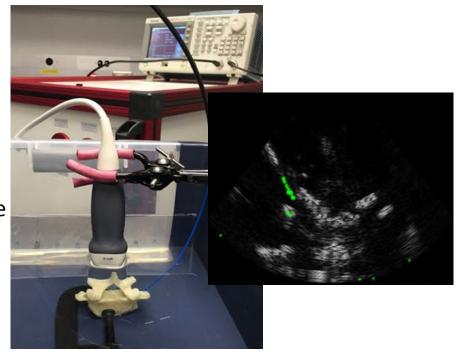
## **Photoacoustic Guided Spinal Surgery**



- Motivation
  - Visualize drill insertion into vertebra
  - Safer alternative to fluoroscopy
- Methods
  - PA imaging of lumbar vertebra with pre-drilled hole with matched US image
  - PA imaging of human blood through bone
- Results
  - Drill tip can be tracked through PA signal amplitude





Member:Blackberrie Eddins Mentor: Muyinatu A. Lediju Bell