

James P. Keary

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Portfolio at www.jameskeary.com

EDUCATION

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

Coursework: C Programming for Music Technology, Java Music Systems, Digital Signal Theory, Audio Codec Design, 3D Audio, Game Audio, Electronics by Computer Simulation

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

SKILLS

- **Programming:** 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, songwriter, composer, arranger and orchestrator for TV/video**, see portfolio

EMPLOYMENT

Graduate Research Assistant, 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 interactive software to map parts of these complex data sets to audio parameters, using GUI design, digital signal processing, algorithmic composition, psychoacoustic and 3D audio principles.

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

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

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).

PUBLICATIONS AND CONFERENCE PRESENTATIONS

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

References available upon request