

JOSEPH A. MARIGLIO III

ARTIST — INVENTOR — EDUCATOR
WWW.JOEMARIGLIO.COM

JUNE, 2014

EDUCATION

PhD in Computer Music, 2015, UCSD (Advancement to Candidacy: 01/2014)

MA in Interactive Telecommunications, 2009 NYU

BA in Music Composition, Wesleyan University

SKILLS

Software: C/C++ , Octave / Matlab, R, JAVA, Python, Assembly, OSX, Unix, Linux, and Windows environments

Electrical: Analog, Mixed Signal, Microprocessors (ARM, AVR, PIC, BASIC)

Design: CAD (Eagle, Solidworks, Blender), Photoshop / GIMP, Illustrator / Inscap

Audio: DAW (Protools, Logic, Cubase, Ardour, DP), Sound Reinforcement, Tracking, Mixing, Mastering, Computer Music (Supercollider, Puredata)

RESEARCH INTERESTS

Real-time DSP, Time-Series Modeling and Prediction, Dimension Reduction, Acoustics, Optical Vibrometry, Wavefield Synthesis and Analysis, MIMO Adaptive Filterbanks, Kernel Methods, Machine Learning, Stochastic Modeling, Embedded Computing, Mixed Signal Circuit Design, Transducer Arrays, Community-Based Art, Constructionist Education, Sound Sculpture, Public Art

INDUSTRY EXPERIENCE

CHIEF TECHNICAL OFFICER, ALGO TRADING INC, SAN DIEGO, CA, 2014-PRESENT

Designing ground-breaking time-series prediction algorithms for statistical arbitrage. Leading a team of developers for implementation.

STAFF RESEARCHER, I.D.E.A.S., SAN DIEGO, CA, 2013-PRESENT.

Creating novel real-time DSP algorithms for multichannel and binaural acoustic modeling. Spearheading research and assesment techniques.

AUDIO ENGINEER, GREENPOINT SOUND LLC, BROOKLYN, NY, 2009-2010.

Specialized in Repairs, Custom Work, Installation, Mixing, Tracking

PRO AUDIO TECHNICIAN, FREELANCE, NEW YORK, NY, 2008-2010.

Consulted on and implemented audio electronics projects for clients.

NEW MEDIA CONSULTANT, HARVESTWORKS, NEW YORK, NY, 2009-2010.

Oversaw completion of multimedia projects.

LIVE SOUND ENGINEER, STUDIO B, NEW YORK, NY, 2009-2010.

Provided clear and reliable Front-of-House and Monitor mixes for an active venue.

NEW MEDIA CONSULTANT, NYU, NEW YORK, NY, 2007-2009.

Guided artists on the completion of multimedia projects.

TEACHING EXPERIENCE

Associate, UCSD:

Music 170: Musical Acoustics, UCSD Fall 2014

Music 6: History of Electronic Music, UCSD Summer 2014

Music 6: History of Electronic Music, UCSD Summer 2013

Apprentice Teacher, UCSD: Fall, 2010 - Present.

Music 6: History of Electronic Music; **Music 7:** Music, Science & Computers; **Music 170:** Musical Acoustics; **Music 171/2:** Computer Music I & II; **Music 173:** Mixing & Editing; **Music 174:** Audio & MIDI Studio Techniques I-III; **CAT 125:** Universal Language Orchestra

COSMOS CLUSTER 9: MUSIC TECHNOLOGY, SAN DIEGO, CA, SUMMER 2014.

Developed a music technology and acoustics curriculum for high school students. Introduced students to Raspberry Pi, Littlebits, Puredata, Python, and Arduino. Led students in designing a public art installation at Media Arts Center, San Diego.

CREATIVE ELECTRONICS WORKSHOP, NEWCASTLE, NSW, AUSTRALIA, FALL 2011.

Designed and fabricated electronics kits for creating algorithmic music. Led a hands-on workshop introducing audio electronics to university students.

UNIVERSAL LANGUAGE ORCHESTRA, SPRING VALLEY, CA, 2010-PRESENT.

Co-founded and ran a children's experimental music ensemble for 8-12 year-olds. Designed several musical instruments and curricula for the ensemble. Sourced financial support for the project through grants.

CMOS MUSIC WORKSHOP, UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA, SPRING 2011.

Taught an introductory electronic music workshop for college students, building musical circuits using CMOS logic gates.

KIDS AND CONTACT MICS WORKSHOPS, INTERNATIONAL COMPUTER MUSIC CONFERENCE, MAY 2010.

Taught 6-12 year olds about basic acoustics. Performed with the students at the Tank in NYC.

KIDS' ELECTRONIC MUSIC WORKSHOPS, UNSOUND FESTIVAL, NEW YORK, NY, 2010.

Taught 6-12 year olds about basic acoustics. Performed with the students at Le Poisson Rouge, NYC

TEACHER / CONSULTANT, HARVESTWORKS, NEW YORK, NY, 2010.

Taught classes on Arduino, Processing, and Supercollider to artists.

GRANTS & AWARDS

UCSD Music Department TA of the Year Award, 2014.

University of California Institute for Research in the Arts Implementation Grant, 2012.

UCSD Music Department TA of the Year Award, 2011.

Electrofringe International Artist Grant, 2011.