

## Federico Nicolás Cámara Halac

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### EDUCATION

**New York University**, New York, NY

PhD in Music Composition and Theory (Expected graduation date: May 2019)

Dissertation Title: *Database Multimedia Composition*

**Universidad Nacional de Córdoba**, Córdoba, Argentina

Licenciate in Music Composition, May 2012

Thesis Title: *A Form of Pleasure: Music as an Experience of Pleasure*

### DISSERTATION

**Title:** Database Multimedia Composition

**Advisors:** Jaime Oliver La Rosa, Elizabeth Hoffman

**Summary:** The constantly changing technological, social, and global context of today's "data revolution" has placed data at the center of media research. Accumulating in archives, or data-bases, data has allowed data-driven practices to emerge. In this dissertation, I understand, contextualize, and reveal music composition as a database practice. In resonance with the extensive literature on the intersection between music and computers, I situate this discussion within the question of the agency of technology in art. Because the existing literature on database practices is mainly visually oriented, I analyze this agency in terms of the relationship between image and sound, concluding that it is the use of the database what allows for new ways of thinking multimedia works of art. As an outcome of my dissertation, I propose an open-source library for multimedia composition combining computer vision and timbre analysis algorithms, in order to generate a joint database of image and audio descriptors suitable for live multimedia composition.

### RESEARCH

Database Multimedia Composition; Algorithmic Composition; Music Spatialization; Computer Music Techniques; Deterministic Systems; Pseudo-Random Generators; Computer Vision; Live composition; Generative Art; Pure Data and GEM (Graphical Environment for Multimedia); Digital Instrument Design; Writing externals for Pure Data and GEM

### PUBLICATIONS

*Article (published)*

**Open Space Magazine**

For Young Years: A Response To Elsa Justel's Marelle

Red Hook, NY

2018

*Lecture (read)*

**Delian Academy for New Music**

Composing Database: Opening A Space For The Concept Of An Anarchic Unwork Of Art

Mykonos, Greece

June 2018

*Paper (accepted)*

**International Computer Music Conference**

A Spectral Experience: Self Convolution And Face Tracking

Daeghu, Korea

August 2018

### OTHER SKILLS

**Languages:** English, Spanish, French (intermediate)

**Computer Languages:** Pure Data, C, C++, Bash, Web Audio API.

**Web Development:** HTML, CSS, PHP, JavaScript.

**Video/Audio Production Software:** Adobe Creative Suite, Max, Audacity, Csound

## TEACHING EXPERIENCE

<i>Course Assistantship</i> <b>Computer Music Techniques</b> Recitation lessons, some lectures, and grading.	FAS NYU Fall 2016
<i>Professorship</i> <b>Harmony and Counterpoint I</b> Syllabus, lectures, and grading.	FAS NYU Fall 2015
<i>Teaching Assistantship</i> <b>Harmony and Counterpoint II</b> Recitation lessons and grading.	FAS NYU Spring 2015
<i>Teaching Assistantship</i> <b>Harmony and Counterpoint I</b> Recitation lessons and grading.	FAS NYU Fall 2014
<i>Teaching Assistantship</i> <b>Composición Musical I</b> Recitation lessons, some lectures, and grading.	Facultad de Artes - UNC 2010-2014
<i>Teaching Assistantship</i> <b>Audioperceptiva I</b> Recitation lessons, some lectures, and grading.	Facultad de Artes - UNC 2007-2009

## HONORS AND AWARDS

<i>Dean's Dissertation Fellowship</i> <b>NYU GSAS</b> Nine-month stipend.	NYC - Berlin 2018
<i>GRI Fellowship</i> <b>NYU Global Research Initiatives</b> Research abroad.	Florence (2018) - Paris (2017) 2018 - 2017
<i>Student Senators Council</i> <b>NYU SSC</b> Conference travel grant.	Shanghai - China 2017
<i>Selected Works</i> <b>Fundación Destellos</b> "Ciudad Invertida" and "Venas" were awarded the "Selected Works" mention.	La Plata - Buenos Aires 2014 - 2015
<i>MacCracken Fellowship</i> <b>NYU GSAS</b> Full five-year long tuition and stipend award.	New York City 2013
<i>Programa Cuarto Centenario</i> <b>Universidad Nacional de Córdoba</b> Exchange at l'Université de Montréal to study C++.	Montréal - Canada 2012
<i>Orchestral Performance</i> <b>Universidad Nacional de Córdoba</b> Premiere of "Lagos" by Gonzalo Bustos and the Symphony Orchestra of the UNC.	Córdoba - Argentina 2011

## SELECTED PERFORMANCES

*Lorenz Variations*

Blacksburg - VA

**Cube Fest - Virginia Tech**

8/3/2017

Live electronics performance at The Cube, with a 149-speaker array and a stereo video projection.

*Electroacoustic Improvisations.*

NYU Waverly Labs r.220 - NYC

**Bages - Barros - Marti - Motl**

6/19/2017

Live electronics and visuals with Joan Bages i Rubi - Bernardo Barros - Kyle Motl - and Joan Marti Frasier

*a.le.a*

Dimenna Center - NYC

**Talea Ensemble**

4/7/2017

Live video and electronics premiere of “a.le.a” with Talea Ensemble. I performed MIDI controller and video projections under the direction of Jeff Means.

*Ciudad Invertida (2016)*

ShapeShifter Lab - Brooklyn

**PdCon16~**

11/22/2016

Live video and electronics performance of “Ciudad Invertida (2016)” with the trombone duo “Rage Thormbones.” The performance took place during the concerts of the 2016 Pure Data Convention (PdCon16~)

*sk*

Waverly Labs r.220 - NYU

**TAK Ensemble**

9/29/2016

Live video and electronics of the piece “sk” with New York-based Ensemble “TAK.” I performed with laptop and video projections.

*Canon*

CC Graciela Carena - Córdoba

**Proyecto[Red]Ensamble**

8/6/2016

Live performance with Pure Data and Arduino of the piece “Canon.” The piece was written for and performed by Córdoba-based ensemble “Proyecto[Red]Ensamble”

*INOPERA*

Dimenna Center - NYC

**Loadbang Ensemble**

4/20/2016

Live video and electronics of the piece “INOPERA” with New York-based ensemble “loadbang”. I performed with a MIDI controller, laptop and video projector.

*Ciudad Invertida (2015)*

Auditorio CePIA - UNC

**B3CIM**

8/20/2015

Live video and electronics premiere of the piece “Ciudad Invertida (2015)” with Rocío Elizalde and Manuel Pastrana during the Bienal 3 en Composición e Investigación Musical (B3CIM).

*Mise-En at German House*

German Consulate NYC

**Ensemble Mise-En**

2/6/2015

Live electronics performance of the piece “Venas” with New York-based Ensemble Mise-En’s Bass Clarinet player Samuel Marques

*Momenta Quartet Plays NYU Composers*

NYU Silver Center r.220

**Momenta Quartet**

4/21/2014

Live video and feedback performance of the piece “Talita” with New York-based string quartet “Momenta Quartet.”

*A Form of Pleasure*

CePIA and FCEFYn

**Universidad Nacional de Córdoba**

6/12/2012

Video performance of the Orchestral Premiere of “Lagos,” together with the premiere of the trio

“Piano, Bassoon and Guitar,” and of “A Time In Utopia” for choir and large ensemble conducted by Hernando Varela, with soloists from the choir of the Cantoría de la Merced.

*TSONAMI*

Recoleta Cultural Center - Bs.As.

**LEIM ENSAMBLE**

5/10/2011

Piano and analog synthesizer improvisations with LEIM Ensemble during the “TSONAMI Encuentro de Arte Sonoro y Nueva Música” in Buenos Aires.

## SELECTED COLLABORATIONS

*Installation: Hearing the Self*

Shanghai - China

**Xuhui Art Muesum - ICMC**

2017

“Hearing the Self: A Spectral Experience.” With mathematicians Dr. Matías Delgadino and Dr. Lucía Simonelli

*Theatre: Poroto*

Pabellón Azul - UNC

**Universidad Nacional de Córdoba**

2013

Electroacoustics for Celeste Lozada and Valentina Echeverría’s version of “Poroto” by Pavlovsky

*Opera: Los chicos de abril*

Rio Cuarto - Córdoba

**Teatro Municipal de Río Cuarto**

2013

Electronics for Luis Perez’s “Los chicos de abril” with Pablo Behm and Franco Pellini

*Film: Al Cielo o al Infierno*

Cines Gran Rex

**Lauro Racosky**

2011

Music for Lauro Racosky’s “Al Cielo o al Infierno.” Awarded Best Film Trailer at the Mar del Plata Film Festival.

## ADMINISTRATIVE EXPERIENCE

*PdCon16~*

New York City

**Pure Data Convention**

2016

Organizer, graphic designer, and webmaster.

*Waverly Project*

NYU GSAS

**New Music Organization**

2013-2017

Co-founder, Organizer, graphic designer, and webmaster.

*Proyecto[Red]Ensamble*

Universidad Nacional de Córdoba

**Contemporary Music Ensemble**

2010-ongoing

Co-founder, Organizer, performer, graphic designer, and webmaster.

*Bienal Composición Córdoba*

Universidad Nacional de Córdoba

**Music Composition Biennale**

2010-2012-2015

Organizer, graphic designer, and webmaster.