Federico Nicolás Cámara Halac

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POST-DOCTORAL EXPERIENCE

Ohio State University, Columbus, OH
Postdoctoral Scholar in Immersive Audio at the Advanced Computing Center for the Arts and Design (2019-2021)

EDUCATION

New York University, New York, NY
PhD in Music Theory and Composition, May 2019
Additional course work:
- Sound: Advanced Topics (Fall 2016), Columbia University

Universidad Nacional de Córdoba, Córdoba, Argentina
Licenciate in Music Composition, May 2012
Thesis Title: *A Form of Pleasure: Music as an Experience of Pleasure*
Additional course work:
- Computer Science (1 semester, 2022), FAMAF, UNC
- Visual Arts (1 semester, 2013) UNC

PhD DISSERTATION

Title: Database Music: A History, Technology, and Aesthetics of the Database in Music Composition
Advisor: Jaime Oliver La Rosa
Committee: Elizabeth Hoffman (NYU GSAS) - Martin Daughtry (NYU GSAS) - William Brent (American University) - Robert Rowe (NYU Steinhardt)

RESEARCH FOCUS

Database Music; Spatial Audio; Immersive Sound; Computer Music Techniques; Machine Learning; Sonification; Algorithmic Composition; Computer Vision; Digital Instrument Design; Networked Performance Music

SELECTED PERFORMANCES

Web Browser   International Computer Music Conference
Audience participation   07/25/2021

"1002": A Collaborative Networked Performance with CollidePd, a networked musical instrument that runs on any browser. It was made with Federico Ragessi and premiered by a live online audience.

Thornblower   Wexner Center - USA / ARG
Networked Performance Music   11/10/2020

With Elizabeth A Baker and the Sonic Arts Ensemble at OSU

Laptop performance of untitled2   Espacio B - Madrid
Sound Art Concert - Espacio B   3/4/2020

Performed next to Pedro Fragela at the Espacio B Madrid.

Max/MSP and Ipad   Movement Lab at Barnard College, NYC
CLIMATE GATHERING   1/15/2020

Residency at Barnard's Movement Lab in NYC with Livable Futures Now.

Tehran Intl. Electr. Music Festival   Tehran - IRAN
Say Under   9/4/2018

Video performance of video commissioned by the Off-Borders Festival for Electroactoustic music

Cube Fest - Virginia Tech   Blacksburg - VA
Untitled   8/3/2018

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

Delian Academy for New Music   Mykonos - GREECE
Untitled 2   6/10/2018

Live acousmatic performance at the Delian Academy for New Music.

Bages - Barros - Marti - Motl   NYU Waverly Labs r.220 - NYC
Electroacoustic Improvisations.   6/19/2017

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

Talea Ensemble   Dimenna Center - NYC
a.le.a   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.

PdCon16   ShapeShifter Lab - Brooklyn
Ciudad Invertida (2016)   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)

Loadbang Ensemble   Dimenna Center - NYC
INOPERA   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.

B3CIM   Auditorio CePIA - UNC
Ciudad Invertida (2015)   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).

Momenta Quartet   NYU Silver Center r.220
Momenta Quartet Plays NYU   4/21/2014
Composers
Live video and feedback performance of the piece "Talita" with New York-based string quartet "Momenta Quartet."

PUBLICATIONS / ARTISTIC RESEARCH

Conference Paper   SIGGRAPH
'The Woods:' A Mixed Reality   09 August 2021
Two-Player Cooperative Game.
Scott Swearingen, Kyoung Swearingen, Federico Camara Halac, Sruthi Ammannagari, and Matt Hall.

Conference Paper   ICMPC - ESCSM
Visual Cues as an Aid in the   28 July 2021
Auditory Stream Segregation of
Music
Samantha Burgess, Federico Camara Halac, and Daniel Shanahan.

Conference Paper   ICAD
DreamSound: Deep Activation   25 July 2021
Layer Sonification.
Federico Camara Halac and Matias Delgadino.

Conference Paper   Future Directions of Music Cognition
Comparing 'Goldberg Variations'   12 February 2021
using ML
(Accepted but not presented) Arturo Barrios, Leo A. Glowacki, Lindsay Warrenburg, and Federico Camara Halac

Conference Paper   International Computer Music Conference
A Spectral Experience: Self   11 October 2017
Convolution and Face Tracking
(Accepted but not presented)

Magazine Article   Open Space Magazine - Issue 21
'For Young Years:' A Response To   10 August 2017
Elsa Justel's Marelle
Spatial Performance Review

HONORS AND AWARDS

Postdoctoral Fellow   Ohio State University
Global Arts and Humanities Theme   2019-2021
Fully funded, 2-year postdoctoral research position.

Dean's Dissertation Fellowship   NYC - Berlin
NYU GSAS   2018
Nine-month stipend to finish the PhD dissertation.

GRI Fellowship   Florence (2018) - Paris (2017)
NYU Global Research Initiatives   2018 - 2017
Conduct research abroad in NYU's Paris and Florence campuses.

Student Senators Council   Shanghai - China
NYU SSC   2017
Conference travel grant to attend the 2017 ICMC in Shanghai, China.

Selected Works   La Plata - Buenos Aires
Fundación Destellos   2014 - 2015
"Ciudad Invertida" and "Venas" were awarded the "Selected Works" mention.

MacCracken Fellowship   New York City
NYU GSAS   2013
Five-year full tuition and stipend towards PhD completion.

Programa Cuarto Centenario   Montréal - Canada
Universidad Nacional de Córdoba   2012
Exchange at l'Université de Montréal to study C++

Orchestral Performance   Córdoba - Argentina
Universidad Nacional de Córdoba   2011
Premiere of "Lagos" by Gonzalo Bustos and the Symphony Orchestra of the UNC.

TEACHING EXPERIENCE

Workshop   FA UNC / CEEFAD UPC
Music in Pure Data   June/July 2022

Two Pure Data open workshops given in Cordoba, Argentina: 'Introduction to Computer Music Synthesis', and 'Algorithmic Composition'.

Masterclass   FA UNC
Spatialization / Software Design   May/June 2022

Two masterclasses given in Cordoba, Argentina: 'Spatialization techniques in Pure Data', and 'Software design applied to music composition in electronic and mixed music'

Professorship   School of Music - OSU
Computational Musicology   Spring 2021

Lectures, exercises, and grading. Co-taught with Prof. Dan Sullivan

Professorship   ACCAD OSU
Sonic Arts Ensemble   2019-2020

Lectures, concerts, and grading. Co-taught with Prof. Marc Ainger

Course Assistant   FAS NYU
Computer Music Theory and   Fall 2016
Techniques

Recitation lessons, some lectures, and grading. Co-taught with Prof. Jaime Oliver

Professorship   FAS NYU
Harmony and Counterpoint I   Fall 2015

Syllabus, lectures, and grading.

Teaching Assistant   FAS NYU
Harmony and Counterpoint I-II   2014 - 2015

Recitation lessons and grading.

Teaching Assistant   Facultad de Artes - UNC
Composition I - Aural Skills I   2007-2012

Recitation lessons, some lectures, and grading.

OTHER SKILLS

Languages: English, Spanish, French (A2), German (A2)

Computer Languages: C, C++, Bash, Python, JavaScript, Haskell, HTML, CSS

Computer Music Languages/Environments: Pure Data, Csound, SuperCollider, Max/MSP, Networked: AOO, Jacktrip, NettyMcNetface

Production Software: Ableton Live, REAPER, Adobe Creative Suite, Audacity,

ADMINISTRATIVE EXPERIENCE

Reviewer   International
NIME   2020-ongoing

Paper and Installation reviewer for the New Interfaces for Musical Expression conference.

Reviewer   Buenos Aires, Argentina
Atemporaneas   2019-ongoing

Music, and Installation reviewer for the Atemporaneas Music Festival

Reviewer   International
ICMC   2018-ongoing

Paper, Music, and Installation reviewer for International Computer Music Conference

PdCon16   New York City
Pure Data Convention   2016

Organizer, graphic designer, and webmaster for the Pure Data Convention

Waverly Project   NYU GSAS
New Music Organization   2013-17

Co-founder, treasurer, 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   2010-15

Organizer, graphic designer, and webmaster.