

# Lauren Cairco

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## Education

Clemson University  
Clemson, SC 29631  
Ph.D. in Computer Science in progress

Winthrop University  
Rock Hill, SC 29733  
B.S. in Computer Science, Magna cum laude  
Mathematics minor  
Graduation date: May 2009

## Current Research

Augmented Reality in Inspection and Quality Control  
Fall 2009 - present

- Collaborating with BMW and mechanical engineers to design a multimodal user interface for vehicle inspection use

Virtual Patients for Nursing Education  
Fall 2009 - present

- Developing a system with high-fidelity virtual humans that act as patients who respond to natural language questions from a user

## Previous Research Experience

Computer Science & Cognitive Science Research Experiences for Undergraduates (REU) at UNC Charlotte

- Worked with existing framework to develop new application called Shakespearean Karaoke
- Shakespearean Karaoke allowed a user to act out a scene with a virtual actress inside of a virtual environment using a joystick and a head-mounted display or large screen
- Designed and carried out user study to find out how well people learned using SK

Computer Science REU at UNC Charlotte

- Worked with a team to develop new web-based framework for a virtual character named AVARI (Animated Virtual Agent Retrieving Information)
- AVARI uses speech to listen to and answer questions about computer science professors

Human Computer Interaction REU at Virginia Tech  
Summer 2008

- Developed an application to support HCI product design using storyboarding
- Conducted a pilot study to evaluate usability of storyboarding application
- Planning and hosting computing outreach events for underrepresented groups

## Academic Honors

2009 NSF Graduate Research Fellowship Recipient  
Clemson University R.C. Edwards Graduate Fellowship Recipient, Fall 2009  
Member of Upsilon Pi Epsilon National Computer Science Honors Society