

# Designing Intelligent Interactive Systems



Krzysztof Gajos

Assistant Profesor, Computer Science Associate Professor, Computer Science

## CURRENT RESEARCH

### Using machine learning to enhance human efficiency, learning and creativity

The intelligent interactive systems currently designed are typically too inaccurate and cumbersome to be useful; as a result people avoid them in favor of performing tasks manually. Dr. Krzysztof Gajos, Associate Professor of Computer Science at Harvard University, is designing more user-friendly systems that enable novel ways of interacting with computation. Using machine-learning algorithms and artificial intelligence, Dr. Gajos is revolutionizing the way humans and computers interact with one another. The development of useful and predictable interactive systems will benefit education, enhance creative development, and improve computer usability for people with disabilities.

There is difficulty in developing intelligent interactive systems, or systems that combine user interaction and machine learning, that are controllable, useful, and predictable despite the underlying technology being somewhat unpredictable and sometimes incorrect. Harvard University's Dr. Krzysztof Gajos is an Associate Professor of Computer Science working with these technologies to develop useful and efficient interactive systems that are helpful, rather than difficult, for the user.

Dr. Gajos' research is centered around making intelligent interactive systems more predictable and controllable, and therefore more useful, across a variety of disciplines and applications.

- 1 One of the newest projects in Dr. Gajos' lab is the development of tools that allow communities to share in the collaborative creative experience. Using current methods, a group of 1000 individuals instructed to brainstorm solutions to a problem will yield many duplicate solutions, with the remaining individuals sharing in a...

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## AFFILIATION



Harvard University

## AWARDS

- Best Paper Award at ACM CHI, 2013
- Alfred P. Sloan Research Fellowship, 2013
- William Chan Memorial Dissertation Award, 2008
- Best Paper Award at ACM CHI, 2008
- Microsoft Graduate Research Fellowship, 2005-2007

## RESEARCH AREAS

Technology, Computational Sciences / Mathematics, IOT, Devices, Data

## FUNDING REQUEST

Your contributions will allow for purchasing of state-of-the-art hardware and the updating of software technology crucial in developing interactive systems. Since much of the work that goes into creating these system is designing software, graduate students are very important to the process, and funding will allow Dr. Gajos the resources to hire talented and motivated individuals.

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