

Curriculum Vitae

S. CAMILLE PERES, PH.D.

Department of Environmental & Occupational Health
Texas A&M University
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Academic Positions

Texas A&M University

Associate Professor: September 2019 – current
Assistant Professor: June 2013 – August 2019
Environmental and Occupational Health
Industrial and Systems Engineering (Courtesy Appointment)
Psychology and Brain Science (Courtesy Appointment)

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

Faculty Associate: June 2021 - current
Assistant Director, Human Systems Engineering Research: May 2018 – May 2021
Research Fellow: January 2015 – May 2018

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

Research Fellow: January 2016 – current

Mayo Clinic

Research Affiliate: September 2014 – May 2021

University of Houston-Clear Lake (UHCL), Psychology

Associate Professor: August 2012 – May 2013
Assistant Professor: June 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

Education

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

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

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

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

M.A., Behavioral Science, December 1996, Department of Psychology, UHCL.

Advisor: Kyna Shelley.

B.A., Theatre Arts, May 1990, Department of Theatre, UHCL

Awards/ Honors/ Patents

Member (2020 – current), National Academies of Sciences, Engineering and Medicine Committee to Decrease Risk of Offshore Energy Operation

Human Factors Best Paper Award (2019), “Using Human Factors and Machine Learning to Design Procedures.”

Houston Human Factors and Ergonomics Society (HFES) Best Presentation Award 2017, San Antonio, TX

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

Research Interests

Human Factors in high risk industrial settings; Predictors of procedural comprehension and adherence; Disaster Ergonomics.

Teaching Interests

Human Factors; Research Methods & Statistics; and Cognitive Psychology

Funding Grants and Contracts

NovaChemicals, Huntsman Chemical, & Center for Operator Performance: Next Generation Advanced Procedures Consortium

(PI: **Peres**, Co-PI: Sasangohar): \$95,000 2021 – 2022

National Science Foundation: HCC: Medium: A Multi-disciplinary Computational Model of Worker, Task, and Context for Real-time Adaptive Procedural Systems (R-TAPS)

(PI: **Peres**, Co-PIs: Murphy, Sasangohar, Zahabi): \$ 800,000 2021 – 2024

National Science Foundation: FW-HTF-RM: The Future of Teleoperation in Construction Workplaces

(PI: Ham, Y, Co-PIs: Bergman, Kim, Park, **Peres**, (20%)): \$ 1,380,612 2021 – 2023

Department of Interior, via Operation and Maintenance of the Ocean Energy Safety Institute (OESI), Incidents Associated with Slips, Trips, and Falls (STF) in Offshore Oil and Gas Operations (PI: **Peres**, Co-PIs:

Spitzmueller): \$97,686.10 2020 – 2021

National Institute of Environmental Health Sciences, (U45ES019360-11): Prevention, Preparedness, and Response (P2R) Consortium: Hazardous Waste Worker Training Program.

(PI: Rios, multiple Co-PI: **Peres** (~1%)) \$1,107,505 2020 – 2025

National Institute of Environmental Health Sciences, (U45ES019360-11): Prevention, Preparedness, and Response (P2R) Consortium: Hazardous Materials Disaster Preparedness Training Program.

(PI: Rios, multiple Co-PI: **Peres** (~1%)) \$1,048,385 2020 – 2025

NovaChemicals and Huntsman: Next Generation Advanced Procedures

(PI: **Peres**): \$85,000 2019 – 2020

National Science Foundation: RAPID: Human-robotic interactions during Harvey recovery operations

(PI: Mehta, Co-PI: **Peres** (25%), Murphy): \$117,579 2017 – 2018

School of Public Health REDI Grant, “Expertise Acquisition with Industrial Tasks: How Does Procedure Use Change and When”

(PI: **Peres**): \$25,000 2017 – 2018

Chevron, ExxonMobil, NovaChemicals, & NASA, “Advanced Procedure Research Study—A Human Factors Approach: Phase 3”

(PI: **Peres**, Co-PI: Mannan): \$310,000 2017 – 2018

National Academies of Sciences: Factoring in the Human in Offshore Operations: Forces for Scenario Planning
(PI: Mehta, Co-PIs: Peres (40%), van Oort): \$200,000 2016 – 2018

National Science Foundation, “EAGER: Humans, Teams, and Technologies: Human-Team and Team-Machine Interaction in Emergency Response”
(PI: Peres, Co-PI: Sasangohar): \$259,649 2016 – 2019

Chevron and ExxonMobil, “Advanced Procedure Research Study – A Human Factors Approach: Phase 2”
(PI: Mannan, Co PI: Peres (50%): \$150,000 2015 – 2018

Ocean Energy Safety Institute “Human Factors in Offshore Oil and Gas Operations”
(PI: Peres): \$50,139 2015 – 2017

Office Ergonomics Research Council, “Validation and application of a self-report measure to assess office ergonomic risks?”
(PI: Mehta, Co PI: Peres (50%): \$35,589 2016 – 2017

Hewlett Packard, “Exploring variables associated with users’ satisfaction, performance, and physiological responses based on keyboard attributes”
(PI: Peres, Co PI: Mehta): \$34,977 2015 – 2016

Center for Operator Performance, “Effective Designs for Procedure Warnings, Cautions, and Notes”
(PI: Peres): \$36,807 2015 – 2017

ATR Smart Procedures™, “Improving Procedure Development Through Usability Testing”
(PI: Peres): \$142,300 2014 – 2016

Mayo Clinic Robert D. and Patricia E. Kern Center for the Science of Health Care Delivery, “Systems Analysis of Ambulatory Remote Monitoring- CV Pilot”
(PI: Ferris, Co PI: Peres (50%) and Hallbeck): \$10,000 2014 – 2016

Chevron, “Advanced Procedure Research Study – A Human Factors Approach: Phase 1”
(PI: Mannan, Co PI: Peres (50%): \$75,000 2014 – 2015

Office Ergonomics Research Council, “Software biomechanics: Does the interaction design of software impact ergonomic risk factors?”
(PI: Peres, Co PI: Mehta): \$28,182 2014 – 2015

Faculty Research Support Fund at UHCL, “Ergonomic Impact of Swipe.”
(PI: Peres): \$4,000 2012 – 2013

Faculty Research Support Fund at UHCL, “Sonification Techniques for sEMG Data Interpretation and Utilization.”
(PI: Peres): \$2,000 2012 – 2013

Office Ergonomics Research Council, “The Ergonomic Implications of Gesturing: Examining Single and Mixed Use with Appropriate Placement”.
(PI: Peres): \$10,930 2010 – 2011

National Science Foundation, "Collaborative Research: Online Statistics Education: An Interactive Multimedia Course of Study II."
(PI: Lane, Co-PI: Peres (50%)): \$140,338 2009 – 2011

Schlumberger Information Systems, “Software Ergonomics Assessment Tools-Continuation of Work”
(PI: Peres): \$100,000 2008 – 2009

Schlumberger Information Systems, Gift to UHCL of Noldus Information Technology Observer System
(PI: Peres): \$10,000 2007

Schlumberger Information Systems, “Software Ergonomics Assessment Tools”
(PI: Peres): \$67,651 2007 – 2008

National Science Foundation, “SGER: Efficient Strategy Selection—Predictors and Cognitive Mechanisms”
(PI: Peres): \$51,868 2006 – 2007

Faculty Research Support Fund at UHCL, “Evaluation of Online Statistics: An Interactive Multimedia Course of Study.”
(PI: Peres): \$4,250 2005 – 2006

National Science Foundation, "Online Statistics Education: An Interactive Multimedia Course of Study"
(PI: Lane, **Co-PI: Peres (40%)**): \$12,482 2005 – 2006

Faculty Research Support Fund at the University of Houston-Clear Lake "Effects of Computer Animation Software on Learning Synaptic Transmission Processes."
(PI: Malin, **Co-PI: Peres (75%)**): \$2,000 2000 – 2001

Book chapters

1. **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.

White Papers/Reports

1. **Peres, S. C.**, Bias, R., Quddus, N., Ahmed, L.¹, Batarse, J.C.¹, & Hoyle, W. S.¹, (2016). Human Factors and Human Systems Integration in Offshore Drilling and Production: The Implications for Drilling Safety. Ocean Energy Safety Institute (http://oesi.tamu.edu/wp-content/uploads/Human_Factors_in_Offshore_Oil_and_Gas_final_8_Dec%2016.pdf)

Peer-reviewed Journal Publications (¹indicates student author, ²indicates postdoctoral researcher)

1. Ade, N.¹, Ahmed, L.¹, Espinosa, C.¹, Koirala, Y.¹, **Peres, S. C.** & Mannan, M. S. (2021) A review of human reliability assessment methods for proposed application in quantitative risk analysis of offshore industries. *International Journal of Industrial Ergonomics*
2. Benden M, Mehta R, Pickens A, Harp B, Smith ML, Towne SD Jr, **Peres S. C.** (2021). Health-related Consequences of the Type and Utilization Rates of Electronic Devices by College Students. *BMC Public Health*. In-press
3. Hendricks, J. W., Peres, S. C., Dumlao, S. V., Armstrong, C. A., & Neville, T. J. (2021). The impact of hazard statement design elements in procedures: counterintuitive findings and implications for standards. *Human factors*, 00187208211050137.
4. Johnson, W., **Peres, S. C.**, Benden, M., Meththa, R.K., Pickens, A., Smith, M.L., Sweany, N., & Johnson, M.A., (accepted) Lingual and Non-Lingual Safety Training Methodology Effectiveness: Does Language of Origin Impact Effectiveness. *International Journal of Industrial Ergonomics*
5. Sasangohar, F., Ade, N., Quddus, N., **Peres, S. C.**, & Kannan, P. (2021). Identifying step-level complexity in procedures: Integration of natural language processing into the Complexity Index for Procedures—Step level (CIPS). *International Journal of Industrial Ergonomics*, 85, 103184
6. Mehta, R. K., Nuamah, J., **Peres, S. C.**, & Murphy, R. R. (2020). Field Methods to quantify emergency responder fatigue: Lessons learned from sUAS deployment at the 2018 Kilauea Volcano Eruption. *IIEE transactions on occupational ergonomics and human factors*, 1-10.
7. Lintern, G., Motavalli, A., Chua, Z., Rantanen, E. M., **Peres, S. C.**, & Boorman, D. (2020). Rapid Development of a Hospital Checklist in a Time of COVID-19. *Ergonomics in Design*, 1064804620963687.
8. Hendricks, J. W., & **Peres, S.C.** (2020) Beyond human error: An empirical study of the safety Model 1 and Model 2 approaches for predicting worker's behaviors and outcomes with procedures. *Safety Science*, 134, 105016.
9. McDonald, A. D., Ade, N., & **Peres, S. C.** (2020). Predicting Procedure Step Performance from Operator and Text Features: A Critical First Step Toward Machine Learning-Driven Procedure Design. *Human Factors*, 0018720820958588.
10. **Peres, S. C.**, Smith, A., & Sasangohar, F. (2020). Worker-centered investigation of issues with procedural systems: Findings from interviews with a representative sample of workers in high-risk process industries. *Journal of Loss Prevention in the Process Industries*, 67, 1042-64.
11. Sasangohar, F., Moats, J., Mehta, R., & **Peres, S. C.** (2020). Disaster ergonomics: human factors in COVID-19 pandemic emergency management. *Human factors*, 62(7), 1061-1068.
12. Moon, J., Sasangohar, F., Son, C., & **Peres, S. C.** (2020). Cognition in crisis management teams: an integrative analysis of definitions. *Ergonomics*, 63(10), 1240-1256.
13. Son, C., Larsen, E., Sasangohar, F., & **Peres, S.C.** (2020). Opportunities and Challenges for Resilient Hospital Incident Management: Case Study of a Hospital's Response to Hurricane Harvey. *Journal of Critical Infrastructure Policy*• Volume, 1(1).

14. Son, C., Sasangohar, F., **Peres, S. C.**, & Moon, J. (2020). Muddling through troubled water: resilient performance of incident management teams during Hurricane Harvey. *Ergonomics*, 63(6), 643-659.
15. Son, C.¹, Sasangohar, F., Neville, T.², **Peres, S. C.**, & Moon, J.¹ (2020) Investigating Resilience in Emergency Management: A Systematic Literature Review. *Applied Ergonomics*, 87, 103114.
16. Ahmed, L., Quddus, N., Kannan, P., **Peres, S. C.**, & Mannan, M. S. (2020). Development of a procedure writers' guide framework: Integrating the procedure life cycle and reflecting on current industry practices. *International Journal of Industrial Ergonomics*, 76, 102930.
17. Son, C.¹, Sasangohar, F., Neville, T.², **Peres, S. C.**, & Moon, J.¹ (2019) Evaluation of Work-as-Done in Information Management of Multidisciplinary Incident Management Teams via Interaction Episode Analysis. *Applied Ergonomics—Special Issue on Resilience*
18. Shortz, A. E., Mehta, R. K., **Peres, S. C.**, Benden, M. E., & Zheng, Q. (2019). Development of the Fatigue Risk Assessment and Management in High-Risk Environments (FRAME) Survey: A Participatory Approach. *International journal of environmental research and public health*, 16(4), 522.
19. Mehta, R. K., Smith, A.¹, Williams, J.P.¹, **Peres, S. C.**, Sasangohar (2019) Investigating Fatigue in Offshore Drilling: A Qualitative Data Analysis of Interviews, *IIE Transactions on Occupational Ergonomics and Human Factors*, DOI: [10.1080/24725838.2019.1593896](https://doi.org/10.1080/24725838.2019.1593896)
20. **Peres, S. C.**, Johnson, W. D.¹, Thomas, S. E.¹, & Ritchey, P.¹ (2019) The Effects of Native Language and Gender on Procedure Performance and Hazard Comprehension. *Journal of Human Factors*, 61(1), 32-42
21. Mehta, R., **Peres, S. C.**, Saini, G.¹, Lee, M.¹, Hoyle, W. S.¹, Shortz, A.¹, Chih-Chan, H.¹, & Pryor, M. (2018) Operator situation awareness and physiological states during offshore well control scenarios. *Journal of Loss Prevention in the Process Industries*, 55, 332-337.
22. Son, C.¹, Neville, T.², Sasangohar, F., **Peres, S. C.**, & Mannan, M. S. (2018) Modeling an incident Management Team as a Joint Cognitive System. *Journal of Loss Prevention in the Process Industries*, 56, 231-241
23. Sasangohar, F., **Peres, S. C.**, Williams, J. P. 1, Smith, A. 1, & Mannan, M. S. (2018). Investigating written procedures in process safety: Qualitative data analysis of interviews from high-risk facilities. *Process Safety and Environmental Protection*, 113, 30-39.
24. Yu, M.¹, Quddus, N.², **Peres, S. C.**, Sachdeva, S.¹, & Mannan, M. S. (2017). Development of a safety management system (SMS) for drilling and servicing operations within OSHA jurisdiction area of Texas. *Journal of Loss Prevention in the Process Industries*, 50, 266-274.
25. Towne, S. D., Ory, M. G., Smith, M. L., **Peres, S. C.**, Pickens, A. W., Mehta, R. K., & Benden, M. (2017). Accessing physical activity among young adults attending a university: the role of sex, race/ethnicity, technology use, and sleep. *BMC Public Health*, 17(1), 721.
26. Mehta, R. K., **Peres, S. C.**, Kannan, P.¹, Rhee, J., Shortz, A.¹, & Mannan, M. S. (2017). Comparison of objective and subjective operator fatigue assessment methods in offshore shiftwork. *Journal of Loss Prevention in the Process Industries*, 48, 376-381.
27. **Peres, S. C.**, Mehta, R. K., & Ritchey, P.¹. (2017). Assessing ergonomic risks of software: Development of the SEAT. *Applied Ergonomics*, 59, 377-386.
28. **Peres, S. C.**, Verona, D.¹, Nisar, T.¹, & Ritchey, P.¹ (2017). Towards a systematic approach to real-time sonification design for surface electromyography. *Displays*, 47, 25-31.
29. **Peres, S. C.**, Quddus, N.², Kannan, P.¹, Ahmed, L.¹, Ritchey, P.¹, Johnson, W.¹, Rahmani, S., & 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*, 44, 726-734.
30. Garrett, G.¹, 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
31. **Peres, S. C.**, Kortum, P. T., Akladios, M., & Muddimer, A. (2016). Developing and validating a self-report assessment tool for software biomechanics. *Work*, 53(1), 193-204.
32. 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.
33. 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.
34. 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.

35. Tamborello II, F. P., **Peres, S. C.**, Nguyen, V. D.¹, & 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.
36. **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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.

Manuscripts under review (¹indicates student author, ² indicates postdoctoral researcher)

Peer-reviewed Conference Proceedings

1. Peres, S. C., Acemyan, C. Z., Bass, E. J., Brunsen, E., Jacinto, R. F., Trippe, J., & Wagner, R. B. (2021) Embedding Ethical Principles into the Human Factors and Ergonomics Society: Interactive Discussion with the Code of Ethics Task Force. *Proceedings of the 65th Human Factors and Ergonomics Society Annual Meeting*
2. Hendricks, J. W. Peres, S. C. & Walls, J. (2021) Is Attentional Maintenance the Problem (or something else) with Hazard Statement Compliance? An Experimental Investigation Using Eye-Tracking Technology. *Proceedings of the 65th Human Factors and Ergonomics Society Annual Meeting*
3. Ashraf, A.M., Son, C., Peres, S. C., & Sasangohar, F. (2021) Navigating operating procedures in everyday work in a petrochemical facility: A comparative analysis of WAI and WAD. *Proceedings of the 65th Human Factors and Ergonomics Society Annual Meeting*
4. Son, C., Sasangohar, F., **Peres, S. C.**, Moon, J. (2020). Designing an emergency management simulation testbed to investigate incident management team performance. *Proceedings of the 64th Human Factors and Ergonomics Society Annual Meeting*.
5. Son, C., **Peres, S. C.**, Sasangohar, F. (2020). Developing a novel operator performance measure for procedural tasks based on Safety-II perspective. *Proceedings of the 64th Human Factors and Ergonomics Society Annual Meeting*.
6. Moon, J., Sasangohar, F., **Peres, S. C.**, Son, C. (2020). Interactive Team Cognition in Incident Action Planning: A Network Approach to Assess Work-As-Done Within and Between Multidisciplinary Crisis Management Teams. *Proceedings of the 64th Human Factors and Ergonomics Society Annual Meeting*.
7. Mendonza, A. M., Liu, S. C., Dumlao, S. V., Hendricks, J. W., Son, C., Sasangohar, F., **Peres, S. C.** (2020). Where Two Ends Meet: Operator and Stakeholder Perceptions of Procedures. *Proceedings of the 64th Human Factors and Ergonomics Society Annual Meeting*.
8. Son, C., Peres, S. C., Ade, N., & Neville, T. J. (2019, November). Reflecting Abstraction Hierarchy of a Chemical Processing System on Standard Operating Procedures. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 63, No. 1, pp. 1806-1810). Sage CA: Los Angeles, CA: SAGE Publications.
9. Ade, N., Quddus, N., Kannan, P., Peres, S., Harhara, A., Parker, T., & Mannan, M. (2019). Application of Natural Language Processing in Procedure Design. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*.
10. Peres, S. C., Hendricks, J. W., Kannan, P., Ahmed, L., & Mannan, M. S. (2019). A survey of process safety workers' attitudes, behaviors, and outcomes: Moving beyond human error and toward a systems model, *AICHE*, New Orleans, LA.
11. Filho, S.A., Cayres, E., Puglia, A., Malpica, C., Drigo, E., Ahumada, C.B., & Peres, S. C. (2019) Management tool for reliability analysis in socio-technical systems - a case study. In *Proceedings of the American Institute of*

Chemical Engineers, 2019 Spring Meeting and 15th Global Congress on Process Safety, New Orleans, Louisiana.

12. Ade, N., Quddus, N., Peres, S.C., Harhara, A., Parker, T. & Mannan, M.S. (2019). Siri, How to Design a Procedure? Integration of Natural Language Processing in Procedure Design. In *Proceedings of the American Institute of Chemical Engineers, 2019 Spring Meeting and 15th Global Congress on Process Safety*, New Orleans, Louisiana.
13. Shortz, A. E. ¹, Hoyle, W. S. ¹, **Peres, S. C.**, & Mehta, R. K. (2018). Fatigue indicators of 12-hour day and night shifts in simulated offshore well control scenarios. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 62, No. 1, pp. 897-899). Sage CA: Los Angeles, CA: SAGE Publications.
14. Kannan, P. ¹, Quddus, N. ², **Peres, S. C.**, & Mannan, M.S. (2018). Can we simplify complexity measurement? A primer towards usable framework for industry implementation. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 62, No. 1, pp. 853-857). Sage CA: Los Angeles, CA: SAGE Publications.
15. Moon, J. ¹, Sasangohar, F., **Peres, S. C.**, Neville, T.J. ² & Son, C. ¹, (2018). Modeling Team Cognition in Emergency Response via Naturalistic Observation of Team Interactions. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 62, No. 1, pp. 1801-1802). Sage CA: Los Angeles, CA: SAGE Publications.
16. Son, C. ¹, Sasangohar, F., **Peres, S. C.**, & Mannan, M.S. (2018). An Episode as a Trace of Resilient Performance in Large-Scale Incident Management Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications
17. Neville, T. J. ², Peres, S. C., Ade, N. ¹, Son, C. ¹, Bagaria, P. ¹, Quddus, N. ², & Mannan M. S. (2018). Assessing Procedure Adherence Under Training Conditions in High Risk Industrial Operations. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 62, No. 1, pp. 1604-1604). Sage CA: Los Angeles, CA: SAGE Publications.
18. Hendricks, J., **Peres, S. C.**, & Neville, T.J. ² (2018). The Impact of Hazard Statement Design Characteristics in Procedures on Compliance. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 62, No. 1, pp. 1616-1618). Sage CA: Los Angeles, CA: SAGE Publications.
19. Son, C., Moon, J., **Peres, S.C.**, Sasangohar, F. (2018). An Episode as a Trace of Resilient Performance in Multi-Agency Incident Management Systems. *Proceeding of the 15th International Conference on Information Systems for Crisis Response and Management*.
20. Shortz, A. E., Franke, M., Kilic, E. S., Peres, S. C., & Mehta, R. K. (2017). Evaluation of Offshore Shiftwork using Heart Rate Variability. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*
21. Moon, J. ¹, **Peres, S.C.**, & Sasangohar, F. (2017). Defining team cognition in emergency response: A scoping literature review. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Austin, TX. (Vol. 61, No. 1, pp. 894-895). Sage CA: Los Angeles, CA: SAGE Publications.
22. Son, C. ¹, Sasangohar, F., & **Peres, S. C.** (2017). Redefining and Measuring Resilience in Emergency Management Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 61, No. 1, pp. 1651-1652). Sage CA: Los Angeles, CA: SAGE Publications.
23. Mehta, R. K., **Peres, S. C.**, Shortz, A. ¹, & Hoyle, W. S. ¹ (2017, October) Relationship Between Operator Situation Awareness and Physiological States During Complex and Critical Offshore Well Control Scenarios. *Paper presented at the Mary Kay O'Connor Process Safety Center*, College Station, Texas USA.
24. Tharpe, K. ¹, Thomas, S. E. ¹, & **Peres, S. C.** (2017, October) Signal Words and Symbol Designs: Does Consumer Products Research Inform the Design of These for Procedures? *Paper presented at the Mary Kay O'Connor Process Safety Center*, College Station, Texas USA.
25. Tharpe, K. ¹, Thomas, S. E. ¹, & **Peres, S. C.** (2017, September). Signal Words and Symbol Designs: Importance in Hazard Statements for Procedures. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 61, No. 1, pp. 1429-1430). Sage CA: Los Angeles, CA: SAGE Publications.
26. Ardoin, W. J. ¹, Hoyle, W. S. ¹, Bewaji, O. ¹, 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.
27. Sonaike, I. A. ¹, Bewaji, T. A. ¹, 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.

28. **Peres, S. C.**, Mannan, M. S., & Quddus, N.² (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.
29. 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.
30. **Peres, S. C.**, Quddus, N.², Rahmani, S., Kannan, P.¹, Ahmed, L.¹, Ritchey, P.¹, Johnson, W.¹, & Mannan, M. S. (2015, October). 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.
31. **Peres, S. C.**, Verona, D.¹, & Ritchey, P.¹ (2015, July). The effects of various parameter combinations in parameter-mapping sonifications. In Proceedings of the 21st International Conference on Auditory Display (ICAD 2015).
32. Mehta, R. K., Ferris, T., **Peres, S. C.**, Riddell, M. (2014, October). Investigating display-related cognitive fatigue in oil and gas operations. 2014 Mary Kay O'Connor Process Safety Center International Symposium, College Station, TX.
33. Ritchey, P.¹, **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.
34. Hoyle, W. S.¹, 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.
35. **Peres, S. C.**, Pham, T.¹, & Phillips, R.¹ (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.
36. Duffield, T. J.¹, **Peres, S. C.**, Amonette, W., & Ritchey, P.¹ (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). Sage CA: Los Angeles, CA: SAGE Publications.
37. David, T. Y.¹, **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.
38. 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.
39. Ritchey, P.¹, **Peres, S. C.**, & Duffield, T. J.¹ (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.
40. Bruton, K.¹, **Peres, S. C.**, Hoyle, W. S.¹, Ritchey, P.¹, Phillips, P.¹, Gutierrez, T.¹ & Amos, A.¹ (2012) Usability of an Interactive Educational Website for Statistics. In Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting, Boston, MA USA.
41. 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.
42. Toy, K. J.¹, **Peres, S. C.**, David, T. Y.¹, Nery, A.¹, & Phillips, R. G.¹ (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.
43. Garcia, A.¹, **Peres, S. C.**, Ritchey, P.¹, 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.
44. 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.
45. Tossell, C. C.¹, Jardina, J. R.¹, 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.

46. Burks, R. ¹ & **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.
47. Garcia, A. ¹, & **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.
48. **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.
49. Elouri, Y. ¹, Akladios, M., **Peres, S. C.**, & Amos, A. ¹ (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.
50. 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
51. **Peres, S. C.**, Jardina, J. R. ¹, & Titus, C. ¹ (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.
52. Ritchey, P. ¹, Muse, L. ¹, Nguyen, H. ¹, Burks, R. ¹, & **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.
53. **Peres, S. C.**, Lane, D. M., & Griggs, K. R. ¹ (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.
54. 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
55. Powell, C. ¹, **Peres, S. C.**, Nguyen, V. ¹, Bruton, K. ¹, & Muse, L. ¹ (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.
56. Jardina, J. ¹, **Peres, S. C.**, ¹ Nguyen, V. ¹, Megasari, A. ¹, Griggs, K. ¹, Pinales, R. ², & Amos, A. ¹ (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.
57. **Peres, S. C.**, Nguyen, V. ¹, 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.
58. 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.
59. Black, D. ¹, **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.
60. 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.
61. 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.
62. **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.
63. 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.
64. 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.

65. 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.
66. 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.
67. **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.
68. **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.
69. **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>)
70. **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.
71. **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.

Invited Talks

1. **Peres, S. C.** (2020, May). *What is Systematic Error, really? More importantly, how can it be effectively addressed?* Invited talk to International Standards Association – TR84.00.04 Workgroup on Systematic Failure future appendix, Houston, TX, USA.
2. **Peres, S. C.** (2019, April). *Improving the Design of Procedures*. Keynote at 2019 International Process Safety Group, Houston, TX, USA.
3. **Peres, S. C.** (2019, January). Disaster Ergonomics: Investigating Human Robotic Interaction, UAVs, and Teams Interactions Associated with Disaster Response. Presentation at Arizona State University Center for Human, AI, and Robot Teaming (CHART) Seminar
4. **Peres, S. C.** (2018, September). *Procedure Use and Adherence: A Human Factors Approach*. Presentation at 2018 COS Annual Safety Forum, Houston, TX, USA.
5. **Peres, S. C.** (2018, June). *Predictors of Procedural Deviation—Comparisons between What Workers Say and What They Do*. Presentation at the Texas Chemical Council Safety Seminar, Galveston, TX, USA.
6. **Peres, S. C.** (2018, June) *Occupational Safety in the Oil and Gas Industry: Developing a model of Research, Practice, and Outreach that Facilitates Outcomes*. National Institute of Occupational Safety and Health—Oil and Gas National Occupational Research Agenda, Webinar
7. **Peres, S. C.** (2018, June) *Variables associated with procedural adherence: What you don't know will surprise you*. HxGN LIVE 2018, Las Vegas, NV, USA
8. **Peres, S. C.** (2018, April) *Human Factors and Hardware in Offshore Platforms: Why you care about science related to Procedures and Fatigue*. New Technology and Regulatory Challenges For Offshore Oil And Gas Conference, Houston, TX, USA
9. **Peres, S. C.** (2018, April) *Human Factors and Hardware in Offshore Platforms: Why you care about science related to Procedures and Fatigue*. Presentation at the McNeese April 11th Process Safety Meeting, LA, USA
10. **Peres, S. C.** (2018, April). *Human Factors & Procedures: Effective Procedural Designs & Practices*. Presentation at the McNeese April 11th Process Safety Meeting, LA, USA
11. **Peres, S. C.** (2018, April). *Human Factors & Procedures: Effective Procedural Designs & Practices*. Presentation at the Operational Excellence in Refining and Petrochemicals Conference, Houston, TX, USA
12. **Peres, S. C.** (2018, February). *Research Results: Effective Procedural Designs & Practices*. Presentation at the Operational Excellence and Risk Management Conference, Houston, TX, USA

13. **Peres, S. C.** (2018, April). *Occupational safety in the oil and gas industry: Developing a model of research, practice, and outreach that facilitates outcomes*. Presentation at the University of Michigan's Center for Occupational Health and Safety Engineering (a NIOSH ERC).
14. **Peres, S. C.** (2017). *Effective procedural designs and practices* Presentation at the Operational Excellence in Oil and Gas Conference, Houston, TX, USA
15. **Peres, S. C.** (2017). *Human Factors and Procedures: Increasing Human Reliability to Drive Operational Excellence* Presentation at the Operational Excellence in Energy, Chemicals, and Resources Conference, Calgary, Canada
16. **Peres, S. C.** (2017) *Procedures and Checklists: Should they be adaptive and if so, how and when?* Qatar
17. **Peres, S. C.** (2017) *The Human Factor & The Oil & Gas Industry: API, Standards, and the Future*, National Academy of Science—Workgroup on Bolts, Santa Ana, CA
18. **Peres, S. C.** (2017) *Integrating Usability & Ergonomics: Impacts on Safety for Industry*, Houston HFES Quarterly Meeting, Houston, TX
19. **Peres, S. C.** (2017) *Ergonomic Impact of Software Design* Presentation at Office of Ergonomic Research Council, Marconi, Galveston, TX
20. **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
21. **Peres, S. C.** (2016). *Human Factors Methods and Procedures: What you can do now!* Presentation at the BP Collaborative Safety Workshop, Houston, TX, USA
22. **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.
23. **Peres, S. C.** (2015). *Advanced (ing) Procedures: Human Factors and Procedure Presentation and Design*. Presentation at the Human and Organizational Performance, Houston, Texas USA.
24. **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.

Refereed Conference Presentations

1. Son, C., **Peres, S. C.**, Sasangohar, F. (2020, August). *New Wine in New Cups: Measuring Operator Performance for Safety-II Perspective. Poster presented at the 16th Global Congress on Process Safety* (virtual).
2. Son, C., **Peres, S. C.**, Sasangohar, F. (2020, October). *Two Views of Evaluating Procedural Task Performance: A Transition from Safety-I to Safety-II Approach. Oral presentation at 2020 Mary Kay O'Connor Process Safety Symposium*, (virtual).
4. Son, C., Sasangohar, F., **Peres, S. C.**, Moon, J. (2020, February). *Characteristics of resilient incident management teams during an extreme event: A case study of Hurricane Harvey. Poster presented at the 2nd Texas Disaster Management Symposium*, College Station, TX.
5. **Peres, S.C.**, Mehta, R.K., Murphy, R.R., Nuamah, J., & Zhu, Y. (2019) *Human-robotic interactions (HRI) during natural disasters: Operator states assessments and improvements for effective HRI* American Institute of Chemical Engineers, *2019 Spring Meeting and 15th Global Congress on Process Safety*, New Orleans, Louisiana, USA.
6. Ade, N., Quddus, N., **Peres, S.C.**, Harhara, A., Parker, T. & Mannan, M.S. (2019). *Siri, How to Design a Procedure? Integration of Natural Language Processing in Procedure Design*, American Institute of Chemical Engineers, *2019 Spring Meeting and 15th Global Congress on Process Safety*, New Orleans, Louisiana, USA.
7. Ade, N., **Peres, S.C.**, McDonald, A., Quddus, N. & Mannan, M.S. (2018). *A novel approach for offshore procedure design and analysis using machine learning*, American Institute of Chemical Engineers, *Mary Kay O'Connor Process Safety Center International Symposium*, College Station, Texas, USA.
8. **Peres, S. C.**, Mehta, R. K., Shortz, A., Casas, A., Layton, T. (2018) *Procedural Performance: Possible Costs of Time Pressure and Shift Change*. Houston Human Factors and Ergonomics Society Symposium
9. **Peres, S.C.** (2018) *Cognitive Engineering: What is it and Why do you care?* Applied Ergonomics, Atlanta, GA, USA
10. Hoyle, W.S., **Peres, S.C.**, Shorts, A., & Mehta, R.K. (2017) *Effects of situation awareness for performance with offshore drilling: How does task complexity and criticality interact with elements of situation awareness?* Applied Human Factors and Ergonomics, Los Angeles, LA, USA

11. Williams, J., Sasangohar, F. & **Peres, S.C.** (2017) *Investigating procedures in process safety* Applied Human Factors and Ergonomics, Los Angeles, LA, USA
12. Moon, J., **Peres, S.C.**, & Sasangohar, F. (2017). *Defining and measuring team cognition in emergency response: A scoping literature review*. Poster session of the Southwest Regional Human Factors and Ergonomics Society Symposium. San Antonio, Texas.
13. **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.
14. 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.
15. **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.
16. **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
17. **Peres, S. C.** & Mannan, M. S., (2015). Advancing Procedures: Human Factors and Procedure Presentation and Design. Presentation at the Association of International Chemical Engineers
18. **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.
19. **Peres, S C.** & Mehta, R. K. (2014). Software biomechanics. Applied Ergonomics Conference. Orlando, FL. Mar 24-27.
20. **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

1. Lander, E., & **Peres, S. C.** (2015). *Increasing Operational Efficiency And Human Reliability*. Presentation at the Marcus Evans Petrochemical and Refining Summit, Houston, Texas, USA.
2. 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.
3. **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.
4. **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.
5. 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.
6. 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.
7. Sonaike, 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.
8. 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
9. **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.
10. **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.

11. **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.
12. 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.
13. **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.
14. 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.
15. 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.
16. 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.
17. *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.
18. 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.
19. 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.
20. **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.
21. 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.
22. 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
23. 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
24. 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.
25. Hayes, P. K., Jardina, J., Aldridge, G. & **Peres, S.C.** (2009) Eye blink as a measure of workload for auditory displays. Poster presented at the Houston Human Factors and Ergonomics One-Day symposium, Houston, TX.
26. 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.
27. **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.
28. 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
29. Marchesini, M. & Sanders, B. (2006) Evaluation of Multimedia Methods of Statistics Instruction, Poster presented at the Southwest Teaching of Psychology Conference, Houston, TX USA.
30. 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
31. **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.
32. **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.
33. **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.
34. 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.

35. **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.

Regional and Local Presentations

1. **Peres, S. C.** (2014) Biomechanics of Software Design: Translating sEMG Measures Noldus User Group Meeting
2. **Peres, S. C.** & Garrett, G. (2014) Touchpad Usability Study Presentation to Dell Usability Team
3. **Peres, S. C.** (2014) Human Factors and Process Safety: How to Make the Fit. Mary Kay O'Connor Process Safety Center Steering Committee Meeting
4. **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
5. **Peres, S. C.** (2009) Warnings and Hazard Communication, Presentation in Safety Engineering class at UHCL, September, 2009
6. **Peres, S. C.** (2009) Role of Women in Technology, Presentation in Women's Studies Seminar at UHCL, March, 2009
7. **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
8. **Peres, S. C.** (2009) Presented summary of the research in the RIHM lab at UHCL to the Habitability and Environmental Factors Division, February 2009
9. **Peres, S. C.** (2009) Review of Human Computer Interaction. Presentation in Human Factors Engineering class at UHCL, July 2009.
10. **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
11. **Peres, S. C.**(2007) Review of Human Computer Interaction. Presentation in Human Factors for Industrial Designers class at the University of Houston, November, 2007.
12. **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.
13. **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
14. **Peres, S. C.** (2006) Review of Human Computer Interaction. Presentation in Human Factors Engineering class at UHCL, March 2006.

Teaching

Graduate

Texas A&M School of Public Health

Human Factors	Spring 2014 – current
Environmental & Occupational Health Capstone	Spring 2018 – current
Methods in Environment & Occupational Health	Fall 2019 – current

University of Houston-Clear Lake - Graduate

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

University of Houston-Clear Lake - Undergraduate

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

Rice University - Undergraduate

Cognitive Psychology	Fall 2009, Spring 2010, Spring 2011
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St. Thomas University - Undergraduate
Inferential Statistics

Spring 2004

College of the Mainland - Undergraduate

Introduction to Psychology
Lifespan

Fall 1996, Spring 1997
Fall 1997

Advising and Mentoring

Current:

1. Atif Ashraf (chair), Texas A&M University, Dr.Ph., Occupational Health
2. W. Sloane Hoyle (chair), Texas A&M University, Dr.Ph., Occupational Health
3. Ashley Shortz, Texas A&M University, Dr.Ph., Occupational Health
4. Yashfin Mahid, Texas A&M University, M.S., Chemical Engineering
5. Zach Traylor, Texas A&M University, Ph.D., Psychology
6. Gehan Flanders, Texas A&M University, Ph.D., Nuclear Engineering

Graduated (chair or co-chair):

1. Changwon Son (**co-chair**), Texas A&M University, Ph.D., Industrial Engineering, 2021
2. Jukrin Moon (**co-chair**), Texas A&M University, Ph.D., Industrial Engineering, 2021
3. Mohaned Yahya K Faisal (**chair**), Texas A&M University, M.S., Safety Engineering, 2021
4. William Johnson (**chair**), Texas A&M University, Dr.Ph., Occupational Health 2018
5. Paul Ritchey (**co-chair**), Texas A&M University, Dr.Ph., Occupational Health 2017
6. Daniel Verona (**chair**), Texas A&M University, M.S., Biomedical Engineering 2017
7. April Amos (**chair**), University of Houston-Clear Lake, M.A., Psychology 2015
8. Katherine Bruton (**chair**), University of Houston-Clear Lake, M.A., Psychology 2012
9. Jo Jardina (**chair**), University of Houston-Clear Lake, M.A., Psychology 2011

Graduated (committee member):

1. Mengxi Yu, Texas A&M University, Ph.D., Chemical Engineering 2021
2. Farzaneh Shahini Texas A&M University, M.S., Industrial & Systems Engineering, 2021
3. Jan Dufek, Texas A&M University, Ph.D., Computer Science and Engineering 2020
4. Johnen Ardoin, Texas A&M University, Ph.D., Industrial Engineering, 2018
5. Juliana A. Guarguati Ariza, Texas A&M University, M.S., Chemical Engineering 2016
6. Daniel Carey, Texas A&M University, Ph.D., Mechanical Engineering 2016
7. Jehova Arenas Reyes, Texas A&M University, M.S., Chemical Engineering 2016
8. Mengxi Yu, Texas A&M University, M.S., Chemical Engineering 2016
9. Ming Zeng, Texas A&M University, M.S., Chemical Engineering 2016
10. William Amonette, University of Texas Medical Branch, Ph. D., Rehabilitation Sciences 2011
11. Yasser Elouri, University of Houston-Clear Lake, M.S., Environmental Science 2009
12. Ashitra Megasari, University of Houston-Clear Lake, M.S., Environmental Science 2009
13. Shahab Dean Aslinia, University of Houston-Clear Lake, M.A., Psychology 2007

Service

Texas A&M University

Committee on Academic Freedom, Responsibility, and Tenure (CAFRT)
Faculty Advisor for Texas A&M Health Science Center Post-Doctoral Association
School of Public Health Faculty Council Leadership Team

National Academy of Science, Engineering, and Medicine

Member, Committee on Progress and Opportunities Toward Decreasing the Risk of Offshore Energy Operations

Standards Committees

Member, American Petroleum Institute (API) RP 75 review committee on Human Factors element
Member, Center for Offshore Safety's Operating Procedures Workgroup

Associate Editor

Ergonomics in Design

Editorial Board Member:

Applied Ergonomics

Human Factors

Ergonomics in Design

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,

UHCL 2006, 2007, 2008, 2009, 2010, 2012

Human Factors and Ergonomics Society Service

National

2019 – Scholarship Research Task force

2019 – Committee on Evaluation of Smith-Bucklin

2019 – Chair of the Emerging Topic Fellowship Task Force

2017 – 2018 – Chair of the Operations Transition Task Force

2016 – 2018 – Representative on American Petroleum Institute's Recommended Practice 75 Revision TF

2017 – Human Factors to Support Safer and Effective Offshore Energy Operations

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

2006, 2009, 2013 – President

2003 – 2013 – Board member

2015 – Symposium chair

Texas A&M University

2016 - current – Student chapter faculty sponsor

University of Houston-Clear Lake

2006 - 2013 – Student chapter faculty sponsor

International Community for Auditory Display (ICAD)

2012 – 2018 – Board member

The World of Work, Inc.

2010 – current – 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)

Forensic Experience

2006 – current Human Factors/Warnings expert witness

Currently retained:

KTCA Holdings, LLC; and Copper Ridge Disposal, LLC v. Oil States Industries, Inc.: District Court for Oklahoma County State of Oklahoma

Garcia and Sparkman v. Hydratight Operations, Inc.: District Court for Harris Co. State of Texas

Provided testimony as an expert witness by deposition:

Cooper v. Mahindra USA, Inc. and KMW, Ltd.: District Court of Harris County, Texas

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:

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

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

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.