



**MERIT**  
● ● ● ● ● ●  
**2006 FAIR**

# Detection of Humans Carrying Concealed Objects

Jeremy Webb

Advisors:

Yang Ran

Dr. Rama Chellappa

# Agenda

- Introduction
- Method of Detecting Concealed Objects
- Concealed Objects on the Ankle: Gait Geometric Asymmetry
- Concealed Objects around the Midsection: Gait Geometric Symmetry
- Conclusion

# Conclusion

- Concealed Objects that effect gait geometric symmetry can be reliably detected
- Concealed Objects that do not effect geometric symmetry are difficult to detect
- With further work a system could be developed to detect concealed objects which result in gait geometric asymmetry