

# James P. Keary

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Portfolio at [www.jameskeary.com](http://www.jameskeary.com)

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## EDUCATION

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

*Coursework:* Advanced Orchestration, Computer Music Composition, Java Music Systems, Advanced Audio Production, Game Audio, Audio for Video, 3D Audio, C Programming for Music Technology, Audio Codec Design, Digital Audio Processing, Music Theory, Aural Skills

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

## SKILLS

- **Songwriter, composer, orchestrator, performer, musician, guitarist**, see portfolio website CV for credits
- **Software Tools:** Logic Pro, Ableton Live, Pro Tools, Audacity, Reaper, FMod, Finale, Sibelius, Garritan, Unreal Development Kit, Final Cut Studio, Xcode, Git, Unix Shell, Eclipse
- **Hardware Tools:** mixing consoles, outboard gear, patch bays, sound reinforcement systems, modular synths
- **Languages, APIs and Protocols:** MATLAB, C, Java, HTML, CSS, JavaScript, Csound, SuperCollider, Pure Data, Unreal Script, JQuery, MIDI, OSC and Internet Protocols

## EMPLOYMENT

**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).

## 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*