

Victor Shepardson

victor-shepardson.github.io

Artist /
Developer /
Researcher

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Tools

Audiovisual

Creative coding e.g. openFrameworks, Processing; music DSP & DAW inc. Max, Pd, Reaktor, Live, Reaper, SuperCollider; video editing e.g. Adobe Ae/Pr; OpenGL

Machine Learning, MIR & Data Science

Jupyter, TensorFlow, MATLAB

General Computing

C++, Python, Javascript, Haskell; Amazon Web Services; Git; UNIX

Education

Dartmouth College / M.A. Digital Musics

September 2014 - June 2016, Hanover, NH

Course work including computer music composition, animation, psychoacoustics, music information retrieval, machine learning and deep neural networks.

University of Virginia / B.A. Computer Science

August 2010 - May 2014, Charlottesville, VA

With highest distinction, Phi Beta Kappa. Undergraduate thesis on procedural texture synthesis in computer graphics. Course work including computer graphics, computer music, and programming languages.

Master's Thesis

ABSTRACT/CONCRETE: An Audiovisual Synthesizer.

Professor Michael Casey, Associate Professor Jodie Mack, and Assistant Professor Ashley Fure

This thesis presents original work in generative audio-video. In it I describe the theory and implementation of a software synthesizer called ABSTRACT/CONCRETE, in which high resolution digital video feedback is coupled to an audio-rate multi-agent system and exposed to interactive control. I present *AVFB#3* and *CHERUB* as fixed works derived from interaction with the system.

Work Experience

Freelance / Developer

2014 - Present

Developed a telephony system for live musical performance using Amazon web services and Twilio. The system was commissioned by Nathan Davis for the piece *a Sound uttered, a Silence Crossed* (2014). Also licensed generative video software to Gravity Current for *synesthesia.live*.

Dartmouth College / Teaching Assistant

2015 - 2016, Hanover, NH

Graded assignments for Machine Learning with Lorenzo Torresani. Held office hours and provided Ableton Live support for Introduction to Sonic Arts with Ashley Fure. Set up and ran equipment for numerous musical performances.

University of Virginia / Teaching Assistant

2012 - 2014, Charlottesville, VA

Graded and ran labs for Computer Architecture with John Stankovic. Graded for Discrete Math with Hamed Soroush. Graded and held office hours for Algorithms with Abhi Shelat and Computer Graphics with Luther Tychonievich.

Arqball, LLC / Research Intern

Summer 2013, Charlottesville, VA

Researched algorithms for editing 360° product photography and developed a web application using Google's native client platform.

Presentations & Performances

Musical Metacreation Workshop at ICCC / Demonstration

June 2016, Paris, France

Audiovisual Synthesis with ABSTRACT/CONCRETE

DAX 2016 / Installation

May 2016, Hood Museum, Dartmouth College

Halting Problem for Turing machines, TVs and speakers

International Computer Music Conference / Composition

October 2015, Denton, TX

Studies In Being Alive I-III for fixed media.

DAX 2015 / Installation

May 2015, Dartmouth College

Living Lattice for digital video feedback.

Contemporary Music Ensemble / Performer

2014-2016, Dartmouth College

Performances in and around Dartmouth's contemporary music ensemble at venues including Spectrum NYC and Dartmouth's EYEWASH series and New Music Festival.

Solo / Performer

2013 - Present

Musical performance and video projection at venues including Out of the Blue Too Gallery in Cambridge, MA and Twisted Branch Tea Bazaar in Charlottesville, VA.