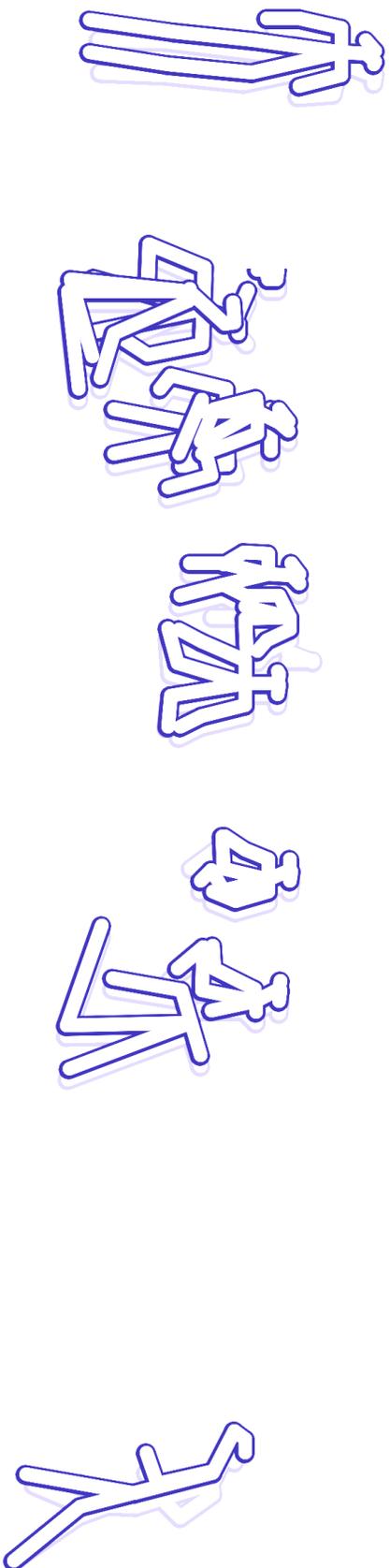


## EXPERIMENTAL CAPTURE

Thursday, 4 May 2017, 5:00-7:00pm  
Frank-Ratchye STUDIO for Creative  
Inquiry • Carnegie Mellon University

Professor Golan Levin and (TA) Claire Hentschker present an exhibition of student projects from "Experimental Capture", an interdisciplinary course in which students come to observe, understand and build representations of the world using devices that sense beyond the limits of human perception. Students explored and developed novel acquisition techniques—using sensing technologies such as motion capture, panoramic and multi-spectral imaging, ultra high-speed video, 3D scanners, LIDAR, scanning electron microscopy, ground penetrating radar, computer vision, and robotic cinematography—in order to discover and reveal new truths.

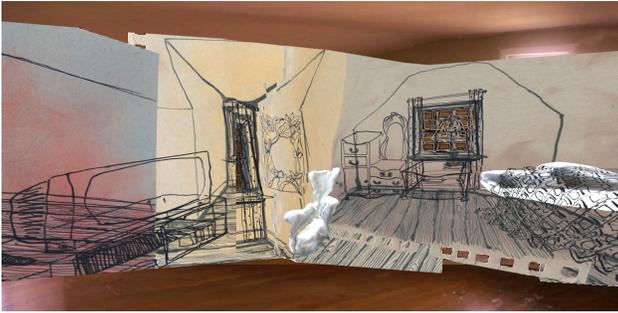
# EXPERIMENTAL CAPTURE



**Creator:** iciaiot

**Title:** *Memory Rooms*

Photogrammetry, clay, ink, pigment, and paper were used to recreate the artist's bedrooms from memory in an interactive projection.



**Creator:** a

**Title:** *Super Bone World*

A system which transcodes online video streams of people moving around into a world of animated skeletons, hanging out together.



**Creator:** blue

**Title:** *Body, My Body*

Created in collaboration with the Pittsburgh movement/music duo, *slowdanger*, "Body, My Body" animates 3D body scans with motion capture data in order to create an immersive view of a dance performance.



**Creator:** Mikob

**Title:** *First Kisses*

A book of one thousand answers to the question, "where did you experience your first kiss?"

in my bedroom closet

At a pizzeria. I was in high school on a first date. The kiss tasted like pizza.

Hospital waiting room

Photography dark room

prison

In the back seat of a car. My mom was driving, which is awkward.

**Creator:** supercgeek

**Title:** *AR Portals for Historical Photographs*

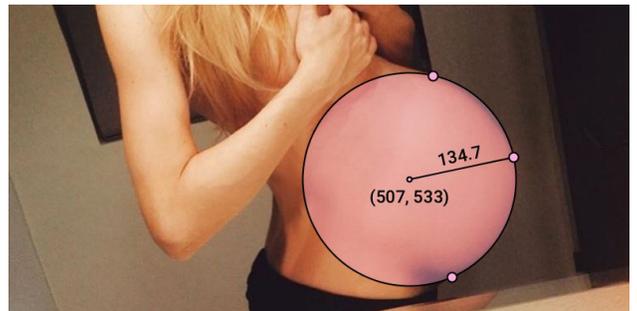
Historical realities of environments through portals, juxtaposing the past against the present in a HoloLens AR application.



**Creator:** caro

**Title:** *@the.circles.of.life*

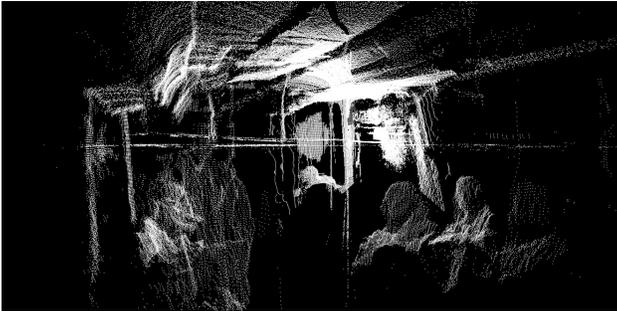
Finding the center and radius of Instagrammed pregnancies.



**Creator:** cdslls

**Title:** *Naturalistic Observation with LIDAR*

Scenes, captured in Pittsburgh public buses with a head-mounted LIDAR, reveal the emotional distance and physical proximity between strangers.



**Creator:** Bernie and Quan

**Title:** *Robot Arm Media*

Explorations in the use of robotic cinematography for tightly controlled video portraiture.



**Creator:** DMGordon

**Title:** *Rotting Machine*

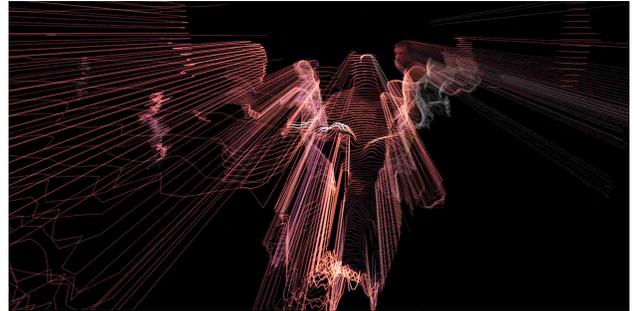
I trained a neural network to understand the difference between images of fresh and rotten fruit. The network can thus rot (or unrot) any image. I then fed the network images that are not fruit.



**Creator:** fatik

**Title:** *The Pit*

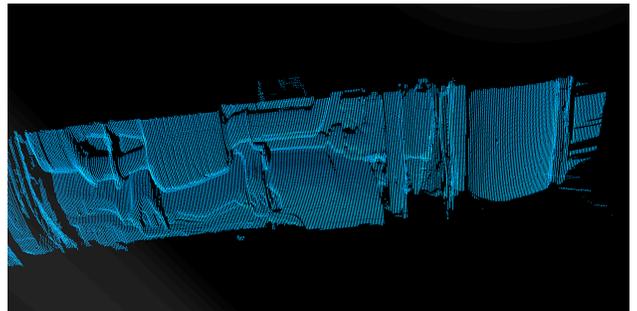
Exploration of human angst in physical form triggered by intense punk music. Also an exploration of depth footage and post production in depthKit.



**Creator:** hizlik

**Title:** *Small Car Scans Underbelly of Big Car*

A line-laser equipped, remotely-controlled car scans the underside of vehicles into 3D point-cloud data.



**Creator:** gloeilamp

**Title:** *Skies worth Seeing*

When is the sky worth capturing? Through a computationally organized grid, I present a study of the skies and qualities of light that inspire us.



**Creator:** Kyin and weija

**Title:** *Handprint & Footprint Recognizer*

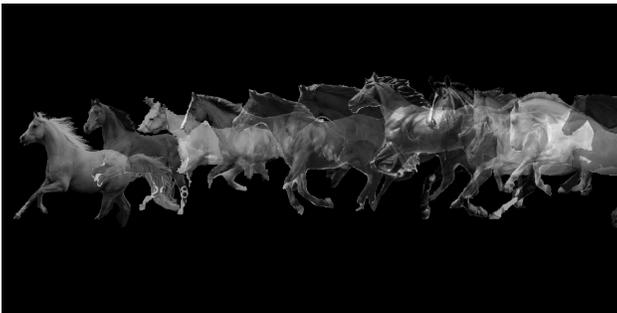
We used a pressure interface and machine learning algorithms to create a system that can recognize different people's palms and feet.



**Creator:** ngdon

**Title:** *Image Sequencer*

A tool which computationally sorts images into sequences, based on certain common features.



**Creator:** Bierro

**Title:** *The Pulse of Shibuya*

A visualization of the dynamics and movements inherent in the iconic Shibuya crossing in Tokyo.



**Creator:** Geep

**Title:** *Sphinct*

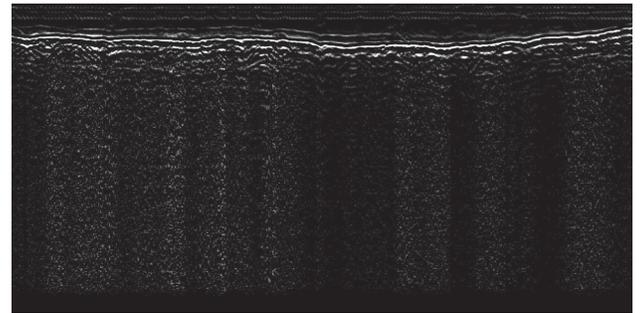
Sphinct is a personal sphinctometer.



**Creator:** sayers

**Title:** *GroundSounds*

GroundSounds is a VR tour through Carnegie Mellon's *Numbers Garden* by way of spatialized audio generated from Ground Penetrating Radar data.



**Creator:** fourth

**Title:** *High Speed Portraiture*

High speed footage and audio recordings provide not just a montage portrait, but insight into the photographer's perspective while capturing a traditional portrait.

