

# HUNTLEY-FENNERADVISORS

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**Gavin Huntley-Fenner, Ph.D.**

## **Professional Profile**

Dr. Gavin Huntley-Fenner is a human factors and safety consultant with a unique problem-solving skill set and communication style developed over 20 years as a researcher, author, educator and business consultant. He regularly provides consumer product hazard analyses and has served as an expert witness for matters relating to risk perception, instruction manuals, warnings, labeling, safety and human development, human reaction time and decision-making.

Dr. Huntley-Fenner's consulting and forensic projects have involved a wide variety of types of products, including consumer products, professional products, pharmaceuticals, medical devices and human behavior in a variety of environments including homes, schools, workplace and daytime and nighttime outdoor contexts. Dr. Huntley-Fenner's research and consulting employ a range of tools including literature reviews, incident database analyses, statistical modeling, experimental design, hazard and risk analyses, and specific human behavioral research methods such as surveys and human subjects testing.

His recent research has focused on the impact of risk perception and design on product safety, an analysis of online consumer reviews for child safety related content, a review of the effectiveness of auditory and visual warnings at railroad grade crossings, and a study on the impact of environmental signs on perceived risk. In 2014/2015, Dr. Huntley-Fenner helped to organize a workshop at the National Academy of Sciences on risk communication related to scientific uncertainty. Dr. Huntley-Fenner's recent publications include "Human Factors" in "Communicating Risks and Benefits: An Evidence-Based User's Guide", "Risk Communication and Perceptions for Highly Beneficial Medical Devices and Pharmaceuticals with Limited Scientific Evidence for Adverse Consequences" and an LA Times Op Ed: "Ebola lapses show lab safety protocols should factor in human error".

Dr. Huntley-Fenner has been invited to speak at national and international scientific and nonscientific gatherings on topics ranging from basic and applied research to forensic consulting and to education. He served as a member of the United States Food and Drug Administration Risk Communication Advisory Committee (2010-2014) and California's Statewide Committee on Autism and Education (2007).

Prior to focusing full-time as a human factors consultant (HFA 2009-present and Exponent 2004-2009), Dr. Huntley-Fenner was a business consultant at McKinsey & Company (2001-2003). He began his professional career as an Assistant Professor at the University of California, Irvine (1995-2001). While on the UCI faculty, Dr. Huntley-Fenner's National Science Foundation-supported research focused on problem solving, language processing and language development, cognitive development, and normal and abnormal brain development. From 2005 through November 2013, Dr. Huntley-Fenner served on the Irvine Unified School District Board, including 2 terms as Board President.

**Selected Academic Credentials, Professional Honors and Community Service**  
Ph.D. Brain and Cognitive Sciences, Massachusetts Institute of Technology, 1995  
B.A., Cognitive Sciences, Vassar College (*with honors*), 1990

Phi Beta Kappa  
Sigma Xi Scientific Research Society  
National Science Foundation Post-Doctoral Scholar (1995–1996)

Department of Education Chair’s Advisory Board, University of California, Irvine (2009–current)  
Member, U.S. FDA Risk Communication Advisory Committee (2010–2014)  
Member, U.S. Virtual Technical Advisory Group (VTAG) contributing revisions to ISO/IEC  
Guide 50: Guidelines for child safety (2012–2014)  
United States Army Southern California Community Advisory Board (2008–2012)  
Board Member, Black Alumni Association of Massachusetts Institute of Technology (2010–2012)  
Elected Member/Clerk/President, Irvine Unified School District Governing Board (2005–2013)

## **Publications**

### *Peer-Reviewed Publications*

Huntley-Fenner, G. Human Factors. In *Communicating Risks and Benefits: An Evidence-Based User’s Guide*. B. Fischhoff, N.T. Brewer and J.S. Downs (Eds). Washington DC: United States Food and Drug Administration, 2011.

Huntley-Fenner G, Harley E, Trachtman D, Young D. ANSI Z535.6 and conspicuity: A test of the new state of the art format for instructional manuals. *Proc Human Factors Ergon Soc* 2007; 51:1029–1033.

Huntley-Fenner G. Warnings and pedestrian behavior: A case study of unintended effects. *Proc Human Factors Ergon Soc* 2006; 50:2202–2206.

Huntley-Fenner G, Arndt S, Sanders K. Case study: Pedestrian behavior at grade crossings. *Proc Int Conf Indust Engin Theory Applic Practice* 2005; 10:69–73.

Young D, Huntley-Fenner G, Trachtman D, Krauss D. Human performance issues in auditory collision-avoidance systems. *Proc Int Conf Indust Engin Theory Applic Practice* 2005; 10:64–68.

Huntley-Fenner G, Carey S, Solimando A. Objects are individuals but stuff doesn’t count: Perceived rigidity and cohesiveness influence infants’ representations of small groups of discrete entities. *Cognition* 2002; 85(3):203–221.

Uller C, Carey S, Huntley-Fenner G, Klatt L. What representations might underlie infants’ numerical knowledge? *Cognitive Develop* 2001; 14:1–26.

Huntley-Fenner G. Children’s understanding of number is similar to adults’ and rats’: Numerical estimation by 5- to 7-year-olds. *Cognition* 2001; 78(3):B27–40.

Huntley-Fenner G. Why count stuff?: Young preschoolers do not use number for measurement in continuous dimensions. *Develop Sci* 2001; 4(4):456–462.

Huntley-Fenner G, Cannon E. Preschoolers' magnitude comparisons are mediated by a preverbal analog mechanism. *Psychol Sci* 2000; 11(2):147–152.

Huntley-Fenner G. The effect of the whole object bias on preschoolers' understanding of collective nouns. *Proc 27th Child Language Research Forum* 1995; 27:145–155.

*Peer-Reviewed Published Abstracts*

Bernal, A. Huntley-Fenner, G., Kerger, B. & Paustenbach, D. Risk Communication and Perceptions for Highly Beneficial Medical Devices and Pharmaceuticals with Limited Scientific Evidence for Adverse Consequences. 54th Annual Meeting of the Society of Toxicology, San Diego, CA. March 22-26, 2015.

Huntley-Fenner G and Munro M. Could we have seen it coming?: On the prospect of mining online consumer review data in order to forecast product safety issues. American Marketing Association Marketing and Public Policy Conference. Washington, DC May 28-30, 2009.

Huntley-Fenner G, Wood CT, Sala JB. Study of the impact of California's Proposition 65 warnings on safety related awareness and behaviors. *Society for Risk Analysis Proceedings Abstracts*, San Antonio TX, December 9–12, 2007.

Babb K, Gage N, Perales O, Huntley-Fenner G, Hickok G. Tonal, verbal, and spatial memory span in Williams syndrome. *Cognitive Neuroscience Society Abstracts* 1998; 5:79.

Huntley-Fenner G, Duclos A, Iliescu A, Babb K, Gage N, Hickok G, Perales O. Knowledge of count/mass syntax in Williams syndrome. *Cognitive Neuroscience Society Abstracts* 1998; 5:80.

Gage N, Huntley-Fenner G, Hickok G. Grammatical competence in Williams syndrome. *Cognitive Neuroscience Society Abstracts* 1998; 5:81.

Huntley-Fenner G, Xu F. Further evidence for infants' numerical competence. *Infant Behavior and Development* 1998; 21:216.

Huntley-Fenner G, Hanson D. Evidence for the anticipation of material kind in infants' reaching for objects and portions of sand. *Infant Behavior and Development* 1998; 21:476.

Huntley-Fenner G. The quantification of portions of nonsolid substances. *Infant Behavior and Development* 1996; 19(1):522.

*Selected Other Publications including Op Eds*

Huntley-Fenner, G. Op Ed: Ebola lapses show lab safety protocols should factor in human error, *Los Angeles Times*, January 2, 2015

Huntley-Fenner G. How will the Searchable Consumer Product Safety Incident Database Improve Product Safety? Analysis and Perspective, *Product Safety and Liability Reporter* (Bureau of National Affairs). November 9, 2009.

Huntley-Fenner G. A Human Factors perspective on summer safety. *Industrial Heating – International Journal of Thermal Technology*. July 2008. Vol. 75, Iss. 7; p. 22.

Huntley-Fenner G. Letter to the Editor: Autism and rainfall hypothesis. Wall Street Journal, March 9, 2007.

Huntley-Fenner G. We have obligations to speak up. Irvine World News Op-Ed, September 15, 2005.

### **Planning and Organization of Forums/Workshops/Conferences**

Member of the Planning Committee for the workshop on Characterizing and Communicating Uncertainty in the Assessment of Benefits and Risks of Pharmaceutical Products, Washington DC, February 12-13, 2014.

### **Books/Edited Volumes/Committee Reports**

National Research Council and Institute of Medicine. Potential Risks and Benefits of Gain-of-Function Research: Summary of a Workshop. Washington, DC: The National Academies Press, 2015. doi:10.17226/21666.

Forum on Drug Discovery, Development, and Translation; Board on Health Sciences Policy; Institute of Medicine. Characterizing and Communicating Uncertainty in the Assessment of Benefits and Risks of Pharmaceutical Products: Workshop Summary. Washington (DC): National Academies Press (US); 2014 Dec 19.

Autism Advisory Committee. A call for action: Improved services for children with autism spectrum disorders. California Superintendent of Public Instruction Autism Advisory Committee Final Report, August 30, 2007.

A Call for Action: Improved Services for Children with Autism Spectrum Disorders. Sacramento, CA. California Superintendent of Public Instruction Autism Advisory Committee. August 30, 2007. Final Report. Available from <http://www.caspwebcasts.org/pdfs/ctoctl.pdf>

### **Presentations**

#### *Selected Invited Colloquia and Seminars*

Huntley-Fenner G. Panelist and presenter on “Human Error” at the Board on Life Sciences Policy; Institute of Medicine. Gain-of-Function Research: The Second Symposium. Washington, DC, March 10-11, 2016.

Huntley-Fenner G. Discussion Leader/Facilitator. “Ecological Validity”. Symposium conducted at the 2016 Grantee Meeting on Emerging Research on Tobacco Product Warnings: Advancing Theory and Methods. National Cancer Institute. Chicago, IL, March 1, 2016.

Huntley-Fenner G. Panel Chair and presenter on “Risk Communication: Exploring the impact of litigation on the content and the effectiveness of communicating risks and benefits.” At the ABA Current Issues in Pharmaceutical, Medical Device and Biotech Litigation CLE. New York, NY, October 2, 2015.

Huntley-Fenner G. Panelist and presenter on “What Can Human Factors Research Tell Us About Using New Information for Decision Making?” at the “Implementation and Adoption of Next Generation Diagnostic Systems in Far Forward Military Settings” for the Committee on Support

to the Department of Defense Programs to Counter Biological Threats. Washington, DC, February 5-6, 2015.

Huntley-Fenner G. Panelist and presenter on “Human Factors” at the Board on Life Sciences Policy; Institute of Medicine. Risks and Benefits of Gain-of-Function Research: A Symposium. Washington, DC, December 15-16, 2014. Published as National Research Council and Institute of Medicine. Potential Risks and Benefits of Gain-of-Function Research: Summary of a Workshop. Washington, DC: The National Academies Press, 2015. doi:10.17226/21666.

Huntley-Fenner G. Panelist and presenter on “The Role of Human Factors” at the Forum on Drug Discovery, Development, and Translation; Board on Health Sciences Policy; Institute of Medicine. Characterizing and Communicating Uncertainty in the Assessment of Benefits and Risks of Pharmaceutical Products. Washington DC. February 13, 2014.

Huntley-Fenner G. Session Chair for “Warning Cues and Detection Aids” panel at the Human Factors and Ergonomics Society Meeting. San Diego CA, October 3, 2013.

Huntley-Fenner G. and Martin R “Incident Investigations in a Risk-Reduction Context” presented to the Longshore Claims Association Roundtable Meeting, San Diego, CA, July 26, 2013.

Huntley-Fenner G. Panelist and presenter for “Warnings and risk communication: navigating the next generation of the regulatory and legal landscape.” Perrin Conferences Continuing Legal Education Webinar, October 19, 2010.

Huntley-Fenner G. “Warnings effectiveness and adequacy.” Continuing Legal Education, Murchison and Cumming, Los Angeles, CA, September 22, 2010.

Huntley-Fenner G. Panelist and presenter for “Expert witnesses at trial: find, prepare and present.” Langston Bar Association, Los Angeles, CA, October 29, 2009.

Huntley-Fenner G. “Failure to warn claims: Science, the law and the limits of common sense.” Orange County Bar Association, Product Liability Group, Continuing Legal Education, Costa Mesa, CA, March 2009.

Huntley-Fenner G. “Consumer product safety.” Continuing Legal Education Webinar, Costa Mesa, CA, December 2008.

Huntley-Fenner G. “Warnings and behavior: a study of pedestrian behavior at grade crossings.” 2008 Rail Corridor Safety Conference. May 12 – 14, 2008, Ventura, California.

Huntley-Fenner G. “WARNING!: Substantial dangers in product liability law (managing failure to warn cases).” Orange County Bar Association Product Liability Group, Irvine CA, July 2007.

Huntley-Fenner G. “Warnings and behavior.” Propane Gas Defense Association Annual Meeting, San Antonio, TX, October 2006.

Huntley-Fenner G. “Warnings and safety.” Snell & Wilmer, Costa Mesa, CA (National Videocast), July 2006.

Huntley-Fenner G. "Introduction to human factors." Morrison and Foerster, Irvine, CA (National Videocast), May 2004.

Huntley-Fenner G. "Young children's understanding of numbers." Keynote address to the Southern California Psychology Conference for Community Colleges, Mission Viejo, CA, 2000.

Huntley-Fenner G. "What does verbal counting have to do with numerical judgments?" Paper presented to the Cognitive Psychology Group in Department of Psychology, University of California, Los Angeles, CA, 1999.

Huntley-Fenner G. "The effect of ratio and magnitude on preschoolers numerical judgments." Paper presented to the Developmental Psychology Group in Department of Psychology, University of California, Los Angeles, CA, 1999.

Huntley-Fenner G. "The effect of material properties on children's judgments of quantity." Paper presented to the Department of Psychology, California State University, San Diego CA, 1998.

Huntley-Fenner G. "The effect of material properties on children's judgments of quantity." Paper presented to the Phi Delta Kappa Society Meeting, Orange Coast Community College, Orange, CA, 1998.

Huntley-Fenner G. "The representation of objects and nonsolid substances in infancy." Paper presented at San Francisco State University, San Francisco, CA, 1997.

Huntley-Fenner G. "The effect of material properties on children's judgments of quantity." Paper presented to the Multivariate Neurocognitive Development Program in the Department of Psychology, University of Southern California, Los Angeles, CA, 1997.

#### *Selected Research Presentations*

Huntley-Fenner, G., Bernal, A., Kerger, B. & Paustenbach, D. Risks of Unintended Health Consequences Associated with Negative Halo Effects. American Marketing Association Marketing and Public Policy Conference. Washington, DC June 4-6, 2-15.

Bernal, A. Huntley-Fenner, G., Kerger, B. & Paustenbach, D. Risk Communication and Perceptions for Highly Beneficial Medical Devices and Pharmaceuticals with Limited Scientific Evidence for Adverse Consequences. 54th Annual Meeting of the Society of Toxicology, San Diego, CA. March 22-26, 2015.

Huntley-Fenner G, Munro M. Could we have seen it coming?: On the prospect of mining online consumer review data in order to forecast product safety issues. American Marketing Association Marketing and Public Policy Conference. Washington, DC May 28-30, 2009.

Huntley-Fenner G. A study of the impact of California's Proposition 65 warnings on safety related awareness and behaviors. Society for Risk Analysis 2007 Annual Meeting. San Antonio TX, December 2007.

Huntley-Fenner G. ANSI Z535.6 and conspicuity: A test of the new state of the art format for instructional manuals. Annual Meeting of the Human Factors and Ergonomics Society, 51st Annual Meeting, Baltimore, MD, October 2007.

Huntley-Fenner G. Warnings and pedestrian behavior: A case study of unintended effects. 50<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA, October 2006.

Huntley-Fenner G. Case study: Pedestrian behavior at grade crossings. 10<sup>th</sup> Annual International Conference on Industrial Engineering—Theory, Applications and Practice, Clearwater, FL., December 2005.

Huntley-Fenner G. Children's understanding of number as similar to adults' and rats': Numerical estimation by 5-, 6-, and 7-year-olds. Biennial Meeting of the Society for Research in Child Development, Minneapolis, MN, 2001.

#### *Selected Workshops and Seminars*

Huntley-Fenner G. Consumer product hazard analysis workshop. Toronto, Canada, March 23, 2010.

Huntley-Fenner G. An introduction to kid safety and quality reviews. Emeryville, CA, October 15, 2009.

Huntley-Fenner G. An introduction to consumer product safety hazard analysis. Toronto, Canada, January 2009.

Huntley-Fenner G. Designing for product safety: compliance and beyond. Emeryville, CA, December 18, 2007.

Huntley-Fenner G. Seminar in language and culture/language and thought. Cincinnati, OH, July 9–15, 2000.

Huntley-Fenner G. Seminar in language and culture/language and thought. Cincinnati, OH, September 1–5, 1998.

#### *Selected Non-Research Related Invited Talks*

Huntley-Fenner G. Panelist and presenter at screening of the education documentary “Race to Nowhere: The Dark Side of American Achievement Culture.” Merage Jewish Community Center of Orange County, Irvine, CA, October 2010.

Huntley-Fenner G. “What do toys, pharmaceuticals and trains have in common?: A former academic talks about consulting, research and publishing in applied settings”, University of California, Irvine CA, October, 2009.

Huntley-Fenner G. “Irvine: A case study in civic geography.” Urban Spaces II: The future of cities, Tilburg, Netherlands, March, 2009.

Huntley-Fenner G. “Careers in cognitive sciences.” Vassar College Cognitive Science Program 25<sup>th</sup> Anniversary, Poughkeepsie, NY, November 2007.

Huntley-Fenner G. “Regarding The Role of Religion in Public Education Settings.” Americans United for the Separation of Church and State, Irvine, CA, March 2007.

**Peer Reviewer**

Human Factors and Ergonomics Society  
Child Development  
Cognition  
Developmental Psychology  
Israel Science Foundation  
Journal of Experimental Child Psychology  
Language and Cognitive Processes  
National Science Foundation  
Psychological Bulletin  
Psychological Science

**Professional Affiliations**

Association for Psychological Science  
American Psychological Association  
Human Factors and Ergonomics Society  
American Railway Engineering and Maintenance-of-Way Association (Technical Committee  
36, Highway-Rail Grade Crossing Warning Systems)  
ASTM Committee Member: E34 Occupational Health and Safety and F15 Consumer Products  
Society for Research in Child Development