

Emir Chacra

Ph.D. student in Computer Music

M.S. in Applied Mathematics

www.emirchacra.com

ABOUT

<i>Full Name</i>	Emir Nicolás Chacra Garrido
<i>Birth</i>	1st of October, 1996
<i>Nationality</i>	Chilean
<i>City</i>	San Diego, California
<i>E-Mail</i>	echacra@ucsd.edu

EDUCATION

UC San Diego, Ph.D. in Computer Music 09/23 - Ongoing

Universidad de Chile, M.S. in Applied Mathematics 03/21 - 05/22

Grade: 6.8 out of 7.0 (GPA of 4.0). Graduated with honors.

Dissertation: “Optimization of the anisotropic elastic properties of a mechanical metamaterial for the design of wooden musical instruments”.

Advisor: Axel Osses.

Universidad de Chile, Mathematical Engineering 03/15 - 05/22

Grade: 7.0 out of 7.0 (GPA of 4.0). Graduated with honors.

RESEARCH EXPERIENCE

INRIA Chile, R&D Engineer 03/23 - 08/23

Advisor: Hugo Carrillo.

CMM, Universidad de Chile, Research Assistant 07/22 - 07/23

Advisor: Axel Osses.

CMM, Universidad de Chile, Research Assistant 01/21 - 03/21

Advisors: Jocelyn Dunstan, Alejandro Maass.

ALeRCE, Universidad de Chile, Research Assistant 04/19 - 12/19

Advisor: Francisco Förster.

PUBLICATIONS

Peer-reviewed journal articles

1. S. Gonzalez, **E. Chacra**, C. Carreño, C. Espinoza, “Wooden Mechanical Metamaterials: towards tunable wood plates”, *Materials and Design*, 221, 110952, 2022.

Conference proceedings

2. C. Espinoza, C. Carreño, **E. Chacra** and S. Gonzalez, “MetaWood: manipulation of the elastic properties of wood plates by periodic hole patterns”, 2022 Sixteenth International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials), 2022, pp. 139-141.

TEACHING EXPERIENCE

As an instructor

- UCSD/MACSD Audio Workshops: Beatmaking. (07/24 - 09/24)

As a teaching assistant

- UC San Diego:
 - MUS 172: Computer Music II. Spring 2024 (1 quarter).
 - MUS 171: Computer Music I. Fall 2023, Winter 2025 (2 quarters).
 - MUS 170: Art of Sound. Fall 2024 (1 quarter).
 - MUS 17: Hip Hop. Winter 2024 (1 quarter).
- Universidad de Chile:
 - Probability and statistics. Fall 2020, Fall 2022, Spring 2022 (3 terms).
 - Numerical analysis of partial differential equations. Fall 2022, Fall 2021 (2 terms).
 - Probability and statistics in Data Analysis. Fall 2019 (1 term).
 - Statistics. Spring 2018 (1 term).

As a guest speaker

- Talk and workshop: *What should I do to start designing software or hardware digital audio effects?*. Sound Department, Universidad de Chile. Dec 2024.

MUSIC PRODUCER EXPERIENCE

early riser - monocromo (EP)	11/24
Producer as <i>monocromo</i> and mixing engineer as <i>Emir Chacra</i> .	
Panoramas - monocromo (LP)	06/23
Producer as <i>monocromo</i> and mixing engineer as <i>Emir Chacra</i> .	
Ambientes - monocromo (EP)	11/22
Producer as <i>monocromo</i> and mixing engineer as <i>Emir Chacra</i> .	
Neonatología - Nuevalengua (LP)	08/18
Co-Producer as <i>Emir Chacra</i> .	

BASSIST EXPERIENCE

monocromo	01/22 - Ongoing
Recordings: Ambientes EP (Nov 2022).	
Nuevalengua	05/16 - 09/18
Recordings: Neonatología LP (Aug 2018).	
Live performances: Converse Bold Park (2016), Festival Walén (2016), Nuevalengua at Goodstock Bar (2017), Nuevalengua at “La Casa del Sol” (2018).	

PERSONAL SKILLS

<i>Programming</i>	Python (Advanced)
	C++ (Moderate)
	Git (Moderate)
	Matlab (Moderate)
<i>Audio software</i>	Pd (Advanced)
	Max MSP (Moderate)

<i>Languages</i>	Spanish (Native proficiency)
	English (Full professional proficiency)
	French (Elementary proficiency)
	Portuguese (Elementary proficiency)