

Nelly Garcia Sihuay






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London, United Kingdom

Research scientist specializing in sound synthesis and optimization of sound design, with expertise in crafting and manipulating sound effects to enhance audience engagement. Skilled in exploring sound aesthetics and audience response to elevate the auditory experience through advanced techniques.


EXPERIENCE

- **Nemisindo**April 2025 - Present
London, U.K
Research Assistant
 - Increase the quality of the procedural audio engine models.
 - Creation of demos and marketing promos for social media.
- **Kew Gardens**June 2023 - September 2024
London, U.K
Catering Assistant
 - Part of the hospitality team in the family kitchen. Provide customer service and attention.
- **Nemisindo**November 2022 - February 2024
London, U.K
Contractor
 - Developed standalone 'Stutter' application, implementing low- and high-pass filters, delay, and reverb effects.
 - Calibrated headphone loudness levels to optimize accuracy of online hearing tests.
- **Queen Mary University of London** January 2023 - Present
London, U.K
Demonstrator
 - Engineering skill and practice: Guided students in circuit modeling, simulation, and prototyping, utilizing both bench-top and virtual instruments.
 - Digital circuit design: Instructed on digital logic theory and foundational techniques in digital circuit design.
 - Professional research and practice: Facilitated student engagement with industry debates and supported development of key professional and academic skills.
 - Sound design: Introduced sound synthesis and signal processing principles for sound design in digital audio workstations.
 - Music and audio programming: Taught principles of music and audio programming, focusing on real-time DSP for embedded hardware.
- **Thousand Eyes(Part of Cisco)**July 2022 - October 2022
Mexico City
Engineer
 - * Consulting Engineer: Deployed network solutions and provided user training and troubleshooting as a consulting engineer.

EDUCATION

- **Queen Mary University of London**October 2022 - Present
London, U.K
PhD-Centre for Digital Music- Funded by Fundación Politécnico
 - * Thesis: An investigation of realism in sound design.
- **Instituto Politécnico Nacional**Aug 2015-Aug 2019
Mexico City, Mexico
Engineering in communications and electronics
 - * Thesis: 'Analysis of immersive sound design in 5.1 surround sound.'
 - * Specialty: Acoustics.
 - * Grade: 88.89%

TALKS

- **Skill building set: "AI tools for sound design: emotional music and sound effects in visual media":**October 2024
Tools: Nemisindo, Reaper, LFTS and MALT 

PUBLICATIONS


C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [C.1] Garcia-Sihuay, Nelly; Zong, Yisu; Reiss, Joshua; **Discerning real from synthetic: analysis and perceptual evaluation of sound effects** [PDF]; Queen Mary University of London; Paper 10; April 2024. . In *AES-Audio for games, Tokyo. Japan*.
- [C.2] Zong, Yisu; Garcia-Sihuay, Nelly; Reiss, Joshua; **A Machine learning method to evaluate and improve sound effects synthesis model design** [PDF]; Queen Mary University of London; Paper 2; April 2024. . In *AES-Audio for games, Tokyo. Japan*.
- [C.3] Crocker, Ruby; Garcia-Sihuay, Nelly; Reiss, Joshua; Fazekas, George; **The sound of storytelling: An exploratory study of sound design and music in film drama** [PDF]; Queen Mary University of London; Paper 302; October 2024 In *AES-New York Convention, New York USA*..
- [C.4] Garcia-Sihuay, Nelly; Reiss, Joshua; **Sound effects in media: A comparative analysis of recorded and synthetic samples in live-action and animation** [PDF]; Queen Mary University of London, Centre for Digital Music; Paper 302; November 2024 In *EAI ArtsIT - New York University of Abu Dhabi*, .
- [C.5] Garcia-Sihuay, Nelly; Reiss, Joshua; **6KSFX- SynthDataset** [PDF]; Queen Mary University of London, Centre for Digital Music; ArXiv; 2025.

SKILLS

- **Programming Languages:** Python, C++, Javascript.
- **DAWS:** ProTools, Reaper and Ableton.

HONORS AND AWARDS

- **Demonstrator of the year** July 2024
Queen Mary University of London- 
 - * Recognized as a top laboratory demonstrator in 2023 for exceptional support and guidance to undergraduates in practical sessions.

INTERNSHIPS/VOLUNTEERING

- BASE - Volunteer Training Program March 2025-Present
 - * Receptionist. Help with the organization and control of the dance studio.
- At your Beat (AYB) - Receptionist September 2024 - February 2025
 - * Handled social media updates and studio recordings to promote brand engagement.
- The Hub - Receptionist September 2023 - August 2024
 - * Provided desk service and managed social media content at a dance studio.
- LomasPost - Audio Trainee August 2019 - February 2020
 - * Supported sound design for marketing promos, including voiceovers, effects, and audio mixing.
 - * Conducted voice, sound effects, and dubbing recordings for multimedia content.
- Fonobox - Audio Trainee September 2018 - July 2019
 - * Assisted with audio equipment setup and operation for recording sessions.
 - * Managed audio quality control and participated in sound editing.

CERTIFICATIONS

- **Certified in Dante Level 1 for audio networking proficiency.** October 2024

ADDITIONAL INFORMATION

Languages: Fluent in English (IELTS C1), conversational in French (DELTA B1), native in Spanish.

Aptitudes: Teamwork, resilience, stress management, proactivity, attention to detail, analytical thinking, problem-solving, adaptability, effective communication.