Patrice (Polly) Tremoulet

Associate Professor
Psychology

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Education:
BSE (Civil Engineering and Operations Research), Princeton University
MS (Operations Research), Stanford University
MS & PhD (Psychology), Rutgers University

Research Expertise:
Human Factors | Cognitive Psychology | Clinical Informatics

My research uses information about human behavior, abilities and limitations to design and evaluate tools that improve safety, productivity, and/or health. I have over two decades of applied human factors research experience in industry where I developed expertise in designing, evaluating and improving technologies and work processes, including building prototypes to demonstrate how novel technologies can be leveraged to enable more effective human-system performance. I am currently leading an effort at Children's Hospital of Philadelphia exploring how to ensure that children can ride safely in self-driving vehicles and I recently completed a project funded by ECRI Institute that focused on improving the usability of the discharge documents that are generated by electronic health records.

Honors and Awards:
Honors Night Award (highest division award for superior performance – Lockheed Martin) 2006
Twelve Lockheed Martin Special Recognition Awards for engineering excellence 2003-2012
National Institute of Health (NIH) Graduate Fellowship 1999-2000
"Best in state" MS thesis award, NJ-American Psychological Association (APA) 1997
Fellow, Summer Institute in Cognitive Neuroscience, University of California Davis 1995
Rutgers Excellence Fellowship 1994-1996

Member of:
Human Factors and Ergonomics Society (http://www.hfes.org//Web/Default.aspx)
Association for the Advancement of Medical Instrumentation (AAMI) (http://www.aami.org/index.aspx)

Recent Publications:

Tremoulet PD, McManus M, Baronov D (2017) Rendering ICU data useful via formative testing of Tracking, Trajectory, Trigger (T3) software. In Proc 2017 Int Sym Human Factors Ergonomics in Healthcare pp. 50-56, Washington, DC: Sage Publishing.

Bonnette B, Suggs J, Tremoulet PD (2017) How useful are handheld ECG monitors? In Proc 2017 Int Sym Human Factors Ergonomics in Healthcare pp 154-158, Washington, DC: Sage Publishing.

Craven PL, Tremoulet PD, Regli SH (2017) Incorporating Human Systems Engineering in Advanced Military Technology Development. In Cognitive Systems Engineering: An Integrative Living Laboratory Framework M McNeese, PK Forster, eds. pp. 341-362, Boca Raton, FL: CRC Press.