LLOYD MAY

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EDUCATION

DARTMOUTH COLLEGE HANOVER, NH

Masters of Arts (MA), Digital Musics, June 2020

Bachelor of Engineering (BE), Analytical Engineering (Honors), 2018

Bachelor of Arts (BA), Engineering Science and Economics, 2018 **GPA: 3.50**

Coursework Highlights: Musical Systems, Deep Learning, Cognitive Musical Neuroscience, Game Design

PROJECT EXPERIENCE

NEURORACK ***April 2019 - Present***

Project Lead, ***Cognitive Musical Neuroscience***

- Co-designed and conducted a series of experiments to decode imagined sound from neural signals
- Implemented a behavioral evaluation task to better ascertain the efficacy of decoding

TEMPEST ***Sept. 2019 – Present***

Project Manager, ***Acoustic Simulation***

- Lead a small team of programmers in designing and evaluating a ray tracing algorithm to rapidly simulate the sonic behaviors of solid materials in Rhino
- Evaluated the algorithm through a comparison of the simulated audio against a 48-channel recording of an exemplar physical scene

SYRINX & BLIKSEM ***June 2016 – May 2019***

Product Design Engineer, ***Musical Instrument Design***

- Co-designed, prototyped and mathematically modeled Syrinx, a novel acoustic synthesizer implementing controlled nonlinear acoustic synthesis
- Optimized the technology for application as a fuzz pedal through iterative user testing

LODU ***Jan. 2019 – Present***

Game Designer, ***Sound Art Game System***

- Created a novel system for interactive exploration of the physical nature of sound
- Presented the system at the SHIFT arts festival and scheduled to showcase at the Boston Festival of Indie Games (BFIG)

PUBLICATIONS

"BLIKSEM: An Acoustic Synthesis Fuzz Pedal ", **May**, Topel
19th Annual Symposium for New Interfaces for Musical Expression (NIME), 1st June 2019

"Nonlinear Acoustic Synthesis in Augmented Musical Instruments", Chang, **May,** Topel
17th Annual Symposium for New Interfaces for Musical Expression (NIME), 15th May 2017

"Dust", Multi-Channel Fixed Media Audio, **May**
Society of Electro-Acoustic Music in the United States, 22nd March 2019

"Familiar Feelings: Listener-rated Familiarity in Music Emotion Recognition", **May**, Casey
12th International Workshop on Machine Learning and Music, 16th Sept. 2019 (Accepted)

"Jittered Grooves: Micro-timing Burial's *Archangel*", **May**
Rhythm in Music Since 1900, 22nd November 2019 (Accepted)

"Towards A Rapid Breath-Based Diagnostic for Pulmonary Tuberculosis in Pediatric Patients", **May**, Hill
Analytical Engineering Honors Thesis, Thayer School of Engineering, 3rd June 2018

AFFILIATIONS

Dartmouth Track and Field (D-I Sprinter**,** 3 time all-Ivy League Medalist) **Sept 2014 – June 2018**

Chi Gamma Epsilon Fraternity (Academic and brotherhood chair) **Sept 2015 – June 2018**

SKILLS & EXPERTISE

- Python, R, Reaper, Ableton, Max MSP, Matlab, Solidworks, Rhino
- Fluent in English and Afrikaans