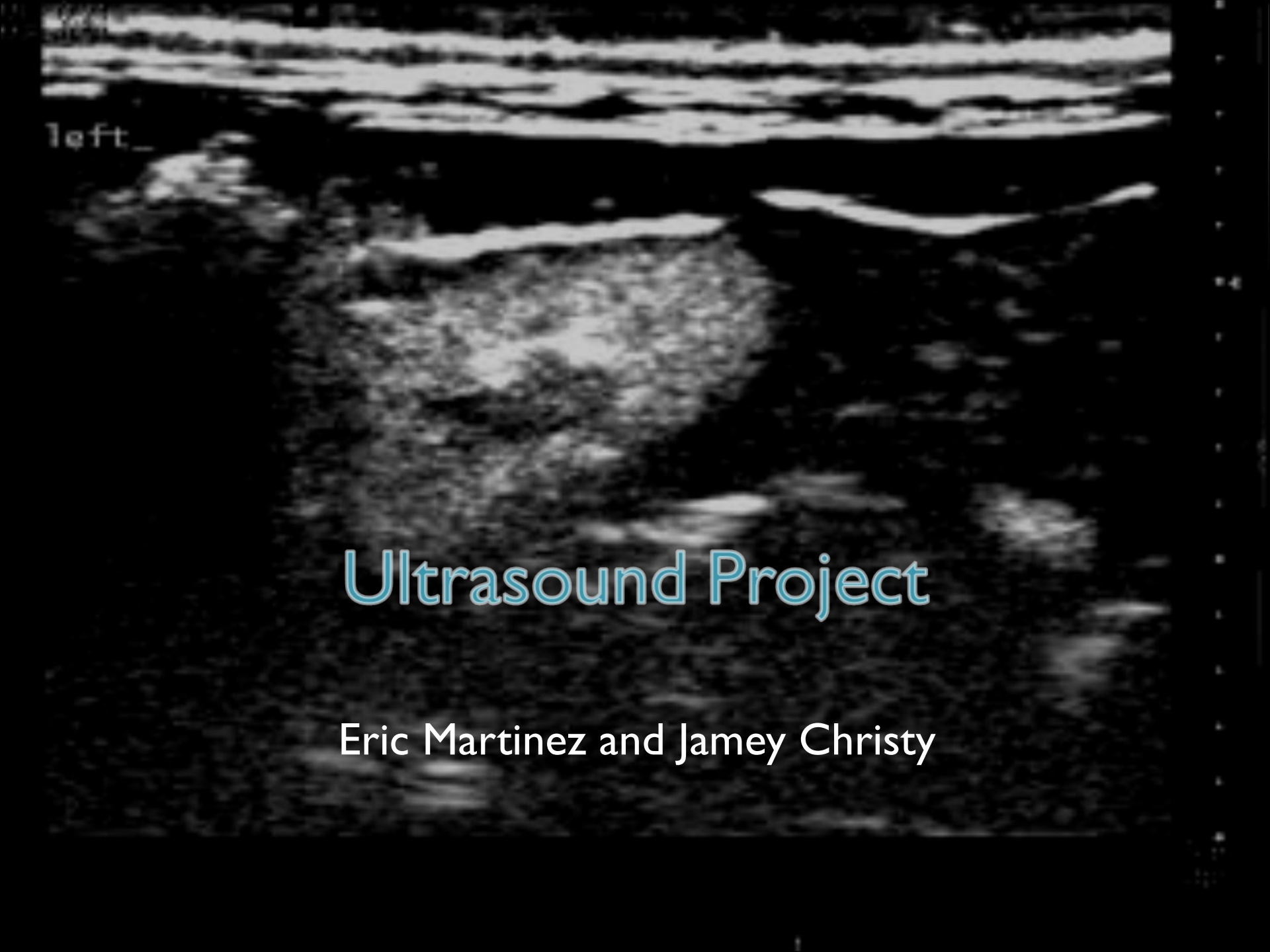


Ultrasound Project

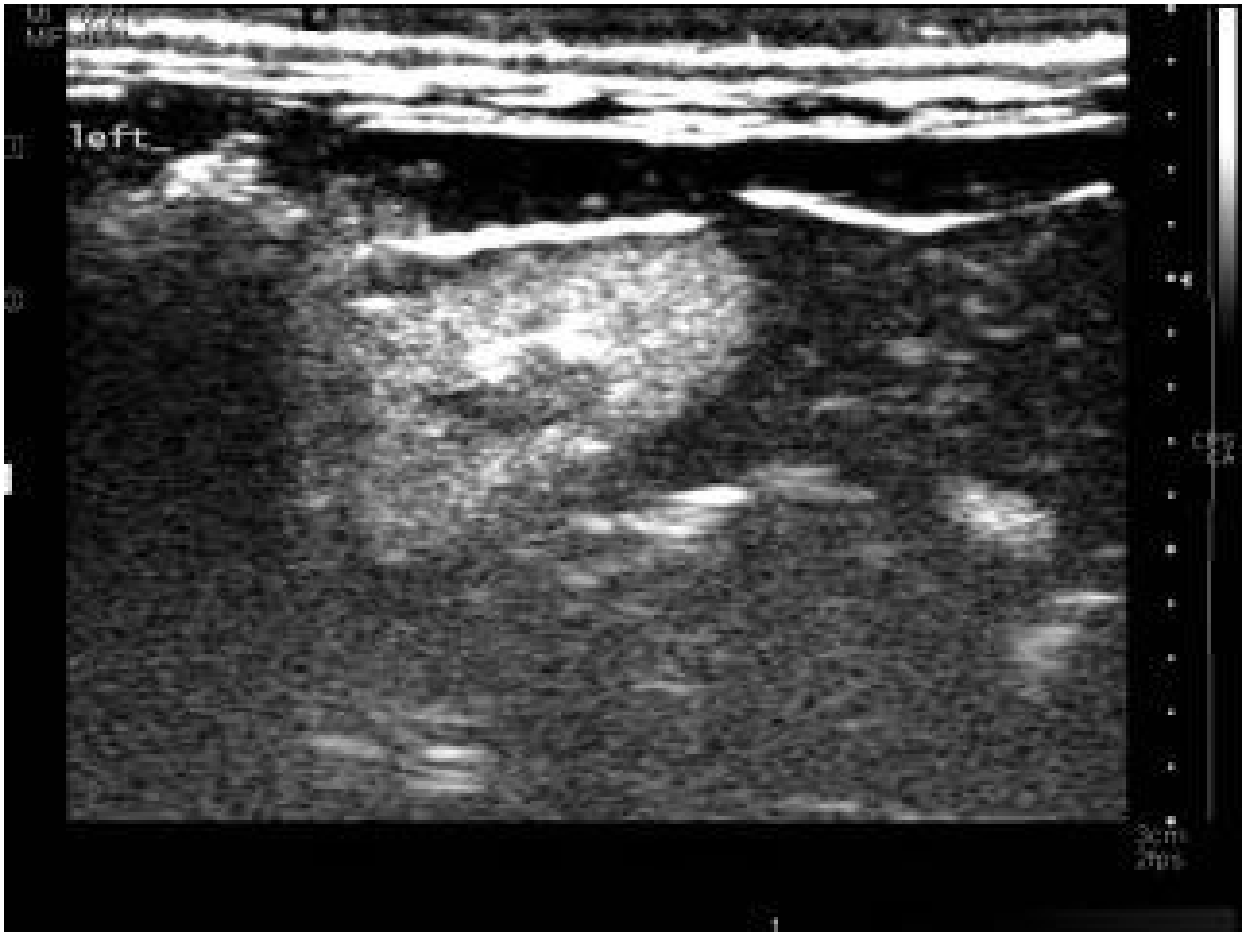
Eric Martinez and Jamey Christy

Overview

- Background
- Problem Statement
- Solution
- Future Work

Background

- Measure time to 80% Perfusion



Problem Statement

- Took a Long Time to make Measurement
- Minimal Image Processing Knowledge
- Unfamiliarity with Matlab

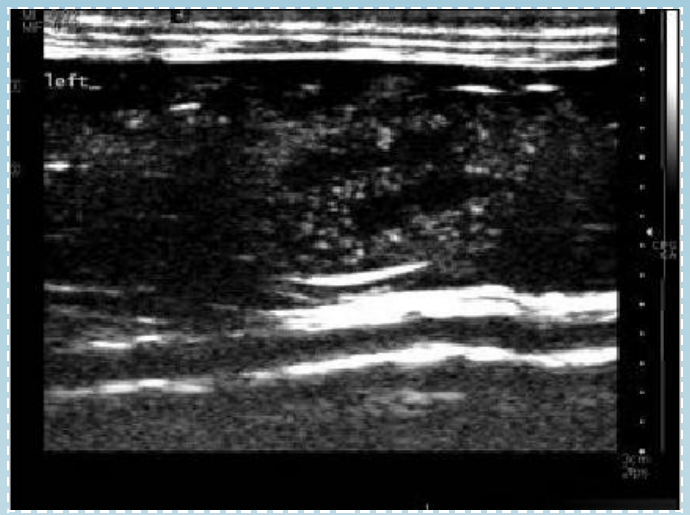
Loading Video

Choosing a Frame

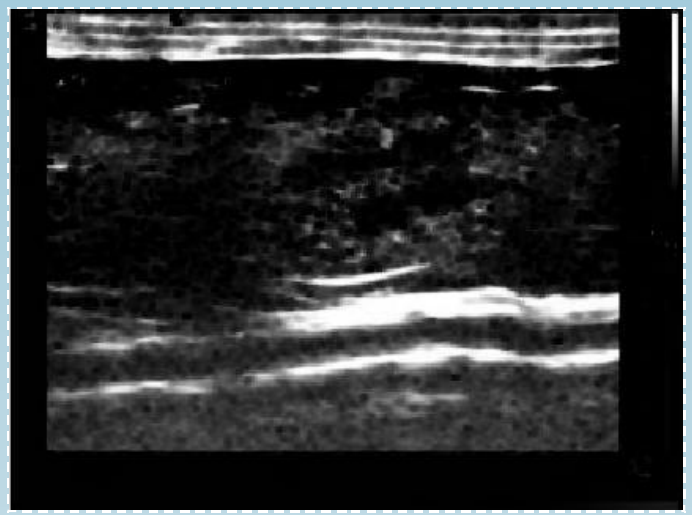
Cleaning Up Image

Image Comparisons

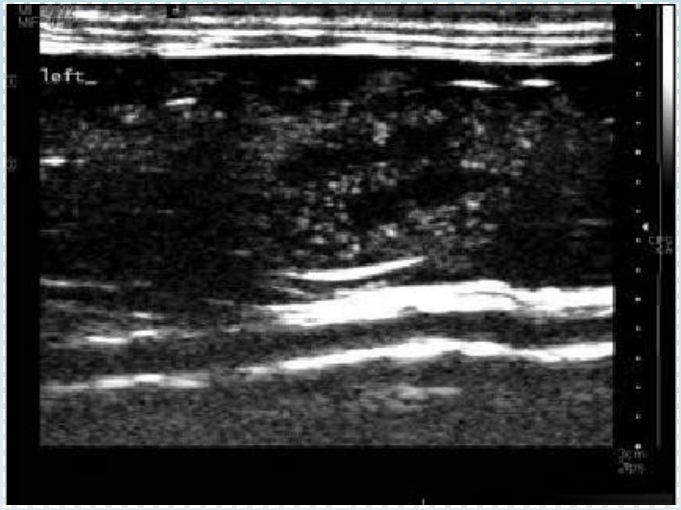
Original



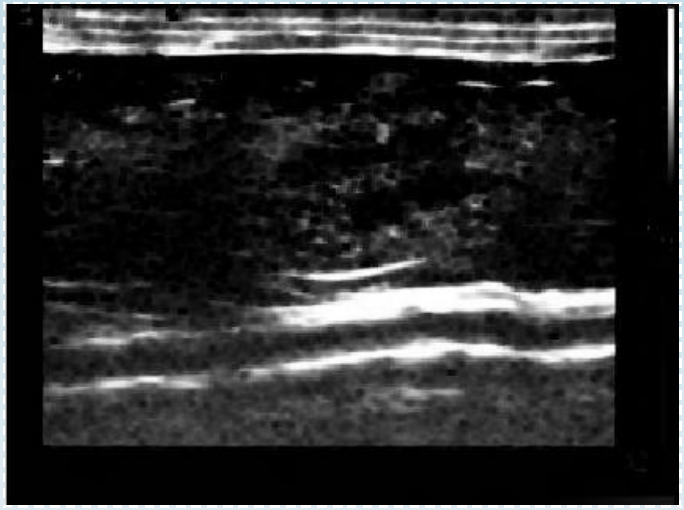
Contraharmonic



Median

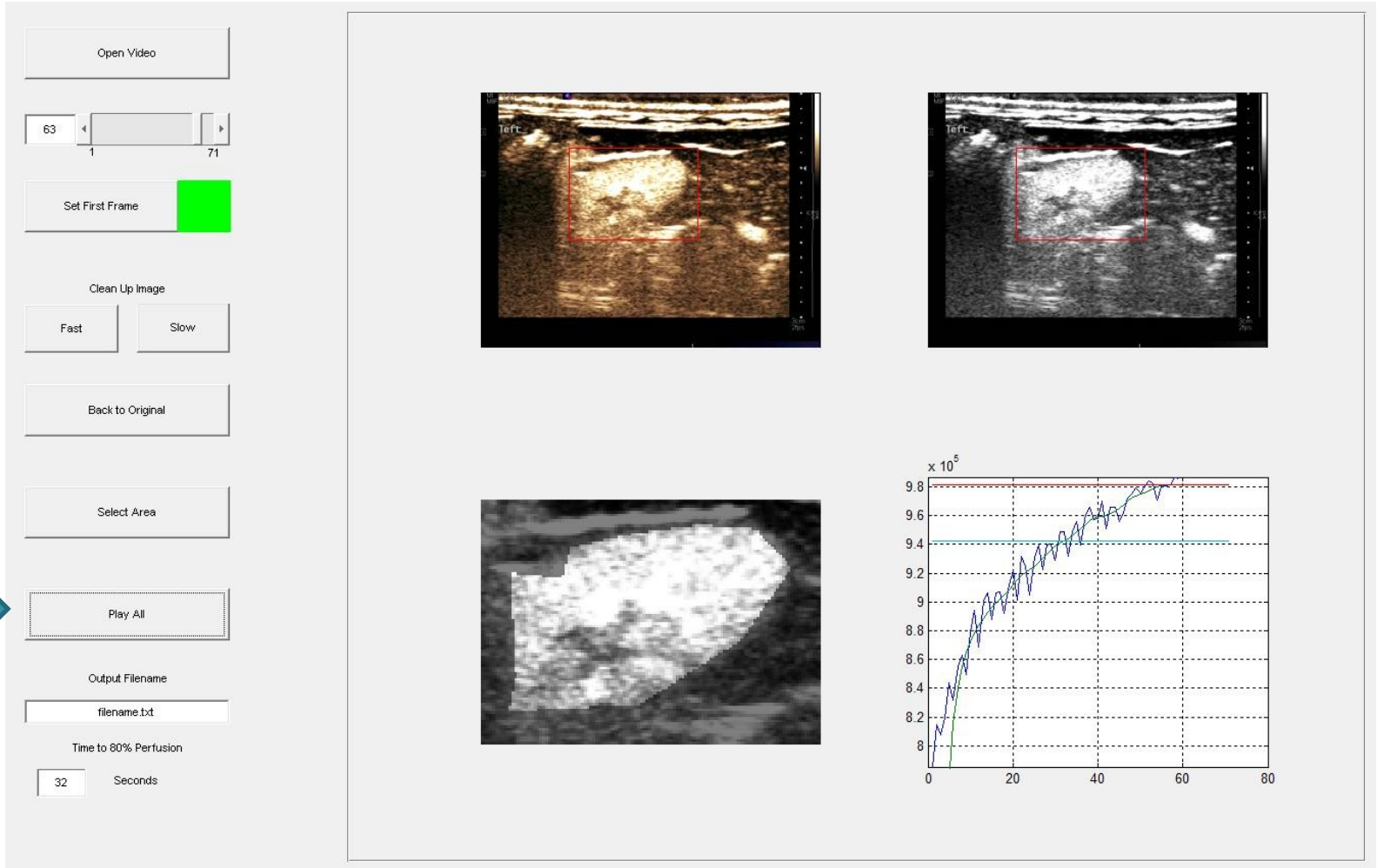


Adaptive Filter



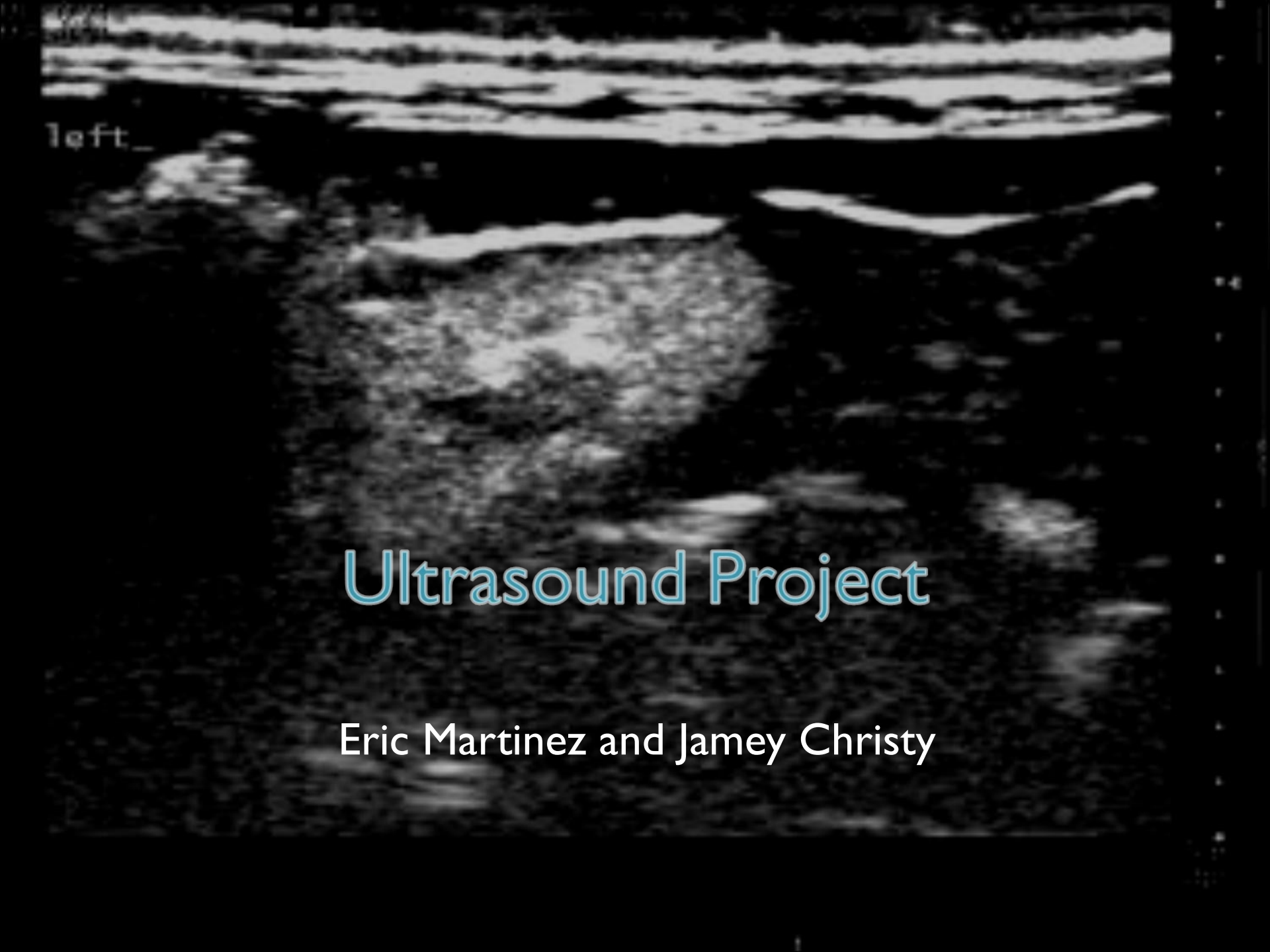
Selecting Area

Play All


Open Video
63
1
71
Set First Frame
Clean Up Image
Fast
Slow
Back to Original
Select Area
Play All
Output Filename
filename.txt
Time to 80% Perfusion
32
Seconds
x 10^5
9.8
9.6
9.4
9.2
9
8.8
8.6
8.4
8.2
8
0
20
40
60
80

Future Work

- Compare to Original Data
- Instruction Manual
  - Converting and Reading MPEG-4
- Published



Ultrasound Project

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