

EDUCATION

New York University, Steinhardt, *Masters of Music Technology*, Dec 2013, GPA 3.43

Thesis: *A New Technique for Capturing True Coincidence in Ambisonic Microphone Arrays*

Coursework: Digital Signal Theory, Digital Audio Processing, C Programming for Music Technology, Audio Codec Design, 3D Audio, Electronics by Computer Simulation, Advanced Audio Production, Advanced Musical Acoustics, Java Music Systems, Audio for Video, Game Audio, Advanced Orchestration, Computer Music Composition, Music Theory and Aural Skills

Oberlin College, Oberlin, OH, *Bachelor of Arts*, 2006

EMPLOYMENT

Graduate Research Assistant, Sound Designer, *Medical Imaging Sonification Project*, NYU Steinhardt, Feb 2013 - Current

- Sponsored by the NYU-Health and Hospitals Corporation (HHC) Clinical and Translational Science Institute (CTSI), the goal of this research project is to explore sonically the vast data sets yielded from medical imaging technologies such as PET scans, to aid in diagnosing diseases such as Alzheimer's. My chief task involved designing the audio from these complex data sets, using algorithmic composition, computer programming, digital signal processing, psychoacoustics, and 3D audio principles.

Live Sound Engineer, Complete Music Studios, Brooklyn, NY, 2010 – 2011

- Soundboard engineer running live sound for Top 40 performing artists' rehearsals.

Guitar Instructor, New York, NY, 2010 – 2011

- Private instruction in music theory and instrument technique in rock and jazz - beginners to intermediate.

The New-York Historical Society, Museum Education Department, 2006 – 2010

School Programs Associate, 2007 - 2010

- My primary duty was that of database administration: managing the online database, calendar and booking system for all school tours, teacher workshops, and education events. While there, I assisted in a complete overhaul and reorganization of this multifaceted computer system.
- Provided training and technical support to all system users: teachers, educators, and staff members.
- Managed department's high school and college interns.

Floor Manager and School Group Educator, 2006 – 2007

- Supervised the scheduling and training of educators. Acted as department liaison to public groups.
- Developed and led student tours and programs for critically acclaimed exhibitions; *New York Divided* (2006-07), *Grant and Lee in War and Peace* (2008-09), and *Lincoln in New York* (2009-10).

SKILLS

- **Programming Languages:** MATLAB, C, Java, HTML, CSS, JavaScript, Csound, SuperCollider, Pure Data, MIDI, OSC, Unreal Script, Wire, JSyn API, JMSL API, Web Audio API
- **Software:** Logic Pro, Ableton Live, Pro Tools, Audacity, Reaper, FMod, Finale, Sibelius, Unreal Development Kit, Final Cut Studio
- **Live Sound, Post Production and Audio Engineering:** Yamaha, SSL, API consoles, outboard gear, sound reinforcement acoustics, stereo and surround mixing hardware and software, modular synthesis
- **Performer, musician, guitarist, multi-instrumentalist**
- **Songwriter, composer, arranger and orchestrator for TV/video**, see portfolio

PUBLICATIONS AND CONFERENCE PRESENTATIONS

- *Sonification Method To Enhance the Diagnosis of Dementia*, A. Rogniska, H. Mohanraj, J. Keary, and K. Friedman. International Conference on Auditory Display (ICAD). New York, NY, June 2014.
- *Sonification Method To Enhance the Diagnosis of Dementia*, Conference Presentation at the International Conference on Auditory Display (ICAD), New York, NY, June 2014.
- *A New Technique for Capturing True Coincidence in Ambisonic Microphone Arrays*, Masters Thesis, New York University Steinhardt, New York, NY, January 2014.

MUSIC, MULTI-MEDIA PRODUCTIONS AND SELECT PERFORMANCES

- *The Four Stages*. Sonifications of PET Scan brain radiation depicting the 4 stages of Alzheimer's Dementia, Medical Imaging Sonification Project, New York University Steinhardt, Music Technology Department. Released at www.soundcloud.com/sonisounds [Digital]. 2014.
- *I Could, I Could* [Song]. Miniboone. Music Video directed and produced by Pat Breen, Garbage-Town Productions, Brooklyn, NY: Released by Miniboone LLC [Digital]. 2014.
- Miniboone. Record Release Performance at the Mercury Lounge, New York, NY. September 6th, 2013.
- *Miniboone* [Record]. Miniboone. Long Play recording recorded and produced by Travis Harrison, Serious Business Records, New York, NY: Release by Ernest Jennings Record Company [Digital, CD, Vinyl]. 2013.
- Miniboone. Performances at the CMJ Music Marathon Festival, New York, NY. 2010 - 2013.
- *Man/Woman* [Song]. Miniboone. Used in the soundtrack of the feature film *Locked in a Garage Band*. Elgin Road Productions. September 2012.
- *Brand New Thing* [Song]. Miniboone. Music Video directed and produced by Pat Breen, Garbage-Town Productions, Boston, MA: Released by Miniboone LLC [Digital]. 2012.
- Miniboone. Performance at the Alive@Five Concert Series, Stamford, CT. Opened for the B-52s. August 4th, 2011.
- Miniboone. Performance at the Music Hall of Williamsburg, Brooklyn, NY. Opened for Art Brut. June 23, 2011.
- Miniboone. Performances at the Bonnaroo Music Festival, Manchester, TN. Performance dates: June 10th and 11th, 2011.
- *On MiniBoone Mountain*. Miniboone. Extended Play recording recorded and produced at Cannon Found Soundation, Union City, NJ: Released by Drug Front Records [Digital, CD]. 2011.

- Miniboone. Performances at the South by South West Music Festival, Austin, TX. March, 2011.
- *The Other Summer* [Record]. Miniboone. Single recorded and produced at Cannon Found Soundation, Union City, NJ: Released by Drug Front Records [Digital, Vinyl]. 2011.
- *Cool Kids Cut Out of the Heart Itself* [Song]. Miniboone. Music Video directed by Jesse Garrison, edited by me, produced by Miniboone and Drug Front Records, Brooklyn, NY: Released by Miniboone LLC [Digital]. 2010.
- *Big Changes* [Record]. Miniboone. Extended Play recording recorded and produced at Cannon Found Soundation, Union City, NJ: Released by Drug Front Records [Digital, CD]. 2010.
- *CineMassive Displays Commercial*. Composition and Sound Design. CineMassive Displays, Atlanta, GA. September 2009.

SELECT CRITICAL ACCLAIM AND AWARDS

- *On the Verge: Miniboone*. Relix Magazine. June 3rd, 2011 issue.
- *Second Stage: Miniboone*. NPR's All Songs Considered. July 7th, 2010.
- *Yes In My Backyard: Download MiniBoone's New-Waving, Arcade Fire-Vibing "Devil In Your Eyes"*, Christopher Weingarten. The Village Voice. Feb 9th, 2010.
- *8 NYC Bands You Need to Hear*. The L Magazine. March 23rd, 2010 issue.

PROFESSIONAL ASSOCIATIONS AND ORGANIZATIONS

- Audio Engineering Society, Associate Member, April 2014 - Present.
- SESAC Performance Rights Organization, Songwriter and Music Publisher, Affiliate. February 2010 - Present.
- Miniboone LLC, Founding Member. January 2009 - January 2014.

References available upon request