ICFO

SEMINAR | A short introduction to Quantum-computing Aided Composition: Theory and Practice

OCH (OMAR COSTA HAMIDO)

June 02, 2025
12:00 to 13:00
Blue Lecture Room

ABSTRACT:
In this talk I will present my research and creative work on Music and Quantum Computing. I'll include a brief personal and historical overview, explaining the context of this emerging field and its community of practice. On my quest to define a Quantum-computing Aided Composition (QAC), I developed a toolkit for musicians and artists to build, run, and simulate quantum circuits, that I will demonstrate live in this presentation, along with a quick overview of how to engage with the Community.?

BIO:
OCH is a performer, composer, and technologist, working and teaching on music and quantum computing, telematics, multimedia, and improvisation. He earned his PhD at UC Irvine (USA) with the pioneering work in Music and Quantum Computing "Adventures in Quantumland" (quantumland.art). He also earned his MA at ESMAE-IPP (PT) with his research on the relations between music and painting, and currently he is a Marie-Curie Fellow with the project IIMPAQCT at University of Coimbra (PT). OCH has numerous software tools and relevant academic publications, and he has presented his music and research at international venues such as NYCEMF, NIME, IRCAM, Splice, Audio Mostly, and MCM. In recent years, his work has been recognized with grants and awards from MSCA, Fulbright, FCT, Medici, Beall Center for Art+Technology, and IBM. omarcostahamido.com

Hosted by: Prof. Dr. Maciej Lewenstein