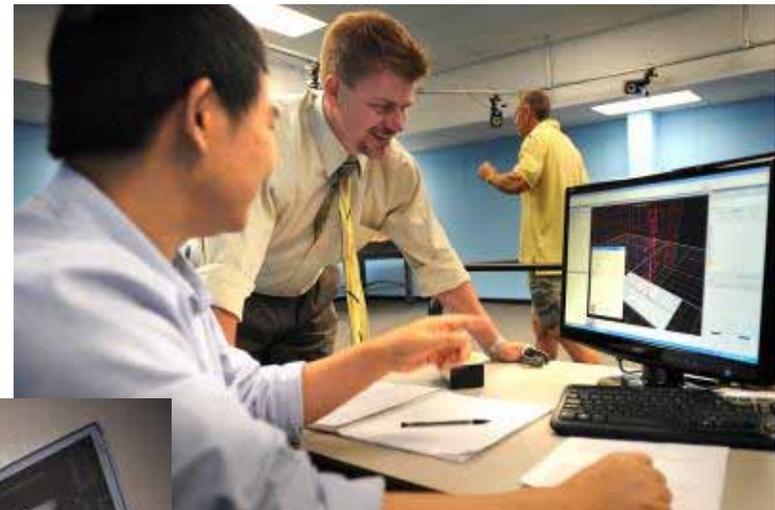


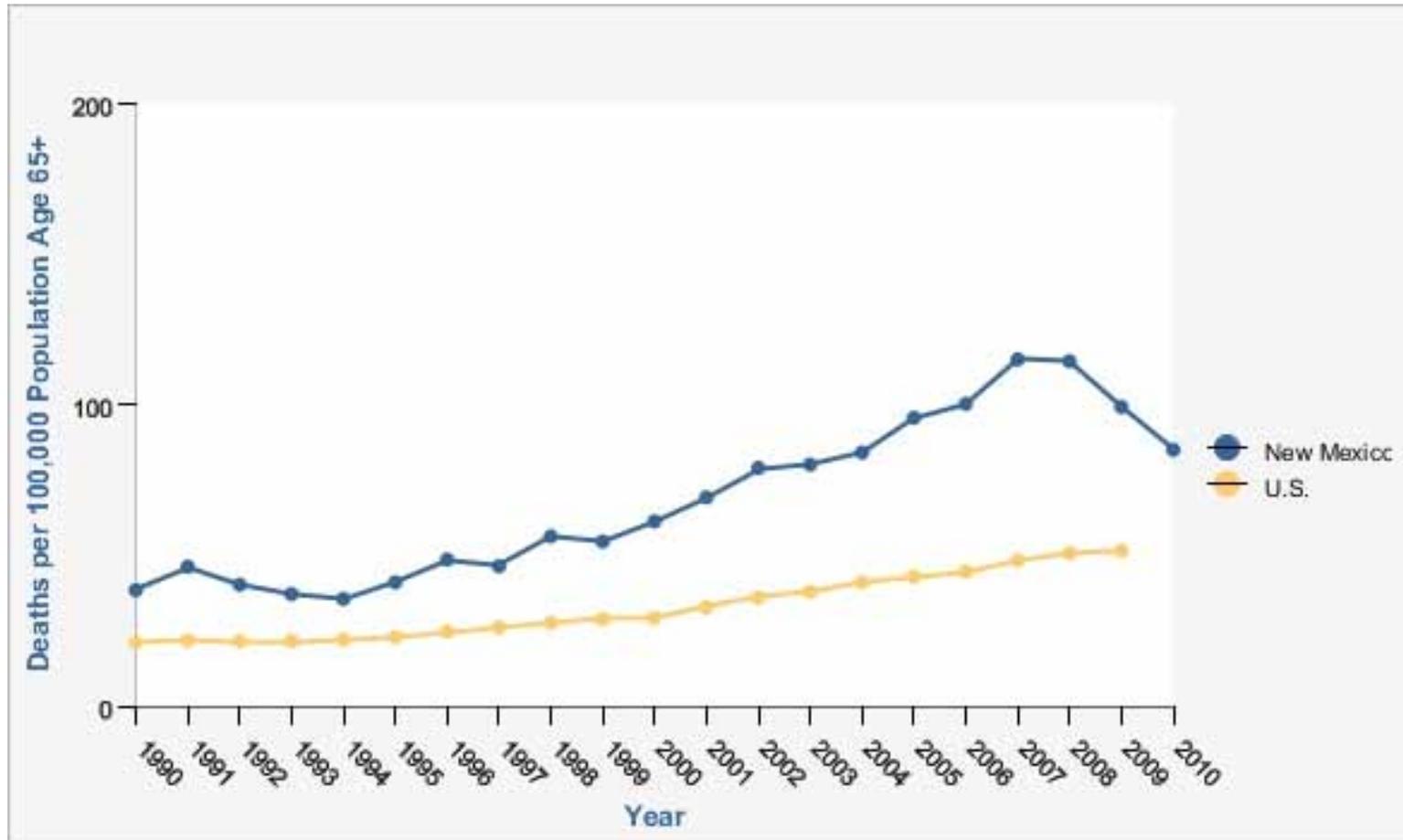
# NMSU Department of Human Performance, Dance & Recreation



New Mexico State University



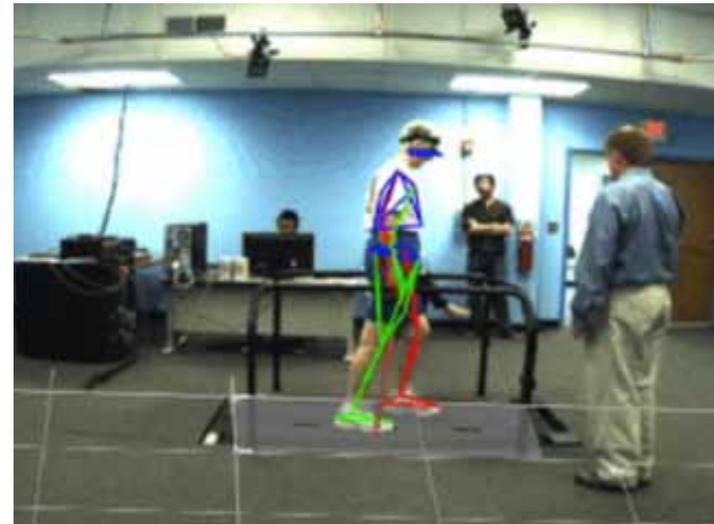
## Fall-related fatalities New Mexico vs. US



# Professor Bob Wood

## Assistant Professor Jennifer Fabre

- Biomechanical analysis of gait and falls risk in senior adults
  - Collaboration with dept. of Mechanical Engineering
- Health disparities impacting older adults
- Over \$1million in federally funded research
  - Current Grant Submission: ***Tai Chi and Advance Gait Analysis of Community-Dwelling Older Adults.*** Agency: National Institute of General Medical Sciences. (1SC1GM109812-01; \$1.2 million)
- Corporate Sponsors/IP



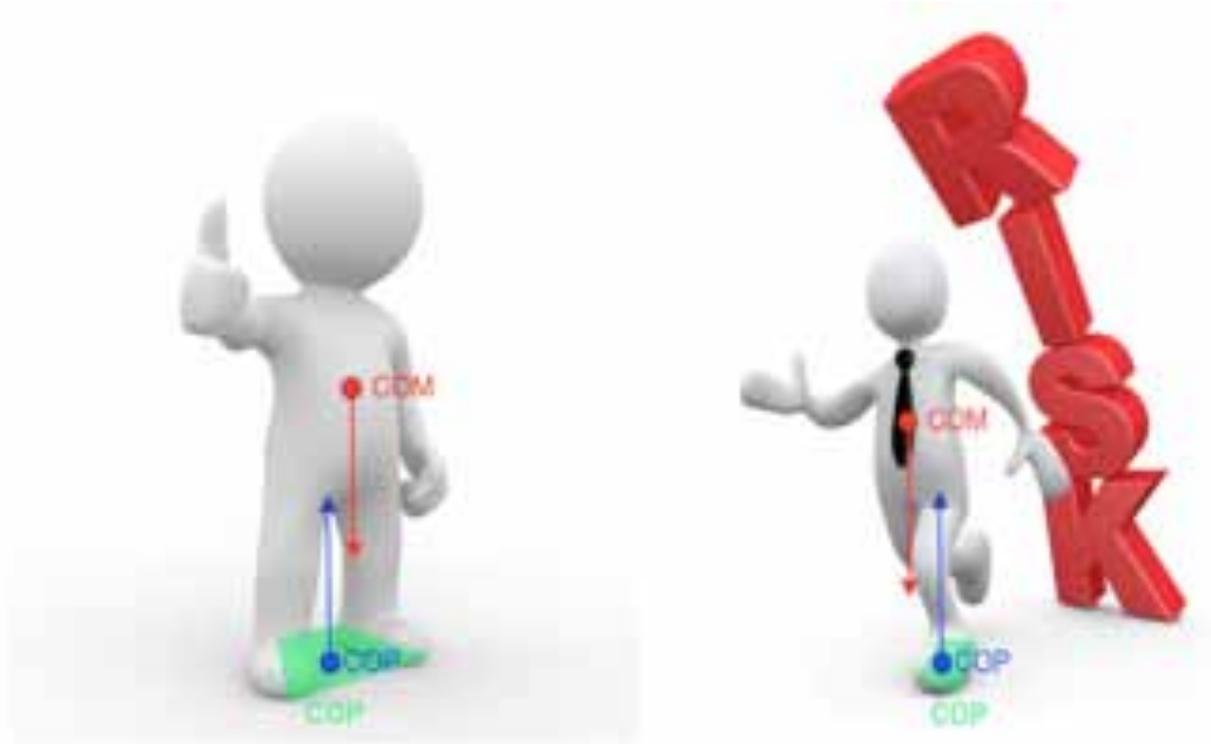
# Assistant Professor David Keeley

## Biomechanical implications of obesity for injury in youth.

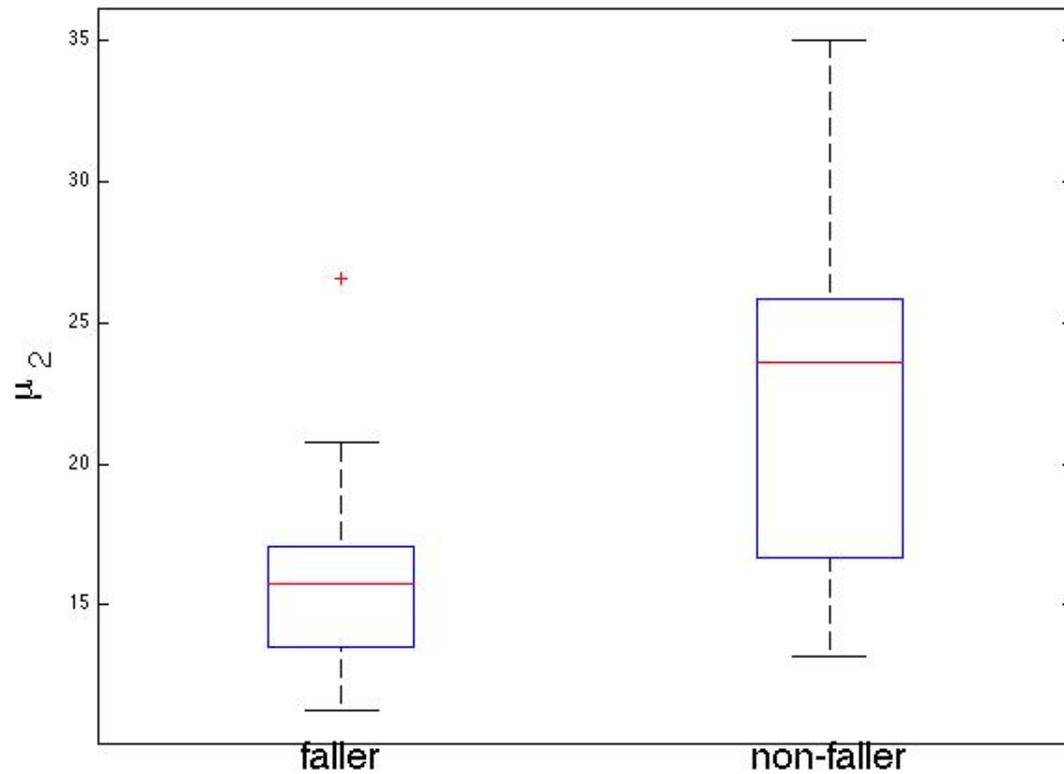
- Collaboration with Mechanical Engineering
- Current grant submission: ***A Framework for Identifying the Inertia Properties of Individual Body Segments of a Live Human.*** Agency: National Science Foundation Dynamical Systems Program (\$323,469).



# Excursion Indices



# Fallers vs. non-fallers



# Evidence-Based Interventions

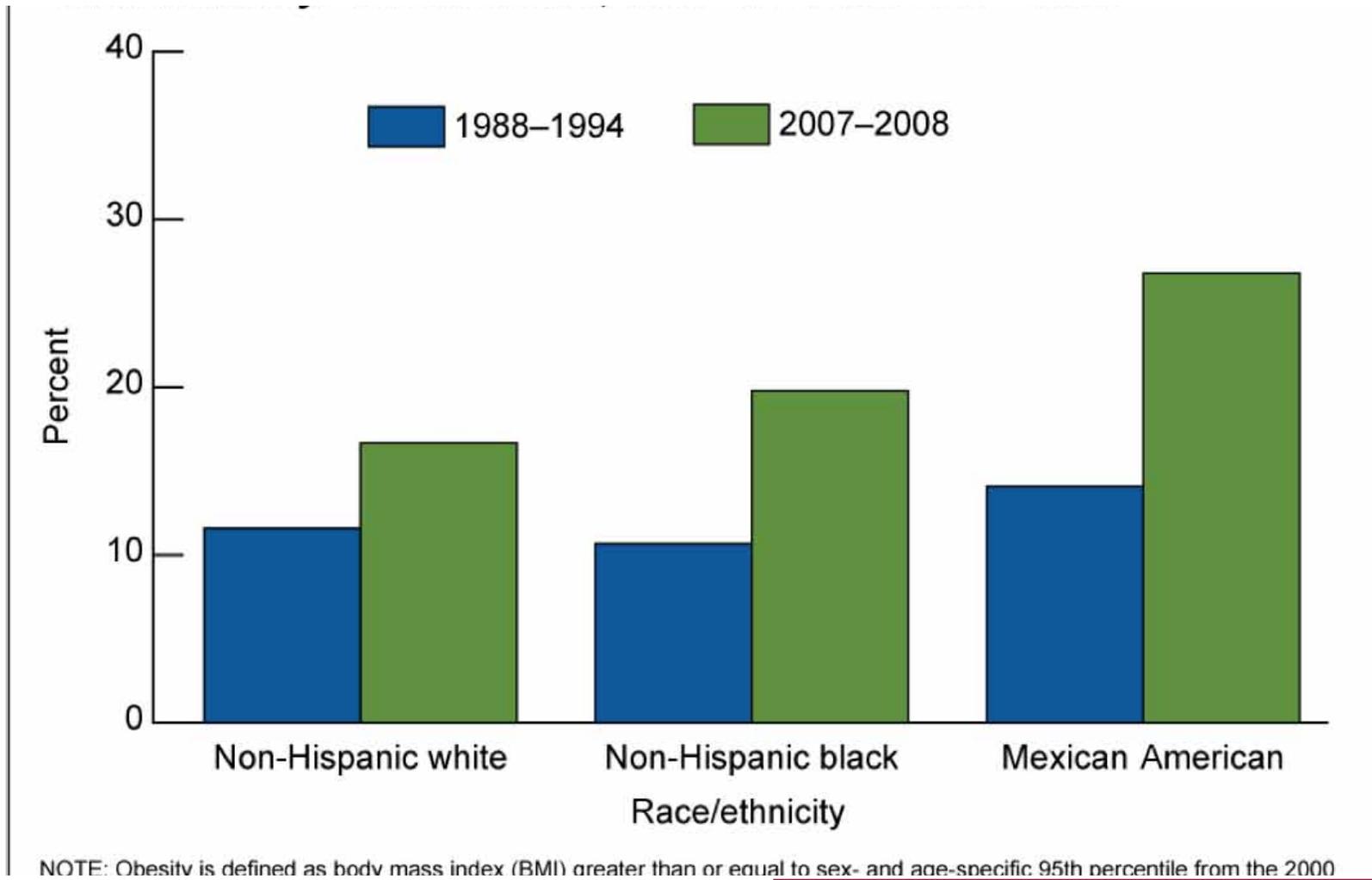


We also.....



Prevention of childhood obesity and diabetes

# Obesity Rates in School-Aged Children



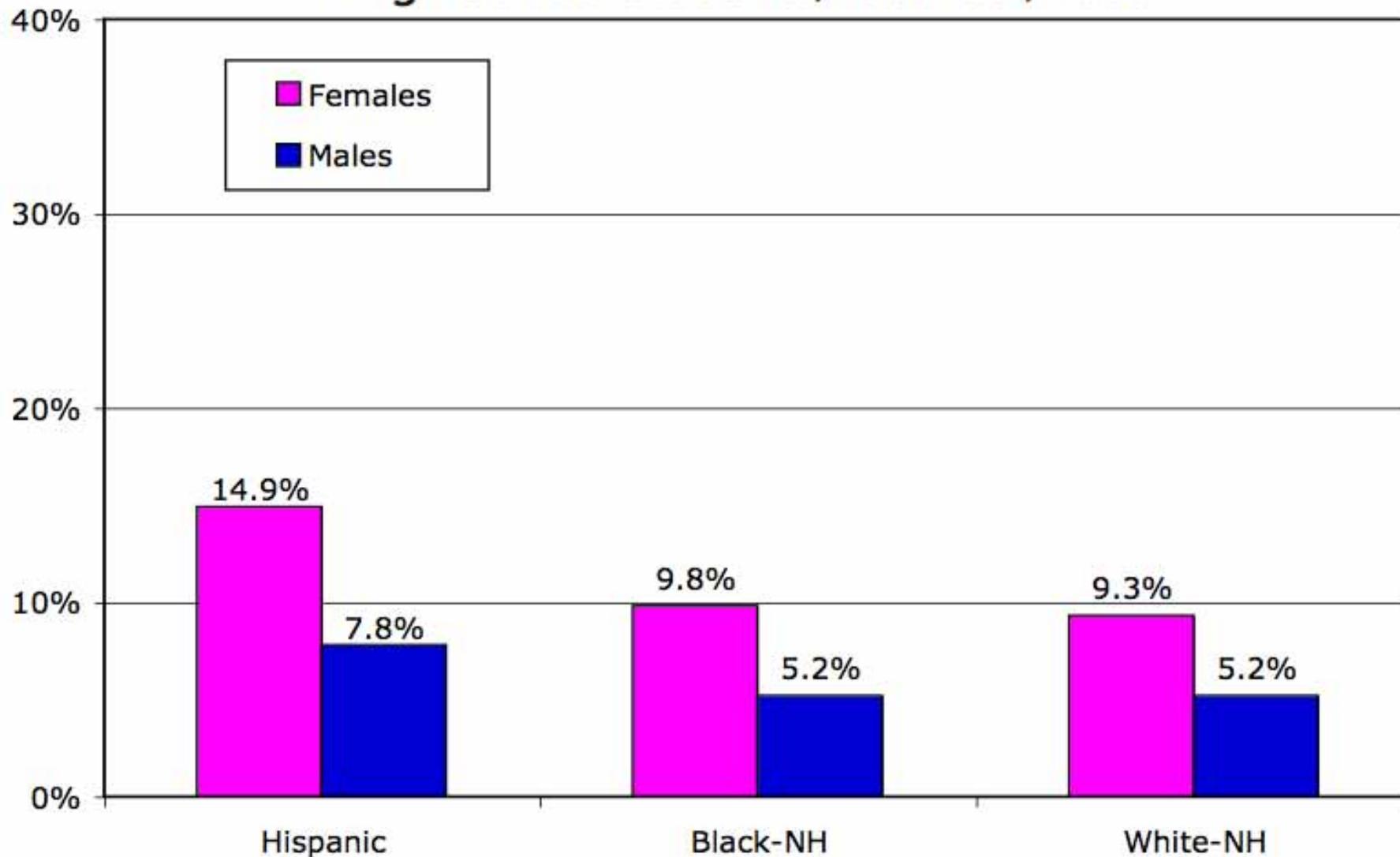
And.....

working with young girls to strengthen their self-image and sense of self-worth.

Oct 14, 2013: *“I know I bullied Rebecca and she killed herself, but IDGAF.”* -14 year-old Florida girl-



## Suicide Attempts by Race/Ethnicity and Gender, High School Students, Past Year, 2005<sup>3</sup>



# Professor Kim Oliver

- Student-centered inquiry-based approach to student engagement in education is transformational
- One of the most highly decorated scholars in Physical Education.
- Has obtained over \$1million in federal funding
- Current grant submission: ***Title IX and Co-Education Physical Education: Working to better meet the physical activity needs of adolescent girls in school settings.*** Organization: SHARP Center for Women and Girls

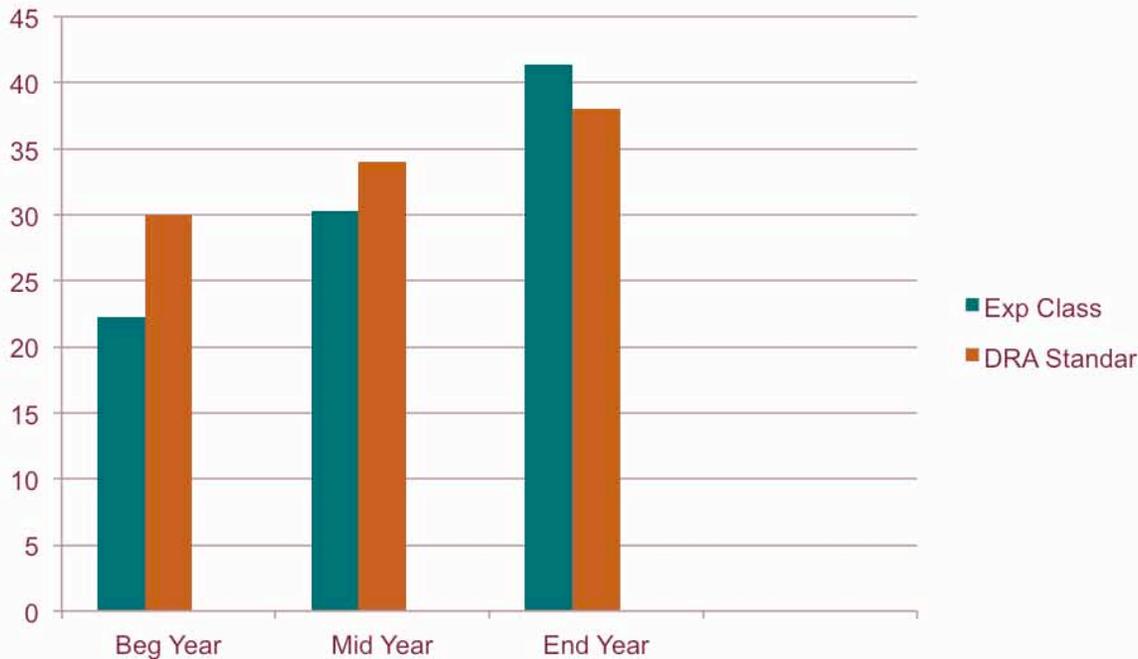


# Professor Debra Knapp

## Literacy Through Movement:

significant effect on reading scores and increased student engagement in reading.

- since 2009: over \$200,000 in private foundation grants
- current grant submission:



Assistant Professor Phil Post  
Motor learning in sport and  
rehabilitation



Assistant Professor Michaela Boham  
Head injuries in college and high school  
athletes



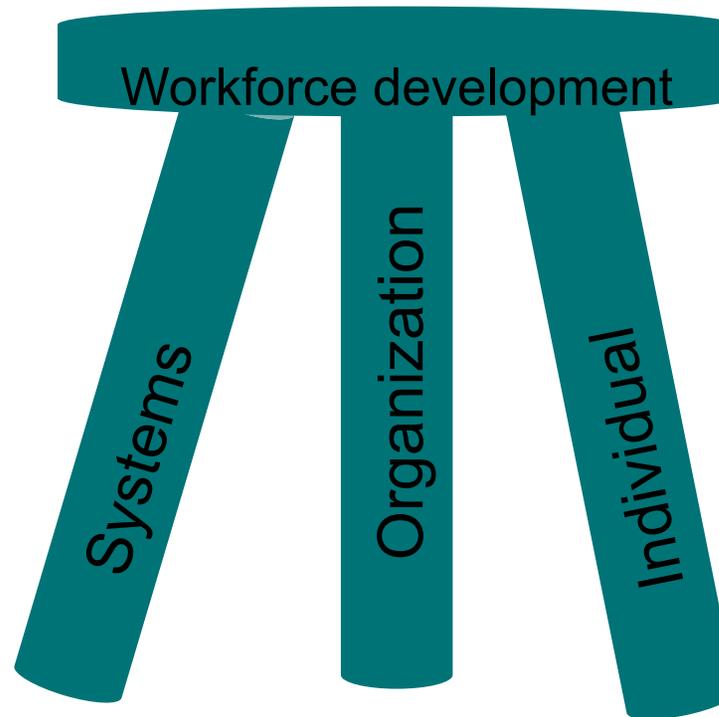
Assistant Professor Andrea Cripps  
Head injuries in college and high school  
athletes

# How can you help?

- We have recently proposed a PhD program
  - Restructuring within college of Education
    - Efficiencies based on changing demographics
    - No cost to state (funded through existing resources)
  - Unanimous support all the way up to HED
  - HED has said “no.”

# Workforce Development

- Systems
- Organizational
- Individual



## No program

Threatens high quality undergraduate program and therefore loss of Individual workforce development

Limits system or organizational level workforce development in areas of great need.

Further exaggerates brain drain status of NM

Loss of opportunity for federal research \$\$  
\$\$

Disenfranchising faculty who are eager to achieve their potential

The current research thread die with us.

## Program

Maintain vibrant undergrad program producing dozens of grads each year going into health professions and biomedical research

Workforce development that can help reduce healthcare costs and improve quality of life for our citizens

Retain some bright NM students and attract others to state

Potential to obtain federally funded research (as demonstrated by history of faculty)

Empowering faculty, and taking advantage of the full potential of the faculty in our department.

We train the next generation of scholars  
And create ambassadors to rest of world.