

Program Publications

2014 Publications

- Barton, B. K., & Kologi, S. (in press). Why do you keep them there? A qualitative assessment of firearms storage practices. *Journal of Pediatric Nursing*.
- Ulrich*, T., & Barton, B. K. (in press). Detection and Localization of Approaching Vehicles in the Presence of Competing Vehicle Noise. *Transportation Research Part F: Traffic Psychology and Behaviour*.
- Schwebel, D. C., Barton, B. K., Shen, J., Wells, H., Bogar, A., Heath, G. & McCullough, D. (in press). Systematic review of behavioral interventions to improve child pedestrian safety: A meta-analysis. *Journal of Pediatric Psychology*.

2013 Publications

- Barton, B. K., Lew, R., Kovesdi, C., Cottrell, N. D., & Ulrich, T., (2013). Developmental differences in auditory detection and localization of approaching vehicles. *Accident Analysis and Prevention*, <http://dx.doi.org/10.1016/j.aap.2012.12.040>
- Cottrell, N. D., & Barton, B. K. (2013). The role of automation in reducing stress and negative affect while driving. *Theoretical Issues in Ergonomics Science*, 14, 53-68.
- Jackson, R. E. Cook, T. C., & Seitz, A. (2013). *Context is quick, knowledge is slow, rapid time-course of contextual modulations in the horizontal-vertical illusion*. Manuscript in revision for publication at *Perceptual & Motor Skills*.
- Jackson, R. E. & Willey, C. R. (2013). *Evolved navigation theory and the plateau illusion*. Manuscript accepted pending minor revision at *Cognition*.
- Jackson, R. E. Willey, C. R., & Cormack, L. K. (2013). *Learning and exposure affect environmental perception less than evolved navigation costs*. Manuscript in revision for publication at *PLoS One*.
- Jackson, R. E. (2013). Preference for the nearer of otherwise equivalent navigational goals quantifies behavioral motivation and natural selection. *PLoS ONE* 8(1), 1-4. doi: 10.1371/journal.pone.005
- Willey, C. R. & Jackson, R. E. (2013). *Watch your step: Environmental distance perception and visual context*. Manuscript under review at *Journal of Experimental Psychology: Human Perception and Performance*.

2012 Publications

- Barton, B. K., Ulrich, T., & Lyday, B. (2012). The roles of gender, age, and cognitive development in children's pedestrian route selection. *Child: Care, Health, and Development*, 38, 280-286.
- Barton, B. K., Ulrich, T. A., Lew, R. (2012). Auditory detection and localization of approaching vehicles. *Accident Analysis and Prevention*, 49, 347-353.

- Cottrell, N. D., & Barton, B. K. (2012). The Impact of Artificial Vehicle Sounds for Pedestrians on Driver Stress. *Ergonomics*, 55, 1476-1486.
- Kovesdi, C., Barton, B. K., & Rice, L. (2012). Visual Efficiency-Detection Index: A New Composite Measure of Visual Search. *Journal of Eye-Tracking, Visual Cognition and Emotion*, 2, ISSN 1647-7677.

2011 Publications

- Barton, B. K., & Huston, J. (2011). The roles of child, parent, and environmental factors in pedestrian supervision. *International Journal of Injury Control and Safety Promotion*, 19, 153-162.
- Barton, B. K., & Morrongiello, B. A. (2011). Examining the impact of traffic environment and executive functioning on children's pedestrian behaviors. *Developmental Psychology*, 47, 181-192.

2010 Publications

- Lew, R., Dyre, B.P., Soule, T., Ragsdale, S.A., & Werner, S. (2010). Assessing Mental Workload From Skin Conductance and Pupillometry Using Wavelets and Genetic Programming. In *Proceedings of the 54th annual meeting of the Human Factors and Ergonomics Society*. San Francisco, CA.

2009 Publications

- Morrongiello, B. A., & Barton, B. K. (2009). Child Pedestrian Safety: Parental Supervision, Modeling Behaviors, and Beliefs about Child Pedestrian Competence. *Accident Analysis and Prevention*, 41, 1040-1046.
- Morrongiello, B. A., Cusimano, M., Barton, B. K., Orr, E., Chipman C., Tyberg, J., Kulkarni, A., Khanlou, N., Masi, R., & Bekele, T. (2009). Development of the BACKIE Questionnaire: A measure of children's behaviors, attitudes, cognitions, knowledge, and injury experiences related to seven types of unintentional injury. *Accident Analysis and Prevention*, 41, 1040-1046.
- Werner, S. (2009). Flash/XML based experimentation shells for psychological research. Paper presented at the 39th Annual Meeting of the Society for Computers in Psychology, Boston, MA, Thursday, November 19, 2009.

2008 Publications

- Johnson, K. & Werner, S. (2008). Graphical User Authentication – A comparative evaluation of Composite Scene Authentication (CSA) vs. three competing graphical passcode systems (Passfaces, VIP, PassPoints). In *Proceedings of the 52nd annual meeting of the Human Factors and Ergonomics Society*. Baltimore, MD.
- Lew, R., Dyre, B., Wotring, B. Werner, S., & Tran, T. (2008). Exploring the Potential of Short-Time Fourier Transforms for Analyzing Skin Conductance and Pupillometry in Real-Time Applications. In *Proceedings of the 52nd annual meeting of the Human Factors and Ergonomics Society*. Baltimore, MD.

- Morrongiello, B. A., Cusimano, M., Orr, E., Barton, B. K., Chipman, M., Tyberg, J., Kulkarni, A., Khanlou, N., Masi, R., & Bekele, T. (2008). School-age children's safety attitudes, cognitions, knowledge, and injury experiences: Do these affect their safety practices? *Injury Prevention*, 14, 176-179.
- Werner, S. (2008). GoCognitive.net – a new online center for teaching materials. Poster presented at the annual meeting of the Psychonomic Society, November 13–16, 2008, Chicago.

2007 Publications

- Johnson, K. & Werner, S. (2007, September). Memorability of Alphanumeric and Composite Scene Authentication (CSA) Passcodes Over Extended Retention Intervals. In Proceedings of the 51st annual meeting of the Human Factors and Ergonomics Society, 434-438. Baltimore, MD.

2006 Publications

- Johnson, K. & Werner, S. (2006, October). Using Composite scene authentication (CSA) as a graphical alternative to alphanumeric password systems. In Proceedings of the 50th annual meeting of the Human Factors and Ergonomics Society, 661-665. San Francisco, CA.
- Viita, D. & Werner, S. (2006, October). Alignments Effects on Simple Turn Decisions in Track-up and North-up Maps. In Proceedings of the 50th annual meeting of the Human Factors and Ergonomics Society, 1519-23. San Francisco, CA. (*awarded best student presentation by HFES Perception and Performance Technical Group)

2004 Publications

- Diedrichsen, J., Werner, S., Schmidt, T., & Trommershäuser, J. (2004). Immediate spatial distortions of pointing movements induced by visual landmarks. *Perception & Psychophysics*. 66, 89-103.
- Jacobson, J. & Werner, S. (2004). Why cast shadows are expendable: Insensitivity of human observers and the inherent ambiguity of cast shadows in pictorial art. *Perception*, 33, 1369-1383.
- McNamara, T.P., Rump, B., & Werner, S. (2004). Egocentric and geocentric frames of reference in memory of large-scale space. *Psychonomic Bulletin & Review*. 10, 589-595.
- Werner, S. & Schindler, L.E. (2004). Misaligned local reference systems in floorplan layout impair wayfinding performance. *Environment & Behavior*. 36, 461-482.

2003 Publications

- Werner, S. and Long, P. (2003). Cognition meets LeCorbusier: Cognitive principles of architectural design. To appear in C. Freksa, et al. (Eds.), *Spatial Cognition III*. (pp. 112-126). Berlin: Springer.