

# James Wenlock

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## Education

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**University of Washington, Seattle WA**

**Major:** Computational Auricular Acoustics

**Minor:** Digital Arts

**Class:** 2020 | **GPA:** 3.74

### Relevant Coursework

Sound in Space | DXARTS 567

Digital Sound | DXARTS 460, 461, 462

Mechatronics | DXARTS 470, 471, 472

Computer Programming | CSE 142, 143

Data Structures and Algorithms | CSE 373

Programming Concepts and Tools | CSE 374

Nature of Sound | SPHSC 261

Hearing Science | SPHSC 461

## Press

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Seattle Times: Meet the Encephalophone

Vice: This instrument turns brainwaves into music

The Stranger: Trippy Light Installation is Like Being Inside Carl Sagan's Brain

City Arts Magazine: Maja Petric's installation at madart transports us to the stars

DR1: Simon's Superpowers

The Stranger: Machines of Survival

# Skills

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## - Software (Adept) -

*Supercollider, Reaper, Ambisonic Toolkit (ATK), Java, Arduino, Processing, Adobe Audition, FI Studios*

## - Software (Familiar) -

*C, Linux, Bash, C++, Python, GitHub, HTML5, CSS, JQuery, Javascript, Bootstrap, Matlab, EEGStudio, Photoshop, Pixlr, Digital Performer, Logic, Pro Tools, Audio Finder, Final Cut, Ableton Live, Lightroom, Aperture, Photokey 8*

## - Digital Signal Processing -

*Stereo Imaging, Ambisonics, FM/AM Synthesis, Delay Lines, Reverb Structure, Additive/Subtractive/Granular Synthesis, Time Segment Processing, Filter Design*

# Miscellaneous

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**Lumen Prize:** 3D/Interactive Award

**Europe's Third International Spatial Audio Competition** - finalist

**Cambient: Ambient Camping** - first record release

**The New Music Ecosystem** - talk on brain music interfaces

**Undergraduate Research Symposium** - presented on Ambisonic Tank Reverberator

**User-Centered Design In and Beyond the Classroom: Toward an Accountable Practice** - first peer reviewed paper

**Ambisonics and the ATK** - Talk given for Audio Engineering Society

**Music of Today** - Until Spring - Ambisonic concert I was featured in

**Music of Today - Performing with the Brain** - Performance I took part in. First time to feature to quadrapalegic performers making music with their brain. (Designed interface and music technology)

# Projects

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**Encephalophone** - Device that turns brainwaves into music

**Bartholomew** - Interactive sound sculpture that communicates via magnetism and vibration

**AmbiverbSC** - Ambisonic tank reverberator built in the SuperCollider programming language using the the Ambisonic Toolkit

**SVF** - An implementation of the Chamberlain State Variable filter written in C++ using juce

**Look @ Me** - Digital ecosystem composed of randomly generated profile picture amalgamations

**We Are All Made of Light** - Ambisonic composition for interactive light installation

**PCE** - Perpetually novel composing engine written in Supercollider

**Mirror Bot** - Autonomous robotic mirror that actively hides from onlookers

**Voices and Voids** - Artistic collaboration focusing on mechanical turk workers and voice assisted AI.

**Three Changes** - Holographic Ambisonic composition

**Get-Clean** - A sonic landscape that attempts to grapple with the complex issue of homelessness

# Experience

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## **DreamWorks, Eagle Rock CA**

*Assistant to Composer*

*July 2016 - May 2017*

Worked under Robert Watson on DreamWork's Netflix series, Veggie Tales: In The City

## **Center for Digital Art and Experimental Media**

*University of Washington*

*Teaching Assistant / Research Associate*

*September 2017 - Present*

Teacher's assistant for the digital sound series (DXARTS 460, 461, 462) at the University of Washington. Researching star sonifications.

## **1000 Words Events, Tacoma WA**

*Photobooth Technician*

*June 2017 - Present*

Setup, teardown, and operation of various booths, adept knowledge and usage of current digital imaging technologies

## **Banya 5, Seattle WA**

*Spa Attendant*

*August 2018 - Present*

Maintain facilities, provide customer support, and build software at the Banya 5 Urban Spa

## **UW Recreation, University of Washington**

*Mindfulness Assistant*

*January 2018 - March 2019*

Assistant for UW mindfulness program - a service which provides year round yoga and meditation classes to students and faculty. Responsibilities include tabling, record keeping, and activity coordination for events in support of the program

**Broadway Center, Tacoma WA**

*Sales Associate*

*July 2015 - August 2015*

Part of the 2015 Broadway Center seasonal campaign raising funds in support of the arts in the Tacoma region. Provided tickets, information, and memberships to Broadway Center patrons

**Northwest Folklife, Seattle WA**

*Roving Assistant*

June 2018 - June 2019

Collected/processed donation and provided customer support at 2018 folklife festival.