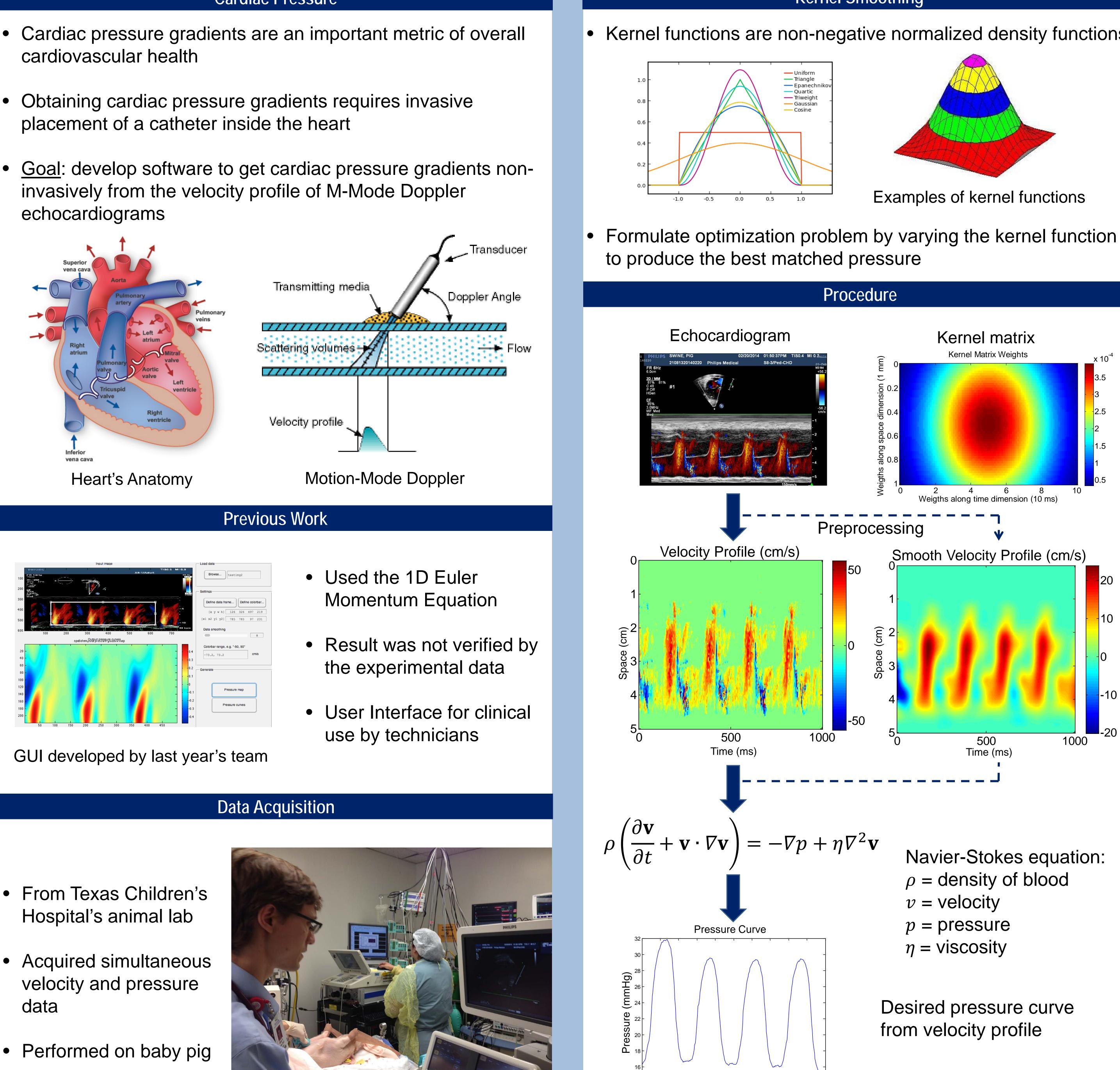
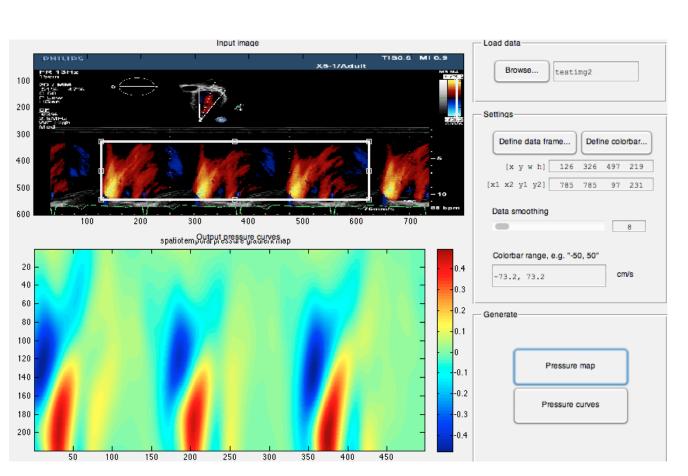


## Cardiac Pressure

- cardiovascular health
- placement of a catheter inside the heart
- echocardiograms





# GUI developed by last year's team

- From Texas Children's Hospital's animal lab
- Acquired simultaneous velocity and pressure data
- Performed on baby pig

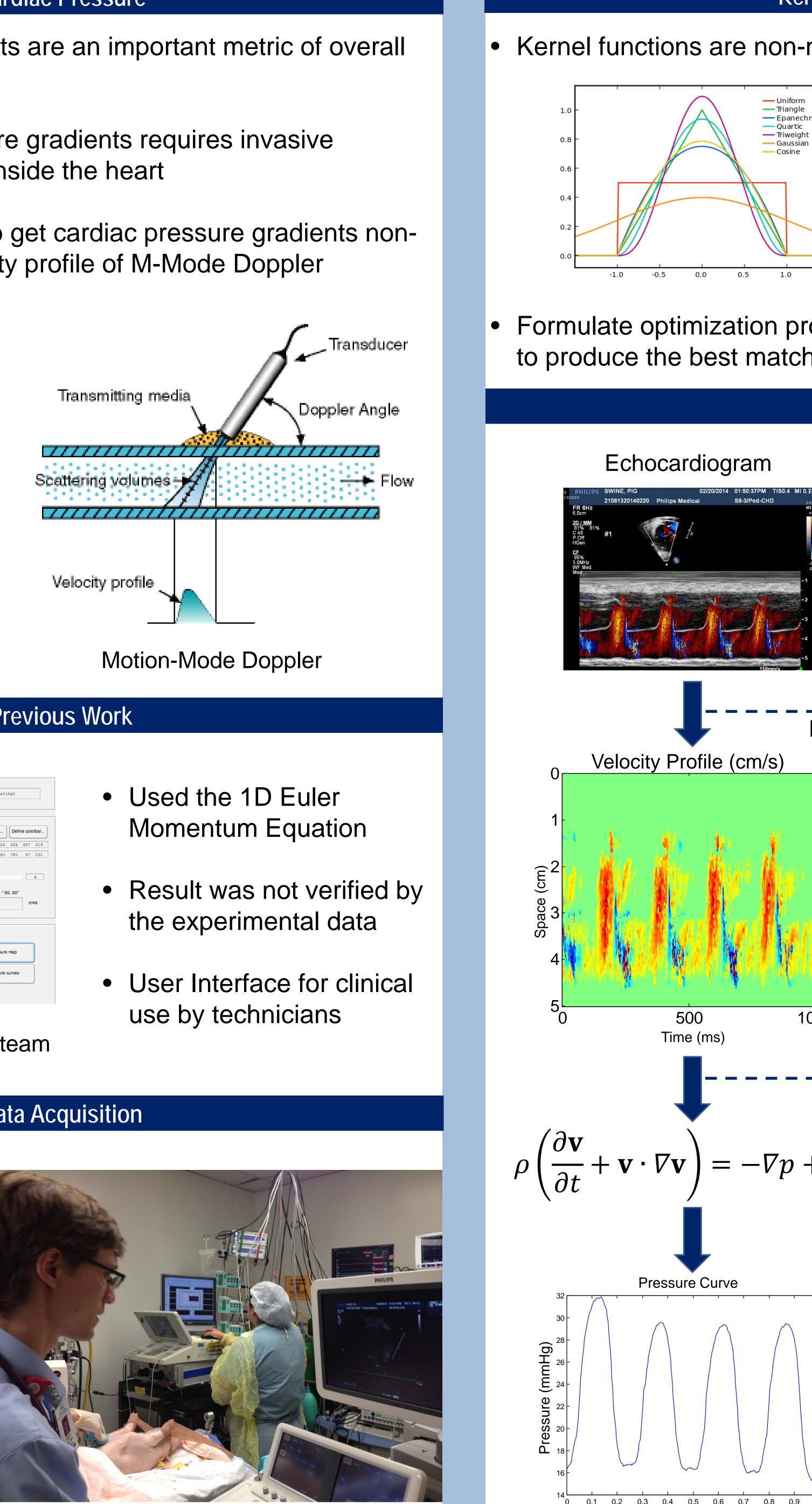


Image of the operation

# **A Non-Invasive Diagnostic Tool for Cardiac Pressure Gradients**

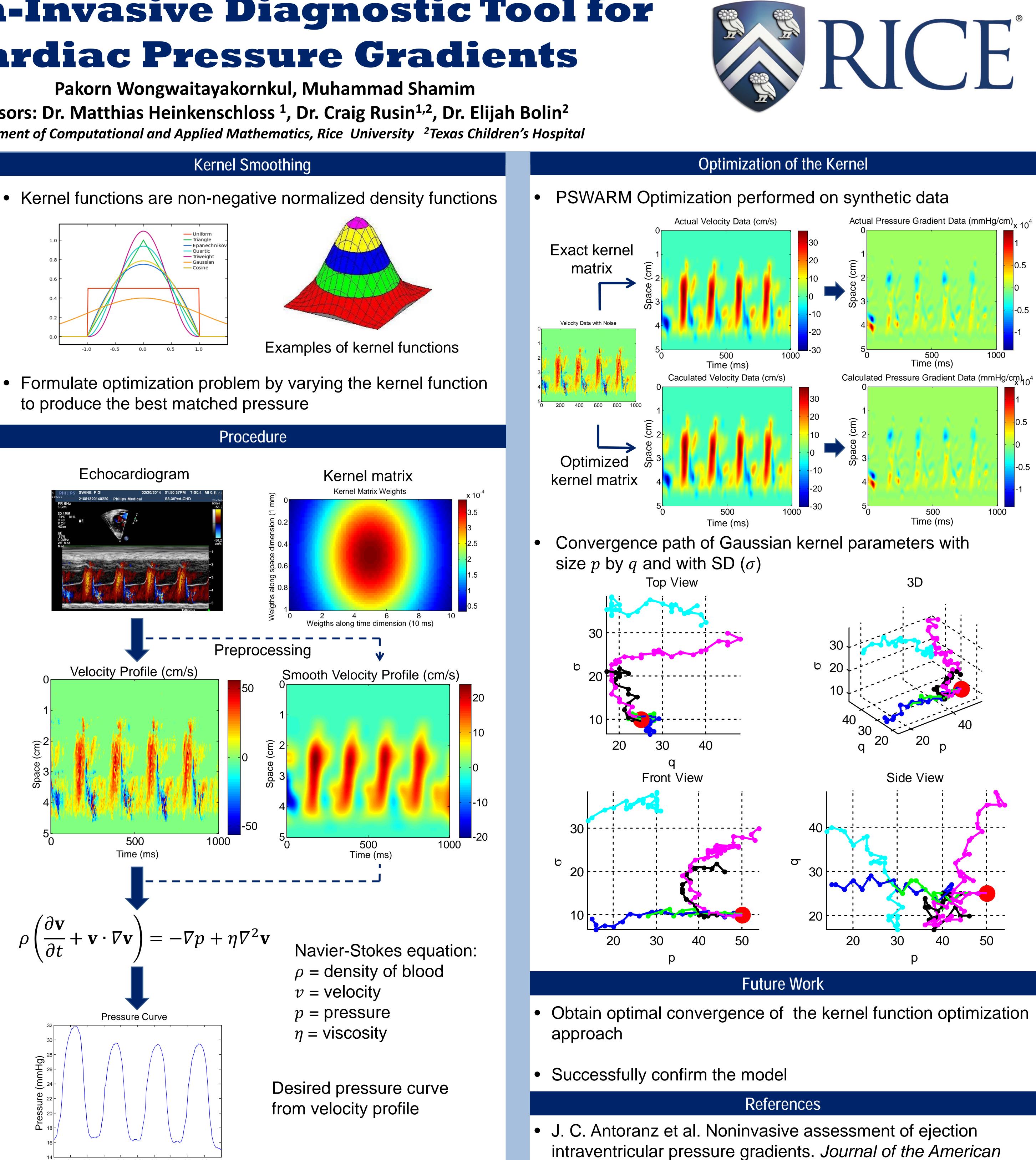
# Pakorn Wongwaitayakornkul, Muhammad Shamim

Advisors: Dr. Matthias Heinkenschloss<sup>1</sup>, Dr. Craig Rusin<sup>1,2</sup>, Dr. Elijah Bolin<sup>2</sup> <sup>1</sup>Department of Computational and Applied Mathematics, Rice University <sup>2</sup>Texas Children's Hospital

## Kernel Smoothing

50

Time (s)



College of Cardiology, 43, 2004