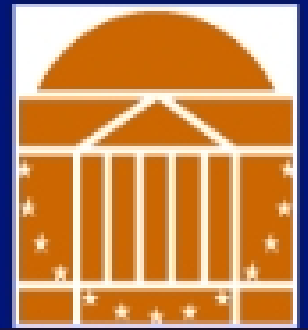


# Animation

## CS 551 / 651

*Automatic Joint Parameter  
Estimation from Magnetic  
Motion Capture Data*

*James F. O'Brien, Robert E.  
Bodenheimer, Gabriel J.  
Brostow, Jessica K. Hodgins*



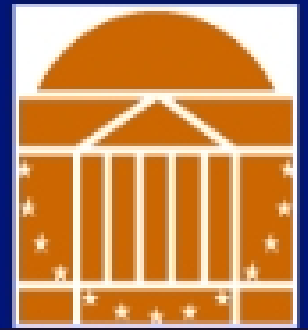
# Why is Motion Capture Good?

*Human and human-like characters*

*Retains subtle elements of a performer's style*

*Powerful solution when animations must be generated quickly*

- Immersive virtual environments



# Why is Motion Capture Bad?

*Optical and magnetic systems suffer from sensor noise*

*Sensors require careful calibration*

*Precise measurements of limb lengths*

- Taken by hand in a reference pose
- Tedious
- Prone to error
- Often impractical