

Program Publications

2018 Publications

- *Becker J.J., Copeland S.L., *Botterbusch E.L., Cohen, R.G. (2018). Preliminary evidence for feasibility, efficacy, and mechanisms of Alexander technique group classes for chronic neck pain. *Complementary Therapies in Medicine* 39 (2018) 80–86. PMID: 30012397

2017 Publications

- Cohen, R.G., Nutt, J.G., Horak, F.B. (2017) Recovery from multiple APAs delays gait initiation in Parkinson's disease. *Frontiers in Human Neuroscience*, 11, 60. PMID: 28261073
- De Lima-Pardini, A.C., de Azevedo Neto, R.M., Coelho, D.B., Boffino, C.C., Shergill, S.S., de Oliveira Souza, C., Brant, R., Barbosa, E.R., Cardoso, E.F., Teixeira, L.A., Cohen, R.G., Horak, F.B., Amaro, E. Jr. (2017). An fMRI-compatible force measurement system for the evaluation of the neural correlates of step initiation. *Scientific Reports*, 7, 43088. PMID: 28230070

2016 Publications

- Mancini, M., Smulders, K., Cohen, R.G., Horak, F.B., Giladi, N., Nutt, J.G. (2016). The clinical significance of freezing while turning in Parkinson's disease. *Neuroscience*, 343, 222-228. PMID: 27956066
- Cohen, R.G., Vasavada, A.N., Wiest, M., Schmitter-Edgecombe, M. (2016). Mobility and upright posture are associated with different aspects of cognition in older adults. *Frontiers in Aging Neuroscience*, 8:257. PMID: 27877123
- Peterson, D.S., King, L.A., Cohen, R.G., Horak, F.B. (2016). Cognitive contributions to freezing of gait in Parkinson disease – Implications for physical rehabilitation. *Physical Therapy Journal*, 96, 659-670. PMID: 26381808

2015 Publications

- Cohen, R.G., Gurfinkel, V.S., *Kwak, E., *Warden, A.C., Horak, F.B. (2015). Lighten up: Specific postural instructions affect axial rigidity and step initiation in patients with Parkinson's disease. *Neurorehabilitation & Neural Repair*, 29, 878-888. PMID: 25665828

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*
- Peterson, D.S., Fling, B.W., Mancini, M., Cohen, R.G., Nutt, J.G., Horak, F.B. (2014).

Dual-task interference and brain structural connectivity in people with Parkinson's disease who freeze. *Journal of Neurology, Neurosurgery, & Psychiatry*, 86, 786-792. PMID: 25224677

- Fling, B.W., Cohen, R.G., Mancini, M., Carpenter, S.D, Fair, D.A., Nutt, J.G., Horak, F.B. (2014). Functional reorganization of the locomotor network in Parkinson patients with freezing of gait. *PloS One*, 17; 9(6): e100291. PMID: 24937008
- Cohen, R.G., Klein, K.A., *Nomura, M., *Fleming, M., Mancini, M., Giladi, N., Nutt, J.G., Horak, F.B. (2014). Inhibition, executive function, and freezing of gait. *Journal of Parkinson's Disease*, 4, 111-122. PMID: 24496099

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*.
- Lomond, K.V., Henry, S.M., Jacobs, J.V., Hitt, J.R., Horak, F.B., Cohen, R.G., DeSarno, M. (2013). Protocol to assess the neurophysiology associated with multi-segmental postural coordination. *Physiological Measurement*, 34, N97-N105. PMID: 24065623
- Fling, B.W., Cohen, R.G., Mancini, M., Nutt, J.G., Fair, D.A., Horak, F.B. (2013). Asymmetric pedunculopontine network connectivity in parkinsonian patients with freezing of gait. *Brain*. 136, 2405-2418. PMID: 23824487

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.

- Cohen, R.G., Horak, F.B., Nutt, J.G. (2012). Peering through the FoG: Visual manipulations shed light on freezing of gait. *Movement Disorders*, 27, 470-472. PMID: 22488859
- *Papegaaij, S., Smith, B., de Lima, A.C., Cohen, R.G., Horak, F.B. (2012) Keeping your balance while balancing a cylinder: Interaction of voluntary and postural goals. *Experimental Brain Research*. 223, 79-87. PMID 22965549
- *deLima-Pardini, A.C., Papegaaij, S., Cohen, R.G., Teixeira, L.A., Smith, B.A., Horak, F.B. (2012). The interaction of postural and voluntary strategies for stability in Parkinson's disease. *Journal of Neurophysiology*, 108, 1244-1252. PMID: 22673326
- Cohen, R.G. & Sternad, D. (2012). State space analysis of timing: Exploiting task redundancy to reduce sensitivity to timing. *Journal of Neurophysiology*, 107, 618-627. PMID: 22031769

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., Kulkarini, 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., Kulkarini, 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.