Development of Immersive Systems of Data Visualization

Ligia Filgueiras, Florida International University
Research Mentor: Biayna Bogosian

Goals

• Using immersive modes of information visualization to engage citizens of Miami and raise awareness about water issues.

Figure 1. CREST Miami River Tour

Research Methodology

• Understanding the end users of the visualization, as well as overarching goals of CREST center to create an appropriate visualization to serve their needs.

• Methods of engagement encompass developing near real time graphics, as well as interaction and emersion capabilities.

Figure 3. Graphic representation of buoy data

Results

• Generating one virtual reality application highlighting sensors deployed along Miami River.

• One augmented reality application demonstrating location of CREST buoys and data patterns acquired by this device.

Figures 4 and 5. AR and VR demonstrations to the public at Broward Youth Climate Summit

This material is based upon work supported by the National Science Foundation under Grant No. HRD-1547798. This NSF Grant was awarded to Florida International University as part of the Centers of Research Excellence in Science and Technology (CREST) Program. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.