

Creating Inclusive and Empowering Technologies



Gillian Hayes

Robert A. and Barbara L. Kleist Chair, in Informatics

CURRENT RESEARCH

Giving a voice to all in the design process

Imagine for a moment the lunch hour for a child on the autism spectrum; navigating social situations, a variety of sensory information, and new experiences all at once can be an overwhelming and challenging adjustment. Fortunately, technologies are being developed to help facilitate social navigation for traditionally underrepresented populations in addition to technologies that can track or monitor their progress. Dr. Gillian Hayes, Director of the Social and Technological Action Research group at the University of California, Irvine, focuses on vulnerable populations and others who traditionally do not have a voice in the design process to create technologies in ways that are empowering and inclusive, and provide rigorous empirical analysis. In addition, she hopes to help deploy technologies that collect data that can be understood and used by vulnerable populations for necessary resources and services. Through her work, Dr. Hayes hopes to help those most in need and find new patterns of thinking and designing that will support everyone.

Dr. Hayes' research is truly translation, spanning fundamental science to applied; following the full lifecycle of technologies, she works to understand human needs, make things that work, deploy them, and study their effects. All the while, she and her team work closely with people from a variety of disciplines, countries, and nonprofits as well as directly with community members seeking services. By using novel interactive technologies—such as ubiquitous, wearable, and social computing systems—Dr. Hayes and her team necessarily collect, use, and store vast amounts of personal data. Thus, her research facilitates the ways in which people are represented in databases and...

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AFFILIATION



University of California, Irvine

EDUCATION

- Ph.D., in Computer Science, 2007, Georgia Tech

AWARDS

- UCI School of ICS Dean's Award for Undergraduate Teaching
- UCI Celebration of Teaching Award for Pedagogical Innovation
- UCI Chancellor's Award for Excellence in Undergraduate Research
- NSF CAREER Award
- Kavli Fellow, National Academy of Sciences

RESEARCH AREAS

Technology, Informational Sciences / Internet, IOT, Devices, Data, Neurological / Cognitive

FUNDING REQUEST

Your contributions will support the continued research of Dr. Gillian Hayes, of the University of California, Irvine, as she brings under-represented and vulnerable populations into the design process. Donations will fund the necessary \$50-70K required for each student, \$10-20K required for hardware, and \$20K required for travel each year. Dr. Hayes also runs camps and workshops to allow teachers, parents, and students with disabilities to participate in the design process. A donation of \$10-20K can support a series of these workshops. Join Dr. Hayes in developing tools that serve vulnerable populations in novel and impactful ways.