

# Research Interests & Motivation to Participate

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## 1 Educational History

I received a Scientific Computing BS from Central Washington University in 1999, and an MS degree in Computer Science from Oregon State University in 2001. My MS thesis work focused on adding some of the benefits of software engineering practices to end user programming. I am beginning my 2nd year as a PhD student at the Georgia Institute of Technology.

## 2 Research Interests

I am interested in the development of interaction techniques, applications, developer support, and infrastructure for interactive surfaces. I feel that the largest barrier to research and development of off-the-desktop applications is the lack of developer support, environmental abstractions, and API's. This lack usually requires that infrastructure for such applications be built from the hardware up.

## 3 Technical Foundation & Future Work

To date, my research has focused on the technical details needed to enable output on a large surface. Specifically, I have been looking at projective output, using front projection from multiple projectors to allow users to interact with the surface with minimal occlusions (shadows). The goal is to enable the deployment of interactive surfaces where rear projection will not fit or will be too costly. Please refer to the included position paper for details.

## 4 Motivation for Attendance

My short term research goal is the development of a combination recording whiteboard and presentation tool. My long term research involves the resulting infrastructure for large scale interactive surfaces. Specifically, building an infrastructure general enough that it can be used to easily develop other applications. Ideally, the infrastructure that I develop will prove useful to researchers at other institutions developing applications for environments saturated with heterogeneous input and output technologies. I wish to base my technology development upon the advice of what the HCI community feels are the challenging human-centered problems.