

James P. Keary

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Portfolio at www.jameskeary.com

EDUCATION

New York University, Steinhardt, M.M., Music Technology, Dec 2013, GPA 3.43

32 credits of Computer Science coursework: C Programming, Java, Digital Signal Theory, Audio Codec Design, Digital Audio Processing I & II, Electronics by Computer Simulation, 3D Audio

Oberlin College, Oberlin, OH, B.A., 2006

TECHNICAL SKILLS

- **Programming Languages:** Java, HTML, CSS, JavaScript, C, MATLAB, 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

EMPLOYMENT

Research Programmer, NYU Steinhardt, Medical Imaging Sonification Project, 2013 - 2014

- 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.
- 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.
- Prepared, managed and enacted testing on audio experts and doctors 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.

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).

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, 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