

HUNTLEY-FENNERADVISORS

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 more than 15 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 is an educator and certified Continuing Legal Education (CLE) provider, as well as a published author.

Dr. Huntley-Fenner's consulting and forensic projects have involved a wide variety of types of products and situations, including consumer products, professional tools, 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 employs a range of tools including literature reviews, incident database analyses, statistics, experimental design, hazard and risk analyses, and specific human behavioral research methods such as surveys and human subjects testing.

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. Dr. Huntley-Fenner's peer reviewed and invited publications include: "ANSI Z535.6 and conspicuity: A test of the new state of the art format for instructional manuals" (Proceedings of the Human Factors and Ergonomics Society) and "How will the Searchable Consumer Products Safety Incident Database Improve Product Safety" (Analysis and Perspective, Product Safety and Liability Reporter).

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 is a member of the United States Food and Drug Administration Risk Communication Advisory Committee and he served as a member of California's Statewide Committee on Autism and Education.

Prior to focusing full-time as a human factors consultant, Dr. Huntley-Fenner was a business consultant at McKinsey & Company. He began his professional career as an Assistant Professor at the University of California, Irvine. 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. Since 2005, Dr. Huntley-Fenner has served as a Governing Board Member of the Irvine Unified School District.

Select Academic Credentials, Professional Honors & 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)

Irvine Unified School District Governing Board (2005-current)

United States Army Southern California Community Advisory Board (2008-current)

Department of Education Chair's Advisory Board, University of California, Irvine (2009-current)

Board Member, Black Alumni Association of Massachusetts Institute of Technology (2010-current)

Publications

Peer-Reviewed Papers

Huntley-Fenner, G. (2011). Human Factors. In *Communicating Risks and Benefits: An Evidence-Based User's Guide*. B Fischhoff, NT Brewer and JS Downs (Eds). Washington DC: United States Food and Drug Administration.

<http://www.fda.gov/AboutFDA/ReportsManualsForms/Reports/ucm268078.htm>

Huntley-Fenner G, Safety information embedded in online comments and the prediction of emerging hazards. Manuscript in preparation.

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.

Reviewed Abstracts

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.

Other

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.

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.

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.

Presentations

Invited Colloquia and Seminars, 1997 onwards

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.

Peer Reviewed Research Presentations, 1997 onwards

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. 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA, October 2006.

Huntley-Fenner G. Case study: Pedestrian behavior at grade crossings. 10th 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.

Huntley-Fenner G. How do native Chinese/Japanese speakers treat count-mass in English. Language, Culture, and Cognition Meeting, Leiden University, NH, 2000.

Huntley-Fenner G. Effects of perceived rigidity and cohesiveness on object tracking. International Conference on Infant Studies, Brighton, UK, 2000.

Huntley-Fenner G. Infants’ expectation of quantity varies with material kind. Biennial Meeting of the Society for Research in Child Development, Albuquerque, NM, 1999.

Huntley-Fenner G. The effect of material kind on preschoolers’ judgments of quantity. Biennial Meeting of the Society for Research in Child Development, Albuquerque, NM, 1999.

Huntley-Fenner G. Further evidence for infants' numerical competence. International Conference on Infant Studies, Atlanta, GA, 1998.

Huntley-Fenner G. Evidence for the anticipation of material kind in infants' reaching for objects and portions of sand. International Conference on Infant Studies, Atlanta, GA, 1998.

Huntley-Fenner G. The effect of material kind on children's judgments of quantity. 28th Annual Symposium of the Jean Piaget Society, Chicago, IL, 1998.

Huntley-Fenner G. Knowledge of language in adults with Williams Syndrome. 6th Conference on the Neurobiology of Learning and Memory, Irvine, CA, 1997.

Huntley-Fenner G. Children's use of numerical and non-numerical cues to make judgments of quantity. 27th Annual Symposium of the Jean Piaget Society, Santa Monica, CA, 1997.

Huntley-Fenner G. The anticipation of material kind in reaching. Biennial Meeting of the Society for Research in Child Development, Washington, DC, 1997.

Huntley-Fenner G. Judgments about quantity of noncohesive matter by infants. Biennial Meeting of the Society for Research in Child Development, Washington, DC, 1997.

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 25th Anniversary, Poughkeepsie, NY, November 2007.

Huntley-Fenner G. “An evening with Gavin Huntley-Fenner.” Brit Tikvah Special Education Support Group, Temple Shir Ha’Ma’a lot, Irvine, CA, November 2007.

Peer Reviewer

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

Professional Affiliations

- American Psychological Association
- American Railway Engineering and Maintenance-of-Way Association (Technical Committee 36, Highway-Rail Grade Crossing Warning Systems)
- Association for Psychological Science
- ASTM Committee Voting Member: E34 Occupational Health and Safety and F15 Consumer Products
- Human Factors and Ergonomics Society
- International Society for Infant Studies
- Society for Research in Child Development
- Society for Risk Analysis
- United States Food and Drug Administration Risk Communication Advisory Committee