

Curriculum Vitae

S. CAMILLE PERES, PH.D.

Department of Environmental & Occupational Health
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Education

Ph.D. Psychology, May 2005, Department of Psychology, Rice University.

Dissertation: Software Use in the Workplace: A Study of Efficiency

Advisor; David Lane: Committee members; Michael Byrne, H. Al Napier, and Christopher Kelty

M.A., Psychology, January 2005, Department of Psychology, Rice University.

Thesis: Dimensions of Sound in Auditory Displays: The Effects of Redundant Dimensions

Advisor; David Lane: Committee members; James Pomerantz and Michael Byrne

M.A., Behavioral Science, December 1996, Department of Psychology, University of Houston-Clear Lake.

Advisor: Kyna Shelley.

B.A., Theatre Arts, May 1990, Department of Theatre, University of Houston-Clear Lake

Academic Positions

Texas A&M University, Assistant Professor: June 2013 - current

Environmental and Occupational Health

Industrial and Systems Engineering

Center for Remote Health Technologies and Systems – Texas A&M University

Research Fellow: January 2016 - current

Mary Kay O'Connor Process Safety Center – Texas A&M University

Research Fellow: January 2015 - current

Mayo Clinic

Research Affiliate: September 2014 - current

University of Houston-Clear Lake, Psychology

Associate Professor: August 2012 – May 2013

Assistant Professor: 2005-July 2012

Naval Research Lab, Washington, D.C.,

Summer Research Faculty, 2011 & 2012

Adjunct Professor:

Rice University, Psychology, 2007-current

University of St. Thomas, Psychology, Spring 2004

University of Houston-Clear Lake, Psychology, 1999-2001

College of the Mainland, Psychology, 1996-1997

Grants/Contracts

Chevron, ExxonMobil, NovaChemical, and Wyle, “Advanced Procedure Research Study – A Human Factors Approach” Co PI, (2016). Phase 3: \$310,000

National Academy of Science Gulf Research Program. "Factoring in the Human in Offshore Operations: Forces for Scenario Planning" Co-PI, 2016. \$199,398.

National Science Foundation. "Humans, Teams, and Technologies: Human-Team and Team-Machine Interaction in Emergency Response" PI, 2016. \$259,649.

Chevron and ExxonMobil, "Advanced Procedure Research Study – A Human Factors Approach" Co PI, (2015). Phase 2: \$75,000

Ocean Energy Safety Institute "Human Factors in Offshore Oil and Gas Operations" PI, (2015-2017): Funding for doctoral student

Office Ergonomics Research Council. "Validation and application of a self-report measure to assess office ergonomic risks?" Co PI, (2016). \$35,589

Hewlett Packard, "Exploring variables associated with users' satisfaction, performance, and physiological responses based on keyboard attributes", PI, (2015). \$34,977

Center for Operator Performance, "Effective Designs for Procedure Warnings, Cautions, and Notes", PI, (2015). \$36,807

ATR Smart Procedures™ "Improving Procedure Development Through Usability Testing" PI (2014), \$142,300

Mayo Clinic Robert D. and Patricia E. Kern Center for the Science of Health Care Delivery, "Systems Analysis of Ambulatory Remote Monitoring- CV Pilot" Co PI, (2014). \$10,000

Chevron, "Advanced Procedure Research Study – A Human Factors Approach" Co PI, (2014). Phase 1: \$37,500

Office Ergonomics Research Council. "User Interface Biomechanics: Does the Interaction Design of the User Interface Impact Ergonomic Risk Factors?" Co PI, (2014). \$28,182

Faculty Research Support Fund at the University of Houston-Clear Lake "Ergonomic Impact of Swipe." Co-PI, December, 2012; \$4,000

Faculty Research Support Fund at the University of Houston-Clear Lake "Sonification Techniques for sEMG Data Interpretation and Utilization." Co-PI, March, 2012; \$2,000

Office Ergonomics Research Council. "The Ergonomic Implications of Gesturing: Examining Single and Mixed Use with Appropriate Placement". PI, 2010. \$10,930

National Science Foundation's Division of Undergraduate Education grants. "Collaborative Research: Online Statistics Education: An Interactive Multimedia Course of Study II." PI, 2009. \$126,043

Schlumberger Information Systems, "Software Ergonomics Assessment Tools-Continuation of Work" PI, December 2008, \$100,000

Schlumberger Information Systems, Gift to UHCL of Noldus Information Technology Observer System. PI, December 2007, \$10,000

Schlumberger Information Systems, "Software Ergonomics Assessment Tools" Co-PI, December 2007, \$67,651

National Science Foundation Small Grant for Exploratory Research (SGER) "Efficient Strategy Selection— Predictors and Cognitive Mechanisms" PI, May 2006. \$51,868

Faculty Research Support Fund at the University of Houston-Clear Lake "Evaluation of Online Statistics: An Interactive Multimedia Course of Study." PI, November 2005. \$4,250

National Science Foundation's Division of Undergraduate Education grants DUE 9751307 and DUE 0089435. "Online Statistics: A Multimedia Course of Study" Co-PI, June 2005. \$12,482

Faculty Research Support Fund at the University of Houston-Clear Lake "Effects of Computer Animation Software on Learning Synaptic Transmission Processes." Co-PI, \$2,000

Refereed Publications

1. Mehta, R., **Peres, S. C.**, Kannan, P., Rhee, J., Shortz, A. E., & Mannan, M. S. (in press) Comparison of objective and subjective operator fatigue assessment methods in offshore shiftwork. *Journal of Loss Prevention in the Process Industries*
2. **Peres, S. C.**, Mehta, R. K., & Ritchey, P. (2017). Assessing ergonomic risks of software: Development of the SEAT. *Applied Ergonomics*, 59, 377-386.

3. **Peres, S. C.**, Quddus, N., Kannan, P., Ahmed, L., Ritchey, P., Johnson, W., ... & Mannan, M. S. (2016). A summary and synthesis of procedural regulations and standards—Informing a procedures Writer's guide. *Journal of Loss Prevention in the Process Industries*.
4. **Peres, S. C.**, Verona, D., Nisar, T., & Ritchey, P. (2016). Towards a Systematic Approach to Real-Time Sonification Design for Surface Electromyography. *Displays*.
5. Garrett, G., Benden, M. E., Mehta, R., Pickens, A., **Peres, S. C.**, & Zhao, H. (2016). Call Center Productivity Over 6 Months Following a Standing Desk Intervention. *IIE Transactions on Occupational Ergonomics and Human Factors*. DOI:10.1080/21577323.2016.1183534
6. Kortum, P., & **Peres, S. C.** (2015). Evaluation of Home Health Care Devices: Remote Usability Assessment. *Journal of Medical Internet Research Human Factors*, 2(1), e10.
7. **Peres, S. C.**, Kortum, P. T., Akladios, M., & Muddimer, A. (2015) Developing And Validating A Self-Report Assessment Tool For Software Biomechanics. *Journal of WORK*, (Preprint), 1-12.
8. Hong, Y., Goldberg, D., Dahlke, D. V., Ory, M. G., Cargill, J. S., Coughlin, R., ... & **Peres, S. C.** (2014). Testing Usability and Acceptability of a Web Application to Promote Physical Activity (ICanFit) Among Older Adults. *JMIR Human Factors*, 1(1), e2. (Google Scholar Citations: 7)
9. Kortum, P., & **Peres, S. C.** (2014). The Relationship Between System Effectiveness And Subjective Usability Scores Using The System Usability Scale. *International Journal of Human-Computer Interaction*, 30(7), 575-584. (Google Scholar Citations: 9)
10. Tamborello II, F. P., **Peres, S. C.**, Nguyen, V. D., & Fleetwood, M. D. (2013). Peer-Mediation of the Adoption of Efficient Software Interaction Methods: A Model Based on Priming. *Computers in Human Behavior*, 29(6), 2595-2602.
11. **Peres, S. C.** (2012). A Comparison of Sound Dimensions for Auditory Graphs: Pitch Is Not So Perfect. *Journal of the Audio Engineering Society*, 60(7/8), 561-567. (Google Scholar Citations: 2)
12. McLellan, S., Muddimer, A., & **Peres, S. C.** (2012). The Effect of Experience on System Usability Scale Ratings. *Journal of Usability Studies*, 7(2), 56-67. (Google Scholar Citations: 31)
13. Kortum, P., **Peres, S. C.**, & Stallmann, K. (2011) Extensible Auditory Progress Bar Design: Performance and Aesthetics. *International Journal of Human Computer Interaction*, 27(9), 864-884. (Google Scholar Citations: 4)
14. **Peres, S. C.**, Best, V., Brock, D., Shinn-Cunningham, B., Frauenberger, C., Hermann, T., Neuhoff, J., Nickerson, L., & Stockman, T. (2008). Auditory Interfaces. In P. Kortum (Ed.), *HCI Beyond the GUI: The Human Factors of Non-traditional Interfaces*: Morgan Kaufman, pp. 147-196. (Google Scholar Citations: 15)
15. Lane, D. M., **Peres, S. C.**, Sándor, A., & Napier, H. A. (2005). A process for anticipating and executing icon selection in graphical user interfaces. *International Journal of Human Computer Interaction*, 19 (2), pp. 241-252. (Google Scholar Citations: 19)
16. Lane, D. M., Napier, H.A., **Peres, S. C.**, & Sándor, A. (2005). The Hidden Costs of Graphical User Interfaces: Users' Failures to Make the Transition from Menus and Icon Tool Bars to Keyboard Shortcuts. *International Journal of Human Computer Interaction*, 18 (2), pp. 133-144. (Google Scholar Citations: 70)
17. Lane, D. M., Sándor, A., & **Peres, S. C.** (2004). Sonification. In W. S. Bainbridge (Ed.), *Berkshire Encyclopedia of Human-Computer Interaction* (pp. 669-672). Great Barrington, MA. (Google Scholar Citations: 47)

White Papers/Reports

1. **Peres, S. C.**, Bias, R., Quddus, N., Ahmed, L., Batarse, J.C., & Hoyle, W. S., (2016). Human Factors and Human Systems Integration in Offshore Drilling and Production: The Implications for Drilling Safety. Ocean Energy Safety Institute

Refereed International/National Conference Proceedings

1. Ardoin, W. J., Hoyle, W. S., Bewaji, O., Ferris, T. K., **Peres, S. C.**, Hallbeck, S., Kaplan, R. & Brady, P. A. (2016, September). Real-time remote physiological monitoring: The role of communication in three paradigms of inpatient care. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 618-622). SAGE Publications.
2. Sonaike, I. A., Bewaji, T. A., Ritchey, P., & **Peres, S. C.** (2016, September). The Ergonomic Impact of Swype. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 1374-1378). SAGE Publications.

3. **Peres, S. C.**, Mannan, M. S., & Quddus, N. (2016, May). Effective Procedure Design and Use: What Do Operators Need, When Do They Need It, and How Should It Be Provided?. In *Offshore Technology Conference*. Offshore Technology Conference.
4. Lander, E., & **Peres, S. C.** (2015). Applying Human Factor Principles to Procedure Presentation and Design. Paper presented at the Mary Kay O'Connor Process Safety Center, College Station, Texas USA.
5. **Peres, S. C.**, Quddus, N., Rahmani, S., Kannan, P., Ahmed, L., Ritchey, P., Johnson, W., & Mannan, M. S. (2015). Development of an effective procedure writer's guide using a Human Factors and regulatory compliance approach. Paper presented at the Mary Kay O'Connor Process Safety Center, College Station, Texas, USA.
6. **Peres, S. C.**, Verona, D., & Ritchey, P. (2015, July). The effects of various parameter combinations in parameter-mapping sonifications. In Proceedings of the 21st International Conference on Auditory Display (ICAD 2015).
7. Mehta, R. K., Ferris, T., **Peres, S. C.**, Riddell, M. (2014). Investigating display-related cognitive fatigue in oil and gas operations. 2014 Mary Kay O'Connor Process Safety Center International Symposium, College Station, TX.
8. Ritchey, P., **Peres, S. C.**, & Mehta, R. K. (2014, September). User Interface Biomechanics Does the Interaction Design of the User Interface Impact Ergonomic Risk Factors?. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 58, No. 1, pp. 2003-2007). SAGE Publications.
9. Hoyle, W. S., Bartha, M. C., Harper, C. A., & **Peres, S. C.** (2013, September). Low Profile Keyboard Design: The Effect of Physical Key Characteristics On Typing Productivity and User Preference. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 57, No. 1, pp. 1348-1352). SAGE Publications.
10. **Peres, S. C.**, Pham, T., & Phillips, R. (2013, September). Validation of the System Usability Scale (SUS) SUS in the Wild. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 57, No. 1, pp. 192-196). SAGE Publications.
11. Duffield, T. J., **Peres, S. C.**, Amonette, W., & Ritchey, P. (2013, September). Standard Deviation of sEMG: Measuring the dynamicity of muscle activity. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 57, No. 1, pp. 1400-1404).
12. David, T. Y., **Peres, S. C.**, & Harper, C. (2013, September). How Well Do People Rate Their Performance With Different Cursor Settings?. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 57, No. 1, pp. 1561-1564). SAGE Publications.
13. Kelling, N., Bedwell, W., Corso, G.M., Cuevas, H.M., Keebler, J.R., **Peres, S. C.**, & Walker, B.N. (2013) Life, the Universe, and Academia: Success in Early Career Academia. In Proceedings of the Human Factors and Ergonomics Society 57th Annual Meeting, San Diego, CA, USA.
14. Ritchey, P., **Peres, S. C.**, & Duffield, T. J. (2012, September). Differences in Muscle Activity for 4 Touch Devices. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 56, No. 1, pp. 1594-1598). SAGE Publications.
15. Bruton, K., **Peres, S. C.**, Hoyle, W. S., Ritchey, P., Phillips, P., Gutierrez, T. & Amos, A. (2012) Usability of an Interactive Educational Website for Statistics. In Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting, Boston, MA USA.
16. Bartha, M., **Peres, S. C.**, Harper, C., Holden, K., Meingast, M., Muddimer, A., & Smith, D. (2012) Incorporating industry goals into academic programs: A case study of a successful effort. In Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting, Boston, MA USA.
17. Toy, K. J., **Peres, S. C.**, David, T. Y., Nery, A., & Phillips, R. G. (2012, September). Examining User Preferences in Interacting with Touchscreen Devices. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 56, No. 1, pp. 1862-1866). SAGE Publications.
18. Garcia, A., **Peres, S. C.**, Ritchey, P., Kortum, P.K. & Stallman, K. (2012) Auditory Progress Bars: The effects of Feedback, Endpoint and Free Response on Estimations of Time Remaining. In Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting, Boston, MA USA.
19. Brock, D., **Peres, S.C.**, and McClimens, B (2012). Evaluating Listeners' Attention To And Comprehension Of Serially Interleaved, Rate-Accelerated Speech. In Proceedings of the 20th International Conference on Auditory Displays, (pp. 172-179) Atlanta, GA, USA.
20. Tossell, C. C., Jardina, J. R., Kortum, P. T., **Peres, S. C.**, Shepard, C. W., Rahmati, A., & Zhong, L. (2011, September). Effects of socioeconomic diversity on iPod touch device use in real-world environments. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 55, No. 1, pp. 1293-1297). SAGE Publications.

21. Burks, R. & **Peres**, S. C. (2011). Procedure Classification: Putting Campbell's Objective Complexity Framework to Work for a Petrochemical Company. In Proceedings of the Human Factors and Ergonomics Society 55th Annual Meeting, Las Vegas, NV USA.
22. Garcia, A., & **Peres**, S. C. (2012). Auditory Progress Bars: The effects of Feedback, Endpoint and Free Response on Estimations of Time Remaining. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 56, No. 1, pp. 1674-1678). SAGE Publications.
23. **Peres**, S. C., Kortum, P., Muddimer, A., Akladios, M., & Napit, S. (2011). Ergonomics, software and geophysical interpretation. In Proceedings of the Society for Exploration Geoscientists.
24. Elouri, Y., Akladios, M., **Peres**, S. C., & Amos, A. (2010). Effects of Font Size on Muscle Activity. In Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting, (pp. 1105-1109) San Francisco, CA USA.
25. Kortum, P., **Peres**, S. C., & Stallman, K. (2010). Mental Workload Measures of Auditory Stimuli Heard During Periods of Waiting. In Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting, (pp. 1689-1693) San Francisco, CA USA
26. **Peres**, S. C., Jardina, J. R., & Titus, C. (2010). Utilizing the Keyboard to Issue Commands: Do Self-Efficacy, Goal Orientation, and Computer Anxiety Impact Usage of Efficient Techniques with Software? In Proceedings of the 3rd International Conference on Applied Human Factors and Ergonomics, Miami, FL, USA. Taylor and Francis, pp. 186-195.
27. Ritchey, P., Muse, L., Nguyen, H., Burks, R., & **Peres**, S. C. (2010). Effective Design of Auditory Displays: Comparing Various Octave Ranges of Pitch and Panning. In Proceedings of the 16th International Conference on Auditory Displays, (pp. 121-125) Washington, D.C., USA.
28. **Peres**, S. C., Lane, D. M., & Griggs, K. R. (2010). Using Simulations for Active Learning: The Query First Method in Practice. In Proceedings of the 8th International Conference on the Teaching of Statistics, Ljubljana, Slovenia.
29. Wood, S. B., **Peres**, S. C., Akladios, M., Kortum, P., & Muddimer, A. (2009). Ergonomics, Software and Geophysical Interpretation. In Proceedings of the International Petroleum Technology Conference, Doha, Qatar
30. Powell, C., **Peres**, S. C., Nguyen, V., Bruton, K., & Muse, L. (2009). Using the Keyboard to Issue Commands: The Relation of Observing Others Using Efficient Techniques on the Weightings of the Costs and Benefits. In Proceedings of the Human Factors and Ergonomics Society 53rd Annual Meeting, (pp. 1452-1455) San Antonio, USA.
31. Jardina, J., **Peres**, S. C., Nguyen, V., Megasari, A., Griggs, K., Pinales, R., & Amos, A. (2009). Keyboard Shortcut Users: They Are Faster at More Than Just Typing. In Proceedings of the Human Factors and Ergonomics Society 53rd Annual Meeting, (pp. 975-979) San Antonio, USA.
32. **Peres**, S. C., Nguyen, V., Kortum, P., Akladios, M., Wood, S. B., & Muddimer, A. (2009). Software Ergonomics: Relating Subjective and Objective Measures. In Proceedings of the 27th International Conference Extended Abstracts on Human Factors in Computing Systems (pp. 3949-3954) Boston, MA USA: ACM Press.
33. Kortum, P., Ling, A., Su, A., **Peres**, S. C., & Stallman, K. (2008). Subjective Workload Assessment for on-Hold Telephone Stimuli In Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting, (pp. 1517-1521): Human Factors and Ergonomics Society.
34. Black, D., **Peres**, S. C., Tamborello II, F. P., & Amos, A. (2008). Computer Based Training with a Twist: Leveraging Peer-to-Peer Learning to Improve Training Effectiveness. In Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting, (pp. New York, USA).
35. Stallmann, K., **Peres**, S. C., & Kortum, P. (2008). Auditory Stimulus Design: Musically Informed. In Proceedings of the 14th International Conference on Auditory Display, Paris, France.
36. Kortum, P., & **Peres**, S. C. (2007). A Survey of Secondary Activities of Telephone Callers Who Are Put on Hold. In Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting, (pp. 1153-1157) Baltimore, MD.
37. **Peres**, S. C., Kortum, P., & Stallmann, K. (2007). Auditory Progress Bars Preference, Performance, and Aesthetics. In Proceedings of the 13th International Conference on Auditory Displays, (pp. 391-395) Montreal, Canada.
38. Kortum, P., & **Peres**, S. C. (2006). An Exploration of the Use of Complete Songs as Auditory Progress Bars. In Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting, (pp. 2071-2075) San Francisco, CA USA: Human Factors and Ergonomics Society.
39. Lane, D. M., & **Peres**, S. C. (2006). Interactive Simulations in the Teaching of Statistics: Promise and Pitfalls. In Proceedings of the 7th International Conference on the Teaching of Statistics, Salvador, Brazil. (Google Scholar Citations: 33)

40. Tamborello II, F. P., **Peres**, S. C., & Fleetwood, M. D. (2006). A Peer Mediated Leap to Efficiency: A Theory of Cost-Benefit Analysis in the Selection of Efficient Strategies. In Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting, (pp. 349-353) San Francisco, CA, USA: Human Factors and Ergonomics Society.
41. Kortum, P., **Peres**, S. C., Knott, B., & Bushey, R. (2005). The Effect of Auditory Progress Bars on Consumer's Estimation of Telephone Wait Time In Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting, (pp. 628-632) Orlando, FL USA: Human Factors and Ergonomics Society. (Google Scholar Citations: 14)
42. **Peres**, S. C., Fleetwood, M. D., Yang, M., Tamborello II, F. P., & Smith, D. P. (2005). Pros, Cons, and Changing Behavior: An Application in the Use of the Keyboard to Issue Commands. In Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting, (pp. 637-641) Orlando, FL USA: Human Factors and Ergonomics Society.
43. **Peres**, S. C., & Lane, D. M. (2005). Auditory Graphs: The Effects of Redundant Dimensions and Divided Attention. In Proceedings of the 11th International Conference on Auditory Displays, (pp. 169-174) Limerick, Ireland. (Google Scholar Citations: 24)
44. **Peres**, S. C., Tamborello II, F. P., Fleetwood, M. D., Chung, P., & Paige-Smith, D. L. (2004). Keyboard Shortcut Usage: The Roles of Social Factors and Computer Experience. In Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting, (pp. 803-807) New Orleans, LA USA: Human Factors and Ergonomics Society. (Google Scholar Citations: 15)
45. **Peres**, S. C., & Lane, D. M. (2003). Sonification of Statistical Graphs. In Proceedings of the 9th International Conference on Auditory Displays, (pp. 157-160) Boston, MA USA. (Google Scholar Citations: 27)

Manuscripts in Preparation

1. Towne, Jr., S. D., Ory, M. G., Smith, M. L., **Peres**, S. C., Pickens, A., Mehta, R., & Benden, M. (under review) Socio-Demographic and Health-Related Factors Associated with Technology Use and Physical Activity Among Individuals in STEM Fields.
2. **Peres**, S. C., Johnson, W. D., Thomas, S. E., and Ritchey, P. (under review) The Effects of Native Language on Procedure Performance and Hazard Comprehension
3. Sasangohar, F., **Peres**, S. C., Williams, J.P., Smith, A., & Mannan M.S. (under review) Investigating Written Procedures in Process Safety: Qualitative Data Analysis of Interviews from High Risk Facilities
4. Pickens, A., **Peres**, S. C., Mehta, R., Benden, M. Towne, Jr., S. D., & Ory, M. G. (in draft format) Ergonomic knowledge base of college students: What can future employers expect?
5. Mehta, R., **Peres**, S. C., Pickens, A., Benden, M. Towne, Jr., S. D., & Ory, M. G. (in draft format) Ergonomic strain and associated stressors for college students

Invited Talks

Peres, S. C. (2016). *Workers Experiences with Using Procedures: How Methods in Human Factors Can Help* Presentation at the IADC Human Factors Conference & Exhibition, Houston, TX, USA

Peres, S. C. (2016). *Human Factors Methods and Procedures: What you can do now!* Presentation at the BP Collaborative Safety Workshop, Houston, TX, USA

Peres, S. C. (2016). *Unpacking the Phrase Human Factors and What it Means for Safety in Industrial Work Settings.* Presentation at the Texas Chemical Council Safety Seminar, Galveston, TX, USA.

Peres, S. C. (2015). *Advanced (ing) Procedures: Human Factors and Procedure Presentation and Design.* Presentation at the Human and Organizational Performance, Houston, Texas USA.

Peres, S. C. (2015). Standards for the Human Machine Interface: How to use them and why you care? Presentation at the Deep Space Deep Ocean Exploring Crossover Technologies in the Space and Energy Sectors, Houston, Texas USA.

Non-Refereed International/National Conference Proceedings

Peres, S. C. & Byrne, M. D. (July 2005) *The interactive behavior triad and auditory graphs: suggestions for an organizing framework.* International Conference on Auditory Displays--Auditory Graph Symposium (<http://sonify.psych.gatech.edu/ags2005/papers.html>)

- Peres, S. C.**, & Lane, D. M. (November 2004) *Dimensions of Sound in Auditory Displays: the Effects of Integral Dimensions*. Poster presented at the Auditory Perception, Cognition and Action Meeting, Minneapolis, MN.
- Peres, S. C.**, & Lane, D. M. (November 2003) *Pitch, Loudness & Temporal Dimensions of Sound in Auditory Displays: the Effects of Redundant Designs* Paper presented at the Auditory Perception, Cognition and Action Meeting, Vancouver, B.C., Canada.
- Perales, B., **Peres, S. C.** & Malin, D. (November 2002) *Effects of Computer Animation Software on Learning Synaptic Transmission Processes*. Poster presented at the Society for Neuroscience, Orlando, FL.
- Peres, S. C.**, & Shelley, K. (June 1996) *The Effects of Creative Activities on Affect*. Poster presented at the American Psychological Society National Convention, San Francisco, CA.

Refereed Conference Presentations

- Peres, S. C.**, Mannan, M. S., Quddus, N., Ahmed, L., Batarse, J. C., Hoyle, W. S., & Bias, R. G. (2016). *Human Factors in Offshore Drilling and Production Current Knowledge and Gaps*. Paper presented at the Applied Human Factors and Ergonomics, Orlando, FL, USA.
- Pickens, A., Benden, M. E., Mehta, R. K., **Peres, S. C.**, Ory, M. G., & Towne, Jr., S. D. (2016). Ergonomic Awareness Among College Students. Applied Ergonomics Conference. Orlando, FL. Mar 21-24.
- Peres, S. C.**, Mehta, R. K., & Ritchey, P. (2016). Software Biomechanics: Developing a New Self-report Assessment Tool. Applied Ergonomics Conference. Orlando, FL. Mar 21-24.
- Peres, S. C.**, Quddus, N., Kannan, P., Ahmed, L., Ritchey, P., & Mannan, M. S. (2016). *The relationship between operators, tasks, and procedures: What are the barriers to reducing hazards and risks?* Paper presented at the Hazards26, Edinburgh, UK. IChemE
- Peres, S. C.** & Mannan, M. S., (2015). Advancing Procedures: Human Factors and Procedure Presentation and Design. Presentation at the Association of International Chemical Engineers
- Peres, S. C.**, Quddus, N., Rahmani, S., Kannan, P., Ahmed, L., Ritchey, P., Johnson, W., & Mannan, M. S. (2015). *Elements that Impact Procedure Effectiveness and Compliance: What We Know and What We Don't Know*. Paper presented at the International Association of Drilling Contractors - Human Factors, Galveston, Texas, USA.
- Peres, S. C.** & Mehta, R. K. (2014). Software biomechanics. Applied Ergonomics Conference. Orlando, FL. Mar 24-27.
- Peres, S. C.**, Faisst, C., Slota, N., Verona, D., Williams, C., & P. Ritchey (2014). Sonification Synthesizer For Surface Electromyography. International Conference on Auditory Displays. New York City, NY. June 22 – 27

Non-Refereed State/Regional Conference Presentations

- Lander, E., & **Peres, S. C.** (2015). *Increasing Operational Efficiency And Human Reliability*. Presentation at the Marcus Evans Petrochemical and Refining Summit, Houston, Texas, USA.
- Ritchey, P., **Peres, S. C.** and Mehta, R. (2015) User interface biomechanics: Developing a new self-report assessment tool. Presentation at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Peres, S. C.**, Ritchey, P., Rahmani, S., Pranav, K., Ahmed, L., Johnson, W. Quddus, N., & Mannan, M. S. (2015) Development of an effective procedure writer's guide using a human factors and regulatory compliance approach. Presentation at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Peres, S. C.**, Mehta, R., Thomas K. Ferris, and Mark Riddell (2015) Investigating display-related cognitive fatigue in oil and gas operations. Presentation at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Ardoin, W. V, Hoyle, W. S., Ferris, T. K., **Peres, S. C.**, Hallbeck, S. & Brady, P. (2015) A systems analysis of real-time remote physiological monitoring: Three paradigms of inpatient care. Presentation at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.

- Hoyle, W. S. & **Peres, S. C.** (2015) Elements associated with procedural management system used for risky environments. Poster presented at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Sonaïke, I. A., Bewaji, T. A., Ritchey, P., & **Peres, S. C.** (2015) Ergonomic impact of Swype. Poster presented at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Verona, D., **Peres, S. C.**, Mora, E. & Sivaraj, E. (2015) Sonification synthesizer for surface electromyography. Poster presented at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA
- Peres, S. C.**, Spitzmuller, C., Salas, E. & Ciavarelli, A. (2015) Decreasing ocean energy safety incidents through greater incorporation of human factors and human systems integration: A summary of the discussion. Poster presented at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Peres, S. C.**, Mehta, R., Bewaji, O., & Brantley, S. (2015) Exploring variables associated with users' satisfaction, performance, and physiological responses based on keyboard attributes. Poster presented at the 2015 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Peres, S. C.** (2014) Measure of muscle stress with sEMG: Combining exertion and dynamicity. Presentation at the 2014 Southwest Human Factors and Ergonomics Symposium, College Station, TX USA.
- Ritchey, P., **Peres, S. C.**, & Mehta, R. (2014) User interface biomechanics: Does the interaction design of the user interface impact ergonomic risk factors? Poster at the 2014 Southwest Human Factors and Ergonomics Symposium, College Station, TX USA.
- Peres, S. C.**, Ritchey, P., & Toy, K. (2012) Touch Devices: Ergonomic Implications and Posture. Presentation at the 2012 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Baccinelli, S., Kemp, K., Manning, C., & **Peres, S. C.** (2012) Delivery method of information regarding chair ergonomics: Keep it simple! Poster at the 2012 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Bruton, K. E., & **Peres, S. C.** (2012) The Effect of Dyadic Learning on Attitude toward Statistics. Poster at the 2012 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Duffield, T. J., Phillips, R. G., & **Peres, S. C.** (2012) sEMG Standard Deviation as a Measure of Muscle Dynamics. Poster at the 2012 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Garcia, A. & **Peres, S. C.** (2012) Auditory Cueing with Normal and Accelerated Speech. Poster at the 2012 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Nery, A. & **Peres, S. C.** (2012) Usability and Design of the UHCL Applied Social Issues Website. Poster at the 2012 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Ritchey, P. & **Peres, S. C.** (2012) Effects of Transitions between Accelerated Speech and Normal Speech. Poster at the 2012 Houston Human Factors and Ergonomics Symposium, Houston, TX USA.
- Peres, S. C.**, Kortum, P. T., Muddimer, A. & Akladios, M., (2011) *Software Ergonomics*. Presentation at the 2011 Texas Regional Human Factors and Ergonomics Symposium, Houston, TX USA.
- Hoyle, S., **Peres, S. C.**, & Bruton, K. (2011) *Usability Testing of an Interactive Statistics Website*. Poster presented at the 2011 Texas Regional Human Factors and Ergonomics Symposium, Houston, TX USA.
- Griggs, K., Jardina, J. R. & **Peres, S. C.** (2010) Redesign of an Interactive Statistics Website, Poster presented at *the 7th Annual One-Day Symposium of Human Factors and Ergonomics in Houston*
- Bruton, K., Hoyle, W. S., Nguyen, J., and **Peres, S. C.** (2010) Effects of Anthropomorphism on Performance in Robotic Operation, Poster presented at *the 7th Annual One-Day Symposium of Human Factors and Ergonomics in Houston*
- Griggs, K., Bogus, S., Westmoreland, D., & **Peres, S.C.** (2009) Alarms: Discrete sounds vs. sonifications. Poster presented at the Houston Human Factors and Ergonomics One-Day symposium, Houston, TX.
- Hayes, P. K., Jardina, J., Aldridge, G. & **Peres, S.C.** (2009) Eyeblink as a measure of workload for auditory displays. Poster presented at the Houston Human Factors and Ergonomics One-Day symposium, Houston, TX.

- Nguyen, V., Megasari, A., Amos, A., Romine, A., **Peres, S. C.**, Akladios, M., Kortum, P., & Ziegler, C. (2008) *Software Ergonomics Assessment Using Subjective and Objective Tools: A Literature Review*. Poster presented at the Texas Regional Human Factors and Ergonomics One-Day conference, Austin, TX.
- Peres, S. C.**, Nguyen, V., Alexander, M., & Dutt, S. (2007). *Efficiency with Microsoft Word: Validating Self-report data*. Poster presented at the Houston Human Factors and Ergonomics One-Day conference, Houston, TX.
- Lane, D. M., & **Peres, S. C.** (2006). Interactive simulations in the teaching of statistics: Promise and pitfalls. Presentation at the Southwest Teaching of Psychology Conference, Houston, Texas
- Marchesini, M. & Sanders, B. (2006) Evaluation of Multimedia Methods of Statistics Instruction, Poster presented at the Southwest Teaching of Psychology Conference, Houston, TX USA.
- Schnell, J. (2006) User Center Design: Redesign of the University of Houston-Clear Lake Psychology Department web site. Poster presented at the Houston Human Factors and Ergonomics Society One-day conference, Houston, TX USA
- Peres, S. C.**, & Lane, D. M. (November 2004). *Online Statistics: A Multimedia Course of Study*. Poster presented at the Southwest Teaching of Psychology Conference. Seguin, TX USA.

Regional and Local Presentations

- Peres, S. C.** (2014) Biomechanics of Software Design: Translating sEMG Measures Noldus User Group Meeting
- Peres, S. C.** & Garrett, G. (2014) Touchpad Usability Study Presentation to Dell Usability Team
- Peres, S. C.** (2014) Human Factors and Process Safety: How to Make the Fit. Mary Kay O'Connor Process Safety Center Steering Committee Meeting
- Peres, S. C.** (2010) Ergonomic Leadership, Nobody Gets Hurt—Even in our Offices, Presentation at ExxonMobil's Project Manager's Safety, Security, Health and Environmental Workshop. April, 2010
- Peres, S. C.** (2009) Warnings and Hazard Communication, Presentation in Safety Engineering class at UHCL, September, 2009
- Peres, S. C.** (2009) Role of Women in Technology, Presentation in Women's Studies Seminar at UHCL, March, 2009
- Peres, S. C.** (2009) On becoming efficient with software: We do what we see. Presentation to the Houston Area Industrial Organizational Psychologists (HAIOP), June 2009
- Peres, S. C.** (2009) Presented summary of the research in the RIHM lab at UHCL to the Habitability and Environmental Factors Division, February 2009
- Peres, S. C.** (2009) Review of Human Computer Interaction. Presentation in Human Factors Engineering class at UHCL, July 2009.
- Peres, S. C.**, Smith, D. P., & Thronesbery, C. (2008). The Role of Human Factors in Systems Engineering, Presentation for Systems Engineering Course at UHCL. November 2008
- Peres, S. C.**(2007) Review of Human Computer Interaction. Presentation in Human Factors for Industrial Designers class at the University of Houston, November, 2007.
- Peres, S. C.** (2006) The Leap to Efficiency: The Impacts of Observing Peers. Presentation at the Human Computer Interaction Institute seminar series at Carnegie Mellon University, September 2006.
- Peres, S. C.**, Smith, D. P., & Thronesbery, C. (2006) The Role of Human Factors in Systems Engineering Presentation at joint meeting of Houston HFES and INCOSE. November 2006
- Peres, S. C.** (2006) Review of Human Computer Interaction. Presentation in Human Factors Engineering class at UHCL, March, 2006.

Patents/ Awards

Houston HFES Clete Booher Service Award 2013 (inaugural year for the award)

Laughery Award for Best Master's Thesis in Psychology, Rice University—2005

Member of the 2004 Graduate Delegation for incoming President of Rice University

Psi Chi—Psychology Honor Society

University of Houston-Clear Lake Human Science's Graduate Student of the Year - 1996

Peres, S. C., & TeamSonic (Pending). Sonification Synthesizer USA.

Benden, M. E., Peres, S. C., & Liu, J. C. (Pending). Road Hazard Identification by Commercial Drivers USA.

Research Interests

Mechanisms associated with the acquisition of efficient strategies and procedure comprehension and adherence; Ergonomic impacts of software design; and Design of auditory displays.

Teaching Interests

Human Factors, Human Computer Interaction, Cognitive Psychology, Introduction to Psychology, Research Design, and Statistics

Current Projects

Advanced Procedures—This is a series of projects looking to understand the cognitive and environmental factors that effect operators' adherence to standard work procedures particularly in high-risk work environments such as those found in the process industries (e.g., chemical plants, refineries, and drilling). One common solution for operators' non-compliance with standard work procedures is to have it required that the operator have a written procedure in hand while performing the task. This series of projects looks to identify when this is appropriate, how those procedures should be designed, and how the designs should be implemented and maintained.

Self-Report Ergonomic Assessment Tools—This project is designed to investigate people's ability to report the amount of strain associated with working in the office environment—including issuing different software command and working on different types of input devices. If people are reasonably accurate with their self-report measures of strain, then it would become possible evaluation regarding the usability of the software and devices (i.e., how easy they are to learn and use) but also on the amount of muscle strain induced by using the technology.

Auditory Displays—In this research, I am investigating how auditory displays can be designed for optimal performance and satisfaction, both at the most basic level (e.g. how dimensions of sound used in auditory displays impact user's performances) and at more complex levels (can the utilization of principles of composition in the design of auditory displays improve performance/satisfaction). We are specifically looking at the designs for the sonification of sEMG data that can be used for biofeedback with athletes or for measuring muscle strain in office environments.

Service

Standards Committees

Member, American Petroleum Institute (API) RP 75 review committee on Human Factors element

Editorial Board Member:

Applied Ergonomics

Ad Hoc Reviewer:

Journal of Audio Engineering

Journal of Multimodal User Interfaces

Theoretical Issues in Ergonomics Science

Human Factors

Journal of Statistics Education

Transactions on Applied Perception

International Conference on Auditory Displays

Human Factors and Ergonomics Society (HFES) Annual Meeting

Psychology Faculty search committee, (2006, 2007, 2008, 2009, 2010, 2012)

Human Factors and Ergonomics Society

2016 – 2018 – Secretary Treasurer
2013 – 2015 – Chapter Affairs Chair
2009 – 2013 – Professionalism Domain Leader
2008 – Professional Standards Committee
2008 – Salary Survey
2007 – Accreditation program review

Houston Chapter of Human Factors and Ergonomics Society

2006, 2009, 2013 - President
2003 – current - Board member
2015 – Symposium chair

International Community for Auditory Display (ICAD)

2012 – current

The World of Work, Inc.

2010 – Board member

Southwest Teaching of Psychology (swtop.org)

2006, 2007 – Webmaster

Grant review

National Science Foundation, September (2005)
NASA's Human Research Program: Space Human Factor Engineering Project's Merit Review

Professional Administrative Staff Association (PASA)

Representative on the Southern Association of Colleges and Schools Self-study Subcommittee on Students

Scholarship Review Committee for the University of Houston-Clear Lake, (1999, 2000)

Thesis Committees

Current:

W. Sloane Hoyle (chair), Texas A&M University Health Science Center, Dr.Ph., Occupational Health
William Johnson (chair), Texas A&M University Health Science Center, Dr.Ph., Occupational Health
Paul Ritchey (co-chair), Texas A&M University Health Science Center, Dr.Ph., Occupational Health
Changwon Son (co-chair), Texas A&M University, Ph.D., Industrial Engineering
Jukrin Moon (co-chair), Texas A&M University, Ph.D., Industrial Engineering
Ashley Shortz, Texas A&M University Health Science Center, Dr.Ph., Occupational Health
Johneen Ardoin, Texas A&M University, Ph.D., Industrial Engineering
Daniel Verona (chair), Texas A&M University, M.S., Biomedical Engineering
Yashfin Mahid, Texas A&M University, M.S., Chemical Engineering
Zach Traylor, Texas A&M University, Ph.D., Psychology

Graduated:

Juliana A. Guarguati Ariza, Texas A&M University, M.S., Chemical Engineering
Daniel Carey, Texas A&M University, Ph.D., Mechanical Engineering
Jehova Arenas Reyes, Texas A&M University, M.S., Chemical Engineering
Mengxi Yu, Texas A&M University, M.S., Chemical Engineering
Ming Zeng, Texas A&M University, M.S., Chemical Engineering
April Amos (chair), University of Houston-Clear Lake, M.A., Psychology
Katherine Bruton (chair), University of Houston-Clear Lake, M.A., Psychology 2012
Jo Jardina (chair), University of Houston-Clear Lake, M.A., Psychology 2011
William Amonette, University of Texas Medical Branch, Ph. D., Rehabilitation Sciences 2011
Yasser Elouri, University of Houston-Clear Lake, M.S., Environmental Science 2009
Ashitra Megasari, University of Houston-Clear Lake, M.S., Environmental Science 2009
Shahab Dean Aslinia, University of Houston-Clear Lake, M.A., Psychology 2007

Courses Taught

Graduate

Texas A&M School of Public Health

Human Factors and Behavior Based Safety Spring 2014, 2015, 2016, 2017

University of Houston-Clear Lake

Human Factors Seminar Spring 2009, Fall 2009, Spring 2010, Fall 2010, Spring 2011
Advanced Statistics Seminar Fall 2007, Spring 2008, Fall 2008
User Centered Design Fall 2007, 2008, 2009, 2010, 2011
Human Computer Interaction Practicum Fall 2009, Spring 2010, Fall 2010, Spring 2011
Human Computer Interaction Research Summer 2006 - Fall 2008, Summer 2009
Advanced Research Design and Statistics I Every Fall 2005 - 2010
Advanced Research Design and Statistics II Every Spring 2006 - 2011

Undergraduate

University of Houston-Clear Lake

Cognitive Psychology Fall 2005, 2008
Research Design and Statistics I Fall 1999, 2000
Research Design and Statistics II Spring 2000, 2001

Rice University

Cognitive Psychology Fall 2009, Spring 2010, Spring 2011

St. Thomas University

Inferential Statistics Spring 2004

College of the Mainland

Introduction to Psychology Fall 1996, Spring 1997
Lifespan Fall 1997

Forensic Experience

2006 – current Human Factors/Warnings expert witness

Currently retained as an expert witness:

Walter Oil & Gas co. v. Cameron, et al.: Southern District Court, Houston, Texas

Provided testimony as an expert witness by deposition:

Juan Aguilar, et al., v. Enterprise Products Partners & Turner Industries Group, LLC: District Court of Chambers County, Texas

Ray v. Mercury Mountaineer for Andrews: Circuit Court, Birmingham, Alabama

Black Elk Energy LLC v. High Pressure Integrity, Inc., Parish of Terrebonne, Louisiana

Previously retained as an expert witness:

Lewis v. Pernod Ricard USA, L.L.C: District Court of Travis County, Texas

Safeco Ins. Co. of Ind. a/s/o Stover v. Home Depot U.S.A., Inc., et al

Faudo v. Skaltek, Inc; Washington Wire-Rope, Inc.: Deacero USA Inc.

Inosencio Paz v. Moran Towing Corporation and Moran Towing of Texas

Professional Experience

2008 – 2010 Contract trainer for Humantech, Inc. to ExxonMobil on Office Ergonomics

July 2004 Needs analysis for Rice University's Human Resources website

2003 Intern Usability Engineer: Online Marketing Group - Reliant Energy.

1999 - 2001 Research Associate: Office of Institutional Effectiveness, University of Houston-Clear Lake. Identified and developed institutional research projects; coordinated the collection and analysis of data, also interpreted results and prepared reports; wrote statistical programs to analyze data; developed, administered and analyzed institutional surveys.

- 1998 - 1999 Projects Coordinator: Department of Psychology Center for Academic and Reading Skills, University of Houston (CARS-UH, now named TIMES-UH).
- 1998 - 1999 Project Manager: Department of Psychology, University of Houston: Project C.A.R.E.. Program evaluation of the Harris County Sheriff's Department, "New Choices" Substance abuse treatment program in the Harris County Jail.
- 1996 Project Manager: Department of Psychology, University of Houston: Psychiatric Severity and the Stages of Change
- 1996 - 1997 Research Assistant: Department of Psychology, University of Houston: Project Check-In. Program evaluation of the Substance Abuse Felony Treatment Facility for special needs offenders at the Texas Department of Criminal Justice Estelle Unit, Huntsville, Texas.
- 1992 - 1994 Job Coach and Vocational Rehabilitation Assistant: Transitional Learning Community; Community Re-Entry Program for individuals with traumatic head injuries.