

# LEMELSON-ILLINOIS

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Brett's dual background in human computer interaction and computer vision has enabled him to solve real-world problems using state of the art computer vision techniques. He strives to create magical interactive experiences that merge the physical and virtual worlds. His most recent project, IllumiRoom, augments the area surrounding a television screen with projected visualizations to enhance the traditional living room entertainment experience. IllumiRoom uses a Kinect and a projector to blur the lines between on-screen content and the environment. It uses a technology called projection mapping, where video projectors superimpose virtual objects onto physical reality, creating visual effects on everyday, non-flat objects. Brett's research makes content creation for projection mapping cheaper and easier, turning projection mapping into a new creative medium that can be sure to bring magical experiences to advertising, hands-on education, theater, gaming and in-home computing.

2013 FINALIST

**BRETT JONES**

PHD CANDIDATE **COMPUTER SCIENCE**