS4 Controller at La Cúpula Galería de Arte. 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 at NYU Waverly Labs r.220. New York
City, NY (USA). 19 June 2017.

April **"a.le.a".** Talea Ensemble. Midi controller and networked Laptops at The Dimenna Center for
Classical Music. 07 April 2017.

2016 | Nov **"Ciudad Invertida".** RAGE THORMBONES. Laptop at ShapeShifter Lab. New York City,
NY (USA). 22 November 2016.

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

LEIM Ensemble

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

Proyecto [Red] Ensemble

2016 | Aug	**"Canon".** Midi controller and Laptop at Centro Cultural Graciela Carena. New York City, NY (USA). 06 August 2016.
2012 | Nov	**Concert.** Piano at Auditorio CePIA. Córdoba (Argentina). 12 November 2012.
	Aniversario de la Facultad de Artes. Piano, Trumpet, Midi Controller at Auditorio CePIA. 01 November 2012.
September	**John Cage Festival.** Piano at Auditorio CePIA. Córdoba (Argentina). 05 September 2012.
August	**Bienal 2 de Composición e Investigación Musical.** Piano, Trumpet, Midi Controller at Auditorio CePIA. 23 August 2012.
June	**Alquimistas.** Piano at Aula Magna FCEFyN. Córdoba (Argentina). 29 June 2012.
	Concierto Final de Tesis. Piano at Auditorio CePIA. 12 June 2012.

2011 | Oct	**Ciencias Humanas.** Electric Guitar at Escuela Monserrat. Córdoba (Argentina). 20 October 2011.
September	**Micro-Simposio de Análisis Musical.** Piano at Aula Magna de la Facultad de Artes. 10 September 2011.
August	**Arte Forum 2: Hommage to Oscar Bazán.** Piano at Auditorio CePIA. Córdoba (Argentina). 18 August 2011.
July	**Winter Concert.** Electric Guitar, Piano at Auditorio CePIA. 10 July 2011.
2010 | Nov	**Summer Concert.** Conductor at Auditorio CePIA. Córdoba (Argentina). 20 November 2010.
July	**La Máquina de Tiempo.** Trumpet at Centro Cultural España Córdoba. 02 July 2010.

Other Roles

2021 | Oct	**"Untitled 2".** Ensemble Mise-En. Fixed Media at Mise-en Festival 2021. New York (USA). 05 October 2021.
June	**"The Woods".** Kyoung and Scott Swearingen. The Woods Audio at Currents New Media Festival 2021. Santa Fe (USA). 18 June 2021.
2020 | Jan	**"Climate Gathering".** Norah Zuniga Shaw. Max/MSP and Ipad at Movement Lab at Barnard College. New York City, NY (USA). 15 January 2020.
2012 | Mar	**Guest Pianist.** LAMOI. Piano at Paseo del Buen Pastor. Córdoba (Argentina). 10 March 2012.
2010 | Sep	**Inserto Beat.** Luisina Couto, Pablo Behm. Guitar at Cineclub Municipal Hugo del Carril. 18 September 2010.
March	**Guest Pianist.** Orquesta Sinfónica de Río Ceballos. Piano at Teatro Municipal. Río Ceballos, CBA (Argentina). 12 March 2010.

Other Skills

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**

Languages

- **Spanish** : Mother Tounge
- **English** : Advanced
- **French** : Intermediate
- **German** : Beginner, A2 Level. Currently Studying.