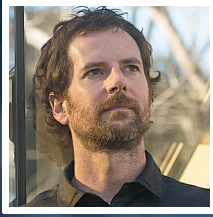


# Designing a World That Teaches Itself



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## CURRENT RESEARCH

### Leveraging human-computer interaction

New challenges, cultural values, and technologies are changing design — and vice versa. Pervasive networked devices have freed design from the confines of the lab: design increasingly roams at large. Many of these designs meld the physical, digital, and social worlds creating a rich setting to explore new applications of design. Online learning is one such application that has greatly benefited from this melting pot -- the successes are tremendously exciting as we are building systems that enable increasing amounts of people from around the world to learn new skills, but the failure rate is high. Herein lies the challenge.

Today, college is still one of the few windows of opportunity where we can explore and hone new material. Our geographic location can define the level of education we can receive. And our economic status or learning style confounds our ability to master new material.

Imagine a world in which these issues no longer apply. Anyone, at anytime, anywhere can master new skills. A farmer in Papua New Guinea can master the principles of business, so he can have the tools he needs to manage the earnings from his crop. A teenager in El Salvador is able to master Web development so she can create websites to globally communicate her community's involvement in eradicating child migration. A single father is able master child nutrition at his own pace, whenever he has the opportunity to complete his assignments.

What exactly would it take make this world a reality, and to design and offer global, life-long mastery learning? We need to design an environment that scales without confounding quality: where students can learn at their own pace, and where we foster an...

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## AFFILIATION

 University of California, San Diego

## EDUCATION

- Ph.D. in Computer Science in Electrical Engineering and Computer Sciences 2004 ,University of California, Berkeley
- M.S. in Computer Science 2001 ,University of California, Berkeley

## AWARDS

- Katayanagi Emerging Leadership Prize
- NSF CAREER award

## RESEARCH AREAS

Education, Technology

## FUNDING REQUEST

Your donations support Dr. Klemmer and his students' pursuit in learning the tools to create and design technologies that bring people joy, rather than frustration, to our online-driven world.

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