

EDUCATION

New York University, Steinhardt, *Masters of Music in 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 and Sound Designer, NYU Steinhardt, *Medical Imaging Sonification Project*, 2013 - Current

- Devised and prototyped different sonification methods based on research in the medical and sonification fields. Programmed algorithms that generated audio from these large 3D data sets.
- Developed and designed interactive audio software with graphical user interface to sonify large brain scan data sets received from NYU Langone Medical Center's Positron Emission Tomography (PET) scanners.
- Prepared, managed and enacted testing on audio and medical experts to understand if or sonification methods aided doctors in the diagnosis of Alzheimer's dementia.

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

- Shaped and mixed live sound, operated complex sound reinforcement systems for rehearsals of Top 40 and critically acclaimed performing artists.

Guitar Instructor, Freelance, New York, NY, 2010 – 2011

- Instructed beginner to intermediate players on music theory and instrument technique in rock and jazz guitar.

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

School Programs Associate, 2007 - 2010

- Maintained online database, calendar and booking system for all school tours, teacher workshops, and education events. Designed updates and expanded this multifaceted computer system. Provided training and technical support to all system users: teachers, educators, and staff members.
- Managed department's College and High School 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).

TECHNICAL SKILLS

- **Programming Languages:** Java, C, MATLAB, HTML, CSS, JavaScript, Csound, SuperCollider, Pure Data, Unreal Script
- **Software Tools, APIs and Protocols:** Xcode, Git, Unix Shell, Eclipse, JQuery, Bootstrap API, JSyn API, JMSL API, Web Audio API, MIDI, OSC and Internet Protocols
- **Audio and Video Software:** Logic Pro, Ableton Live, Pro Tools, Audacity, Reaper, FMod, Finale, Sibelius, Unreal Development Kit, Final Cut Studio
- **Audio Hardware:** Yamaha, SSL, API mixing consoles, outboard gear, patch bays, sound reinforcement systems, modular synthesizers

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.

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- 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* [Magazine Article]. Relix Magazine. June 2011 issue.
- *Second Stage: Miniboone* [Radio Piece]. NPR's All Songs Considered. July 7th, 2010.
- *Yes In My Backyard: MiniBoone* [Blog Column]. Christopher Weingarten, The Village Voice. February 2010 issue.
- *8 NYC Bands You Need to Hear* [Magazine Article]. The L Magazine. March 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