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EDUCATION

B.A. (Psychology), Rutgers College, Rutgers University, 1981

M.A. (Psychology), University of Cincinnati, 1985
Thesis Title: Event Asynchrony and Sustained Attention

Ph.D. (Psychology), University of Cincinnati, 1987
Dissertation Title: The Role of Time and Cueing in Lectures: Implications for Note-Taking Behavior and Immediate Retention

EXPERIENCE

Research Assistant, AT&T Bell Laboratories, Murray Hill, NJ, 1980-1982
Intern, AT&T Communications, Cincinnati, OH, 1984
Intern, AT&T Systems Evaluation Center, Piscataway, NJ, 1985
Instructor in Psychology, University of Cincinnati, 1985-1987
Research Director, AT&T Systems Evaluation Center, Somerset, NJ, 1987-1990
Instructor in Psychology, Rutgers University, 1988-1990
Asst. Professor, Old Dominion University, Norfolk, VA, 1990-1996
Assoc. Professor, Old Dominion University, Norfolk, VA, 1996-2004
Co-Director, National Center for Collaboration in Medical Modeling and Simulation, 2005-2010
Professor, Old Dominion University, Norfolk, VA, 2004-present

PUBLICATIONS

Journal Articles

Allen, R.B., & Scerbo, M.W. (1983). Details of command language keystrokes. *ACM Transactions on Office Information Systems*, 1₂, 159-178.

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Edited Books

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Nestel, D., Hui, J., Kunkler, K., Calhoun, A.W., & Scerbo, M.W. (2019). *Healthcare Simulation Research: A Practical Guide.* Cham, Switzerland: Springer.

Book Chapters

Scerbo, M.W., Fisk, A.D., & Limanowski, J.J. (1984). Procedural on-line documentation. In A. Mital (Ed.), *Trends in Ergonomics/Human Factors I.* (pp. 101-105). North Holland: Elsevier Science Publishers.

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- Staskon, F., & Scerbo, M.W. Knowledge acquisition: A comparison of general interviewing with an interview using cluster analysis. Southern Society for Philosophy and Psychology, Louisville, Kentucky, March, 1990.
- Schwein, R.D., Scerbo, M.W., Staskon, F., & Prasse, M. Retention and dialing speed for telephone numbers in vanity and numerical presentation formats. AT&T Behavioral Sciences Days '90. Holmdel, NJ, June, 1990.
- Scerbo, M.W. Step and sine function shifts in event rate in sustained attention. Southern Society for Philosophy and Psychology, Atlanta, GA, March, 1991.
- Scerbo, M.W. Usability engineering approach to software quality. 45th Annual Quality Congress of the American Society for Quality Control, Milwaukee, WI, May, 1991.
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- Morrison, J.G., Forster, E., Hitchcock, E.M., Barba, C., Santarelli, T., & Scerbo, M.W. Cumulative effects of G on cognitive tasks. Workload Sub-Group of the DoD Human Factors Engineering Technical Group, San Diego, CA, November, 1993.
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- Scerbo, M.W., & Sawin, D.A. Vigilance: How much is enough? The Second Annual Mid-Atlantic Human Factors Conference. Reston, VA, February, 1994.
- Scerbo, M.W., Rettig, K., & Bubb-Lewis, C. A validation study of a task-related boredom survey. The Second Annual Mid-Atlantic Human Factors Conference. Reston, VA, February, 1994.
- Scerbo, M.W. Implementing adaptive automation in aviation: The pilot-cockpit team. The First Automation Technology and Human Performance Conference, Rockville, MD, April, 1994.
- Bishop, P., Scerbo, M.W., Kelley, M., & Aiello, F. Assessing attention deficit disorder with perceptual and memory tasks. The Virginia Psychological Association Conference, Charlottesville, VA, April, 1994.
- Ceplenski, P.J., Scerbo, M.W., & Major, D. (1994). Improving vigilance performance through the use of highly acquainted individuals. The 72nd Annual Meeting of the Virginia Academy of Science, Harrisonburg, VA, May, 1994.
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- Brand, J.L., Whitter, K.S., Hake, S., & Scerbo, M.W. COPE task and mental workload: Memory load and list length effects. Annual Meeting of the American Psychological Association, August, 1994.
- Miller, R.W., Rettig, K.M. & Scerbo, M.W. The "Purple Haze" of nonsignificant results. The 38th Annual Meeting of the Human Factors & Ergonomics Society, Nashville, TN, October, 1994.
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- Prinzel, L.J., Freeman, F.G., Koontz, K.E., & Scerbo, M.W. Sex differences in vigilance performance and subjective workload: They really are task specific. The Southern Society for Philosophy and Psychology, Virginia Beach, VA, April, 1995.
- Hitt, J.M., & Scerbo, M.W. The recognition of statistical significance of unplanned comparisons using error bars. The 73rd Annual Meeting of the Virginia Academy of Science, Harrisonburg, VA, May, 1995.
- Hitt, J.M., Prinzel, L.J., Freeman, F.G., & Scerbo, M.W. A feedback control system for regulating operator engagement in a simulated flight environment. The 73rd Annual Meeting of the Virginia Academy of Science, Harrisonburg, VA, May, 1995.
- Forster, E. M., Morrison, J.G., Scerbo, M.W., & Hitchcock, E.M. Performance during a simulated surface to air missile avoidance G profile. Annual Meeting of the Aerospace Medical Association, Anaheim, CA, May, 1995.
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- Prinzel, L.J., Scerbo, M.W., Freeman, F.G., Mikulka, P.J. A bio-cybernetic system for adaptive automation. The 39th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA, October, 1995.
- Scerbo, M.W. The effects of positive acceleration on cognitive performance: Big G - Little know. The 39th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA, October, 1995.
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- Prinzel, L.J., Scerbo, M.W., Freeman, F.G., & Mikulka, P.J. Behavioral and physiological correlates of a bio-cybernetic, closed-loop system for adaptive automation. The Second Automation Technology and Human Performance Conference, Orlando, FL, Mar, 1996.
- Bubb-Lewis, C., & Scerbo, M.W. Getting to know you: Human-computer communication in adaptive automation. The Second Automation Technology and Human Performance Conference, Orlando, FL, Mar, 1996.
- Ceplenski, P.J., Scerbo, M.W., & Major, D.A.(1996). Multiple monitors and knowledge of results in vigilance: The decrement still wins. The 40th Annual Meeting of the Human Factors & Ergonomics Society, Philadelphia, PA, September, 1996.
- Bishop, P.J., Scerbo, M.W., Kelley, M.L., Coates, G.D., & Aiello, F. Knowledge of results in simultaneous and successive vigilance tasks: What children can teach us. The 40th Annual Meeting of the Human Factors & Ergonomics Society, Philadelphia, PA, September, 1996.

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- Prinzel, L.P., Freeman, F.G., Scerbo, M.W., & Mikulka, P.J. (1997, Sept.). A biocybernetic system for examining psychophysiological correlates for adaptive automation. The 41st Annual Meeting of the Human Factors & Ergonomics Society, Albuquerque, NM.
- Schoenfeld, V., & Scerbo, M.W. (1997, Sept.). Search differences for the presence and absence of features in sustained attention. The 41st Annual Meeting of the Human Factors & Ergonomics Society, Albuquerque, NM.
- Krahl, K., & Scerbo, M.W. (1997, Sept.). Performance on an adaptive automated team tracking task with human and computer teammates. The 41st Annual Meeting of the Human Factors & Ergonomics Society, Albuquerque, NM.
- Sinn, J.S., & Scerbo, M.W. (1997, Oct.). Does system modeling foster domain-general mental models? Examining an assumption of system dynamics management education. The 18th Annual Meeting of the American Society for Engineering Management, Virginia Beach, VA.
- Scerbo, M.W. & Krahl, K. (1997, Oct.). Adaptive automation: When your teammate isn't human. The 18th Annual Meeting of the American Society for Engineering Management, Virginia Beach, VA.
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- Krahl, K., LoVerde, J.L., & Scerbo, M.W. (1998, Mar.). Skill Acquisition with Human and Computer Teammates: Performance with team KR. The Third Conference on Automation technology and Human Performance, Norfolk, VA.
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- Bubb-Lewis, C., & Scerbo, M.W. (1998, Mar.). Does desire for control affect interactions in an adaptive automated environment? The Third Conference on Automation technology and Human Performance, Norfolk, VA.
- Scerbo, M.W. (1998, Mar.). The R.M.S. Titanic: A siren of technology. The Third Conference on Automation technology and Human Performance, Norfolk, VA.
- Sing, J.M., Sinn, J.S., & Scerbo, M.W. (1998, Oct.). System dynamics training: How robust are the mental models? The 19th Annual Meeting of the American Society for Engineering Management, Va. Beach, VA.

- Stark, J.M., & Scerbo, M.W. (1998, Oct.). The effects of complacency potential and boredom proneness on perceived workload and task performance in an automated environment. The 42nd Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- LoVerde, J.L., & Scerbo, M.W. (1998, Oct.). Skill acquisition with human and computer teammates: Don't sit so close to me. The 42nd Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- Prinzel, L.J., Freeman, F.G., Scerbo, M.W., Mikulka, P.J., & Pope, A.T. (1998, Oct.). An assessment of the efficacy of event-related potentials for adaptive automation. The 42nd Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- Eischeid, T.M., Scerbo, M.W., & Freeman, F.G. (1998, Oct.). The effects of task partitioning and computer skill on engagement and performance with an adaptive, biocybernetic system. The 42nd Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- Scerbo, M.W. (1998, Oct.). Sources of stress and boredom in vigilance. The 42nd Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- Scerbo, M.W., Freeman, F.G., Mikulka, P.J., Schoenfeld, V., Eischeid, T., Krahl, K., Stark, J.M., & Parasuraman, R. (1999, May). Hazardous states of awareness: What are they and how do we measure them? Tenth symposium on Aviation Psychology, Columbus, OH.
- Scerbo, M.W., & Stark, J.M. (1999, Jun.) Adaptive automation: Who can you turn to when things heat up? The 33rd American Institute of Aeronautics and Astronautics Thermophysics Conference, Norfolk, VA.
- Mikulka, P.J., Hadley, G., Freeman, F.G., & Scerbo, M.W. (1999, Sept.). The effects of a biocybernetic system on the vigilance decrement. The 43rd Annual Meeting of the Human Factors & Ergonomics Society, Houston, TX.
- Catanzaro, J.M., & Scerbo, M.W. (1999, Sept.). Searching for the presence and absence of features in vigilance: The decrement persists. The 43rd Annual Meeting of the Human Factors & Ergonomics Society, Houston, TX.
- Scerbo, M.W. (2000, Aug.). Systems, scenarios, and simulation: Is there a role for human factors? The XIVth Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA.
- LoVerde, J.L., Scerbo, M.W., Freeman, F.G., & Mikulka, P.J. (2000, Aug.). Can a biocybernetic system be used to maintain vigilance performance? The XIVth Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA.
- Stark, J.M., Scerbo, M.W., Freeman, F.G., & Mikulka, P.J. (2000, Aug.). Mental fatigue and workload: Effort allocation during multiple task performance. The XIVth Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA.
- Scerbo, M.W. (2000, Oct.). Adaptable and adaptive technology in the lab and in the field. The Fourth Conference on Human Performance, Situation Awareness and Automation: User-centered design for the new millennium, Savannah, GA.

- Stoughton, J.W., Leathrum, J.F., Rogers, R.A., Scerbo, M.W., Netherton, D.L., Overstreet, C.M., & Levinstein, I.B. (2000, Dec.). A multidisciplinary graduate program in modeling and simulation. Winter Simulation Conference.
- Bailey, N. & Scerbo, M.W. (2000, Oct.). Searching for the presence and absence of motion in dynamic displays. The Fourth Conference on Human Performance, Situation Awareness and Automation, Savannah, GA.
- Bailey, N.R., & Scerbo, M.W. (2001, Oct.). Looking for moving or stationary targets in dynamic displays. The 45th Annual Meeting of the Human Factors & Ergonomics Society, Minneapolis, MN.
- Stark, J.M., Comstock, J.R., Prinzel, L.J., Burdette, D.W., Scerbo, M.W. (2001, Oct.). A preliminary examination of situation awareness and pilot performance in a synthetic vision environment. The 45th Annual Meeting of the Human Factors & Ergonomics Society, Minneapolis, MN.
- Scerbo, M.W. (2001, Oct.). Shared authority in adaptive systems: The case grows stronger. The 45th Annual Meeting of the Human Factors & Ergonomics Society, Minneapolis, MN.
- Smith, C., Mikulka, P., Freeman, F., & Scerbo, M. (2002, Mar.) The effects of event rate and array size on a cognitive vigilance task with associated EEG rhythms and a derived engagement index. Paper presented at the Virginia Space Grant Consortium. Hampton, VA.
- Eischeid, T. M., & Scerbo, M. W. (2002, Oct.). Perceptual cues and subjective organization in a virtual information workspace. The 46th Annual Meeting of the Human Factors & Ergonomics Society, Baltimore, MD.
- Smith, C., Mikulka, P., Freeman, F., & Scerbo, M.W. (2002, Oct.). The effects of event rate and array size on a cognitive vigilance task with associated EEG rhythms and a derived engagement index. The 46th Annual Meeting of the Human Factors & Ergonomics Society, Baltimore, MD.
- Risser, M. R., McNamara, D. S., Baldwin, C. L., Scerbo, M. W., & Barshi, I. (2002, Oct.). Interference effects on the recall of words heard and read: Considerations for ATC communication. The 46th Annual Meeting of the Human Factors & Ergonomics Society, Baltimore, MD.
- Bailey, N. R., & Scerbo, M. W. (2002, Oct.). The horizontal-vertical velocity illusion: Implications for the design of dynamic displays. The 46th Annual Meeting of the Human Factors & Ergonomics Society, Baltimore, MD.
- Scerbo, M.W. (2002, Nov.) Computer teammates: Should they read your mind? Paper presented at the 2002 Fall Symposium of the American Association for Artificial Intelligence, Falmouth, MA.
- McKenzie, F., Scerbo, M., & Catanzaro, J. (2003, Feb.). Generating nonverbal indicators of deception in virtual reality training. The 11-th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision'2003.
- Risser, M.R., Scerbo, M.W., Baldwin, C.L., & McNamara, D. S. (2003, Apr.). ATC Commands executed in speech and text formats: Effects of task interference. The Twelfth International Symposium on Aviation Psychology, Dayton, OH.
- Loftin, R.B., Scerbo, M.W., McKenzie, R., Catanzaro, J. M., Bailey, N. R., Phillips, M. A., & Perry, G. (2003, Oct.). Training in peacekeeping operations using virtual environments. Paper presented at the 2003 NATO Conference on Advanced Technologies for Military Training. Genoa, Italy.

- Bailey, N. R., Scerbo, M.W., Freeman, F.G., Mikulka, P.J., & Scott, L. A. (2003, Oct.). The effects of a brain-based adaptive automation system on situation awareness: The role of complacency potential. The 47th Annual Meeting of the Human Factors & Ergonomics Society, Denver, CO.
- Catanzaro, J. M., Scerbo, M.W., McKenzie, F.D., Phillips, M.A., Bailey, N. R., & Loftin, R.B. (2003, Oct.). A Virtual Environment for Training Military Checkpoint Guards. The 47th Annual Meeting of the Human Factors & Ergonomics Society, Denver, CO.
- Scerbo, M.W., Risser, M. R., Baldwin, C. L., & McNamara, D.S. (2003, Oct.). The Effects of Task Interference and Message Length on Implementing Speech and Simulated Data Link Commands, The 47th Annual Meeting of the Human Factors & Ergonomics Society, Denver, CO.
- Scerbo, M. W., Bliss, J. P., Schmidt, E. A., Thompson, S. N., Cox, T. D., & Poland, H. J. (2004, Jan.). A Comparison of the CathSim™ system and simulated limbs for teaching intravenous cannulation. Presented at Medicine Meets Virtual Reality XII. Newport Beach, CA.
- Schmidt, E. A., Scerbo, M. W., Bliss, J. P., & Thompson, S. N. (2004, March). Skill acquisition with a VR simulator for phlebotomy. The Second Conference on Human Performance, Situation Awareness, and Automation, Daytona Beach, FL.
- Risser, M.R., Scerbo, M.W., Baldwin, C.L., & McNamara, D. S. (2004, March). Implementing voice and datalink commands under task interference during simulated flight. The Second Conference on Human Performance, Situation Awareness, and Automation, Daytona Beach, FL.
- Scerbo, M. W., Freeman, F. G., & Mikulka, P. J. (2004, March). Event Rate Changes and Monitoring Performance Using a Biocybernetic Adaptive System. The Second Conference on Human Performance, Situation Awareness, and Automation, Daytona Beach, FL.
- Hollander, T., Warm, J. S., Matthews, G., Shockley, K., Dember, W. N., Weiler, E. M., & Scerbo, M. W. (2004, Apr.). Feature presence/absence and the event rate effect in sustained attention. Southern Society for Philosophy and Psychology, New Orleans, LA.
- Scerbo, M. W., Weireter, L. J., Bliss, J. P., Schmidt, E. A., & Hanner, H. (2004, Aug.). An examination of surgical skill performance under combat conditions using a mannequin-based simulator in a virtual environment. NATO RTO Human Factors in Medicine, St. Pete Beach, FL.
- Hollander, T., Warm, J. S., Matthews, G., Shockley, K., Dember, W. N., Weiler, E. M., & Scerbo, M. W. (2004, Sept.). Feature presence/absence and the event rate effect in sustained attention. The 48th Annual Meeting of the Human Factors & Ergonomics Society, New Orleans, LA.
- Schmidt, E. A. & Scerbo, M. W. (2004, Sept.) The role of field dependence and independence in visual search. The 48th Annual Meeting of the Human Factors & Ergonomics Society, New Orleans, LA.
- Scerbo, W. W. (Jan., 2005). Human factors and medical simulation. Medicine Meets Virtual Reality XIII. Long Beach, CA.
- Scerbo, M. W., Bliss, J. P., Schmidt, E. A., & Hanner, H. & Weireter, L. J. (Jan., 2005). Assessing surgical skill training under hazardous conditions in a virtual environment. Medicine Meets Virtual Reality XIII. Long Beach, CA.
- Bliss, J. P., Hanner, H. S., & Scerbo, M. W. (Jan., 2005). Determining the efficacy of an immersive trainer for

arthroscopy skills. Medicine Meets Virtual Reality XIII. Long Beach, CA.

- Bowyer, M.W., Pimentel, E.A., Fellows, J.B., Scofield, R.L., Ackerman, V.L., Horne, P.E., Liu, A.V., Schwartz, G.R., & Scerbo, M.W. (Jan., 2005). Teaching intravenous cannulation to medical students: Comparative analysis of two simulators and two traditional educational approaches. Medicine Meets Virtual Reality XIII. Long Beach, CA.
- Scerbo, M.W. (Jul., 2005). Some new virtual environment training applications for dangerous duty. The First International VR Conference/HCI International 2005, Las Vegas, NV.
- Bailey, N. R., & Scerbo, M. W. (Jul., 2005). The impact of operator trust on monitoring a highly reliable automated system. First International Conference on Augmented Cognition/HCI International 2005, Las Vegas, NV.
- Scerbo, M. W. (Jul., 2005). Biocybernetic systems: Information processing challenges that lie ahead. First International Conference on Augmented Cognition/HCI International 2005, Las Vegas, NV.
- Scerbo, M.W. (Aug., 2005). National Center for Collaboration in Medical Modeling and Simulation: Comparing a Virtual Reality Simulator and Simulated Limbs for Training IV Procedures. DoD Baseline Review, St. Pete Beach, FL.
- Thompson, S. N., Bailey, N. R., & Scerbo, M. W. (Sep., 2005). Magnitude estimation of velocity in the X, Y, and Z Axes. The 49th Annual Meeting of the Human Factors & Ergonomics Society, Orlando, FL.
- Bailey, N. R., & Scerbo, M.W. (Sep., 2005). Monitoring complex systems over extended periods of time. The 49th Annual Meeting of the Human Factors & Ergonomics Society, Orlando, FL.
- Scerbo, M. W. (Sep., 2005). The future of medical training and the need for human factors. The 49th Annual Meeting of the Human Factors & Ergonomics Society, Orlando, FL.
- Seevinck, J. A., Scerbo, M. W., Belfore, L.A., Weireter, L. J., Crouch, J. R., Shen, Y., McKenzie, F. D., Garcia, H. M., Girtelschmid, S., Baydogan, E., & Schmidt, E. A. (Jan., 2006). A simulation-based training system for surgical wound debridement. Medicine Meets Virtual Reality XIV. Long Beach, CA.
- Scerbo, M.W. (Jan., 2006). A human factors perspective on systems, patient safety, and simulation. Medicine Meets Virtual Reality 14. Long Beach, CA.
- Stefanidis D., Scerbo, M.W., Korndorffer Jr., J.R., & Scott, D.J. (Mar., 2006). Redefining simulator proficiency using automaticity theory. Association for Surgical Education, Tucson, AZ.
- Scerbo, M. W. (Sept., 2006). The virtual operating room for team training. The 11th American Institute of Aeronautics and Astronautics Multidisciplinary Analysis and Optimization Conference, Portsmouth, VA.
- Finomore, V.S., Warm, J.S., Matthews, G., Riley, M.A., Dember, W.N., Shaw, T.H., Ungar, N.R., & Scerbo, M.W. (Oct., 2006). Measuring the workload of sustained attention. The 50th Annual Meeting of the Human Factors & Ergonomics Society, San Francisco, CA.
- Schmidt, E. A., Scerbo, M. W., Bliss, J. P., Hanner-Bailey, H. S., Garcia, H. M., & Weireter, L. J. (Oct., 2006). Surgical skill performance under combat conditions in a virtual environment. The 50th Annual Meeting of the Human Factors & Ergonomics Society, San Francisco, CA.

- Risser, M.R., Scerbo, M.W., Baldwin, C.L., & McNamara, D. S. (Oct., 2006). Interference timing and acknowledgement response with voice and datalink ATC commands. The 50th Annual Meeting of the Human Factors & Ergonomics Society, San Francisco, CA.
- Scerbo, M.W., Belfore, L. A., Garcia, H. M., & Weireter, L. J., Jackson, M., Nalu, A., & Baydogan, E. (Dec., 2006). The virtual operating room. Interservice/Industry Training, Simulation and Education Conference, Orlando, FL.
- Schmidt, E.A., Scerbo, M.W., Kapur, G., & Heyl, A. R. (Feb., 2007). Task sequencing effects for open and closed loop laparoscopic skills. Medicine Meets Virtual Reality 15, Long Beach, CA.
- Stefanidis D, Scerbo M.W., Sechrist, C., Mostafavi, A., Heniford, B.T. (Apr. 2007). Can novices achieve automaticity during simulator training? The Association for Surgical Education, Washington, DC.
- Nalu, A., Scerbo, M.W., & Weireter, L. J. (Sep., 2007). Individual personality characteristics for virtual agents in a virtual operating room. MODSIM WORLD, Virginia Beach, VA.
- Anderson, B., Scerbo, M.W., & Belfore, L.A. (Sep., 2007). Stress and workload associated with monitoring simulated maternal-fetal heart rate signals. MODSIM WORLD, Virginia Beach, VA.
- Belfore, L.A., Scerbo, M.W., & Anderson, B. (Sep., 2007). A fetal heart rate monitor simulator. MODSIM WORLD, Virginia Beach, VA.
- Scerbo, M.W. (Sep. 2007). Medical errors and the need for simulation. MODSIM WORLD, Virginia Beach, VA.
- Bustamante, E.A., Anderson, B.L., Thompson, A.R., Bliss, J.P., & Scerbo, M.W. (Oct., 2007). Robustness of the *a b* signal detection theory model of decision making. The 51st Annual Meeting of the Human Factors & Ergonomics Society, Baltimore, MD.
- Scerbo, M.W., Belfore, L.A., Garcia, H.M., Weireter, L.J., Jackson, M.W., Nalu, A., Baydogan, E., Bliss, J.P., & Seevinck, J. (Oct., 2007). A Virtual operating room for context-relevant training. The 51st Annual Meeting of the Human Factors & Ergonomics Society, Baltimore, MD.
- Scerbo, M. W., Anderson, B.L., Belfore, L. A., & Abuhamad A. Z. (Jan. 2008). Monitoring simulated maternal-fetal heart rate signals. Medicine Meets Virtual Reality 16, Long Beach, CA.
- Scerbo, M. W. (Jan. 2008). Can principles of user interface design improve the next generation of medical simulators? Medicine Meets Virtual Reality 16, Long Beach, CA.
- Scerbo, M.W. (Jan. 2008). VR Simulators: Why high fidelity is not always better. The 8th International Meeting on Simulation in Healthcare. San Diego, CA.
- Scerbo, M.W. (Jan. 2008). Human factors in medical simulation. The 8th International Meeting on Simulation in Healthcare. San Diego, CA.
- Mielke, R. R., Scerbo, M.W., Gaubatz, K. T., & Watson, G. S. (Apr. 2008). A Multidisciplinary model for M&S graduate education. 2008 Spring Simulation Multiconference, Ottawa, Canada.
- Scerbo, M.W. (2008, May). The health care quality crisis, medical simulation, and the need for human factors psychology. The Science and Applications of Perception Psychology Conference. Cincinnati, OH.

- Anderson, B. L., Scerbo, M. W., Belfore, L. A., & Abuhamad, A. (Sep., 2008). Detecting critical patterns in maternal-fetal heart rate signals. The 52nd Annual Meeting of the Human Factors & Ergonomics Society, New York, NY.
- Scerbo, M.W. (Sep. 2008). Fidelity issues in medical simulation. MODSIM WORLD'08, Virginia Beach, VA.
- Scerbo, M.W., Turner, T.R., Meglan, D.A., & Waddington, R. (Jan. 2009). A comparison of visual and haptic feedback on a simulated bone pinning task. The 9th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M. W., Garcia, H. M., Belfore II, L. A., Weireter Jr, L.J., Rushing, G D., Jackson, M. W., Baydogan, E., Nalu, A., & Newlin, E. T. (Jan. 2009). A virtual operating room for surgical teams. The 9th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M.W., Turner, T.R., Meglan, D.A., & Waddington, R. (Oct., 2009). Evaluating visual and haptic feedback on a virtual reality simulator for orthopedic bone pinning. The 53rd Annual Meeting of the Human Factors & Ergonomics Society, San Antonio, TX.
- Anderson, B. L., Scerbo, M. W., Belfore, L. A., & Abuhamad, A. (Oct. 2009). Detecting critical patterns in maternal-fetal heart rate tracings over time. The 53rd Annual Meeting of the Human Factors & Ergonomics Society, San Antonio, TX.
- Liu, M., Belfore, L.A., Shen, Y., & Scerbo, M.W. (Oct., 2009). Uterine contraction modeling and simulation. MODSIM WORLD, Virginia Beach, VA.
- Anderson, B. L., Scerbo, M. W., Belfore, L. A., & Abuhamad, A. (Jan. 2010). When is a deceleration perceived as a late deceleration? The 10th International Meeting on Simulation in Healthcare, Phoenix, AZ.
- Newlin-Canzone, E. T., Scerbo, M.W., Gliva-McConvey, G., & Wallace, A. M. (Jan. 2010). Inside the standardized patient's mind: Understanding the cognitive challenges. The 10th International Meeting on Simulation in Healthcare, Phoenix, AZ.
- Scerbo, M.W. (Jan. 2010). Simulation: Fidelity, realism and surrealism. The 10th International Meeting on Simulation in Healthcare, Phoenix, AZ.
- Stefanidis, D., & Scerbo, M.W., (Mar. 2010). Proving the importance of secondary task metrics for performance assessment on surgical simulators. The 2010 Annual ACS Educational Institute Consortium Meeting, Chicago, IL.
- Stefanidis, D., Acker, C., Montero, P., Prabhu, A., Smith, W., & Scerbo M.W. (Apr. 2010). Simulator Training to Automaticity Leads to Improved Skill Transfer Compared to Traditional Proficiency-based Training. 2010 Surgical Education Week, San Antonio, TX.
- Scerbo, M. W. (Jun. 2010). Medical simulator training systems for maternal-fetal health and surgery. Southeastern Virginia Biomedical Technology Partnership Forum, Newport News, VA.
- Newlin-Canzone, E. T., Scerbo, M.W., Gliva-McConvey, G., & Wallace, A. M. (Jun. 2010). The Role of Human Factors in SP Training. The 9th Annual Association of Standardized Patient Educators Conference, Baltimore, MD.
- Scerbo, M.W., Turner, T.R., Newlin-Canzone, E., Meglan, D., Waddington, R., King, D., & Champion, H. (Oct.

2010). A preliminary evaluation of a burr hole drilling simulator for craniotomy. The 54th Annual Meeting of the Human Factors & Ergonomics Society, San Francisco, CA.

Scerbo, M. W., Kennedy, R. A., & Anderson, B. L. (Jan. 2011). Evaluation of a secondary task for laparoscopy. The 11th International Meeting on Simulation in Healthcare, New Orleans, LA.

Scerbo, M. W., Turner, T. R., Newlin-Canzone, E., Kennedy, R., Meglan, D., Waddington, R., King, D., & Champion, H. (Jan. 2011). Evaluation of a craniotomy burr hole drilling simulator. The 11th International Meeting on Simulation in Healthcare, New Orleans, LA.

Outstanding Poster – 2nd Place

Newlin-Canzone, E. T., Scerbo, M. W., Gliva-McConvey, G., Wallace, A. M., & Lyman, L. (Jun. 2011). The impact of improvised responses on the ability to portray and observe. The 10th Annual Association of Standardized Patient Educators Conference, Nashville, TN.

Scerbo, M. W. (Sep. 2011). The Role of simulation in teaching medical teamwork. The 55th Annual Meeting of the Human Factors & Ergonomics Society, Las Vegas, NV.

Newlin-Canzone, E. T., Scerbo, M. W., Gliva-McConvey, G., & Wallace, A. M., (Sep. 2011). Attentional and mental workload demands in nonverbal communication. The 55th Annual Meeting of the Human Factors & Ergonomics Society, Las Vegas, NV.

Prytz, E., Scerbo, M. W., & Kennedy, R. (Sep. 2011). Spatial judgments from different vantage points: A different perspective. Attentional and mental workload demands in nonverbal communication. The 55th Annual Meeting of the Human Factors & Ergonomics Society, Las Vegas, NV.

Outstanding Technology & Program Innovation Abstract – 2nd Place

Scerbo, M. W., Turner, R., Padilla, M., Gliva-McConvey, G., & Walker, P. (Jan. 2012). Teaching communication skills using standardized patients in a team scenario: A G theory analysis. The 12th International Meeting on Simulation in Healthcare, San Diego, CA.

Outstanding Research Abstract – 4th Place

Kennedy, R. A., & Scerbo, M. W. (Jan. 2012). Initial laparoscopic performance: Impoverished visual-spatial cues compromise movements in the depth plane. The 12th International Meeting on Simulation in Healthcare, San Diego, CA.

Newlin-Canzone, E. T., Scerbo, M. W., Gliva-McConvey, G., & Wallace, A. M. (Jan. 2012). Measuring the effects of improvisations, portrayal, and assessment on the standardized patients' mental workload. The 12th International Meeting on Simulation in Healthcare, San Diego, CA.

Anderson, B. L., Scerbo, M. W., Kennedy, R., Belfore, L., Abuhamad, A., Davis, S., & Chauhan, S. (Jan. 2012). Critical signal detection during multiple patient monitoring of fetal heart rate tracings. The 12th International Meeting on Simulation in Healthcare, San Diego, CA.

Kron, F., Fetters, M., Scerbo, M., Campbell, T., & White, C. (Jan. 2012). Interactive virtual human patient software utility for competency assessment in breaking bad news to a cancer patient. The 12th International Meeting on Simulation in Healthcare, San Diego, CA.

Scerbo, M. W. (Jan. 2012). Training the exceptional surgeon. The 12th International Meeting on Simulation in Healthcare, San Diego, CA.

- Hui, J., Scerbo, M.W., & Park, C. (Jan. 2012). Guidelines for conducting rigorous simulation-based research and innovation. The 12th International Meeting on Simulation in Healthcare, San Diego, CA.
- Scerbo, M. W., Turner, T. R., Gliva-McConvey, G. & Walker, P. (Mar., 2012). Addressing conflicts among healthcare professionals through simulation with standardized healthcare professionals. The 2012 Symposium on Human Factors and Ergonomics in Health Care: Bridging the Gap. Baltimore, MD.
- Anderson, B. L., Kennedy, R. A., Scerbo, M.W., Belfore, L., A., Abuhamad, A. Z., Davis, S. S., & Chauhan, S. P. (Mar. 2012). A Simulator for fetal heart rate monitoring. The 2012 Symposium on Human Factors and Ergonomics in Health Care: Bridging the Gap. Baltimore, MD.
- Prytz, E. G., Montano, M., Kennedy, R. A., & Scerbo, M. W. (Mar. 2012). A secondary task for measuring mental workload in laparoscopy. The 2012 Symposium on Human Factors and Ergonomics in Health Care: Bridging the Gap. Baltimore, MD.
- Scerbo, M.W., Britt, R. C., Davis, S. S., & Stefanidis, D. (Sep., 2012). A new spatial task for measuring skill in laparoscopic surgery. The 2012 Agency for Healthcare Research & Quality Annual Conference. Bethesda, MD.
- Scerbo, M. W., Meglan, D., Liu, A., & Dawson, S. (Oct., 2012). Creating healthcare simulation training systems: A designer's forum. The 56th Annual Meeting of the Human Factors & Ergonomics Society, Boston, MA.
- Kennedy, R.A., Anderson-Montoya, B. L., Scerbo, M. W., Prytz, E., Belfore, L. A., Abuhamad. A. Z., Davis, S.S., & Chauhan, S.P. (2012). The influence of visual aids on detecting early and late decelerations in maternal-fetal heart rate patterns. The 56th Annual Meeting of the Human Factors & Ergonomics Society, Las Vegas, NV.
- Prytz, E., Montano, M., & Scerbo, M. W. (2012). Using Fitts' Law for a 3D pointing task on a 2D display: Effects of depth and vantage point. The 56th Annual Meeting of the Human Factors & Ergonomics Society, Las Vegas, NV.
- Britt, R.C., Ramirez, D., Gliva-McConvey, G.A., Lyman, L., Scerbo, M.W., & Anderson-Montoya, B. A. (Jan. 2013). Assessing handoff effectiveness using standardized patients. The 13th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M.W., Croll, M.M., Garcia, H.M., Stefanidis, D., Britt, R. C., Davis, S. S. (Jan. 2013). A spatial task for measuring laparoscopic mental workload. The 13th International Meeting on Simulation in Healthcare, Orlando, FL.
- Outstanding Research Abstract – 2nd Place
 Prytz, E, Montano, M., Kennedy, R., Scerbo, M., Britt, R., Davis, S., & Stefanidis, D. (Jan. 2013). Using a spatial task to measure laparoscopic mental workload: Initial Results. The 13th International Meeting on Simulation in Healthcare, Orlando, FL.
- Hui, J., & Scerbo, M.W. (Jan. 2013). When and how: Quantitative and qualitative simulation-based research. The 13th International Meeting on Simulation in Healthcare, Orlando, FL.
- Hui, J., Scerbo, M.W., Sanko, J., & Cason, C. (Jan. 2013). Have your research reviewed by the experts. The 13th International Meeting on Simulation in Healthcare, Orlando, FL.

- Ramirez, D. W., Britt, R. C., Anderson-Montoya, B., & Scerbo, M. W. (2013). Assessing the efficacy of pediatric intern hand-off training. Poster presented at the 2013 Association of Pediatric Program Directors/Council on Medical Student Education in Pediatrics Combined Annual Spring Meeting., Nashville, TN.
- Britt, R. C., Ramirez, D., Anderson-Montoya, B. L., Scerbo, M. W., & Britt, L. D. (2013). Resident perceptions of barriers to adequate patient handoff. Paper presented at the 2013 Consortium of Accredited Education Institutes for the American College of Surgeons. Chicago, IL.
- Prytz, E., Montano, M., & Scerbo, M. Measuring Mental Workload in Laparoscopy with a Secondary Task. Poster at the 2013 Symposium on Human Factors and Ergonomics in Health Care: Advancing the Cause, Baltimore, MD, March 11-13, 2013.
- Prytz, E., Montano, M., Kennedy, R., Anderson-Montoya, B., Scerbo, M., Parodi, A., & Armstrong, B. (2013). A Model for Evaluating Healthcare Simulation Systems. 2013 Symposium on Human Factors and Ergonomics in Health Care: Advancing the Cause, Baltimore, MD, March 11-13, 2013.
- Britt, R. C., Ramirez, D., Anderson-Montoya, B. L., Scerbo, M. W., & Britt, L. D. (2013, Apr.). Surgery resident handoff training: Initial evaluation of a novel method. Paper presented at the 2013 Association of Program Directors in Surgery Meeting. Chicago, IL.
- Scerbo, M.W., Prytz, E., Kennedy, R., Byars, D., Goodmurphy, C., Knapp, B., Miller, G., Lattanzio, F., Shaves, S., Solhaug, M., Levitiov, A., Abuhamad, A., & Toreno, F. (2013, Sept.). Spatial abilities and ultrasonography: Do differences between male and female medical students matter? Second World Congress on Ultrasound in Medical Education, Columbia, SC.
- Miller G.T., Scerbo, M.W., Byars, D., Goodmurphy, C., Knapp, B., Shaves, S., Lattanzio, F., Solhaug, M., & Levitov, A. (2013, Sept.). A blended-learning, integrated ultrasonography curriculum for first-year medical students: Development, implementation and lessons learned. Second World Congress on Ultrasound in Medical Education, Columbia, SC.
- Miller G.T., Scerbo, M.W., Byars, D., Goodmurphy, C., Knapp, B., Shaves, S., Lattanzio, F., & Solhaug, M. (2013, Sept.). Learner improvement and appreciation from a blended-learning, simulation-enhanced ultrasonography curriculum for first-year medical students. Second World Congress on Ultrasound in Medical Education, Columbia, SC.
- Anderson-Montoya, B. L., Scerbo, M. W., Kennedy, R.A., Belfore, L. A., Abuhamad. A. Z., Davis, S.S., & Chauhan, S.P. (2013, Oct.). Observer's performance and perceptual sensitivity for detecting critical patterns in static maternal-fetal heart rate images. The 57th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA.
- Turner, T.R., Scerbo, M.W., Gliva-McConvey, G., & Wallace, A. M., (2013, Oct.). Evaluating physician-to-patient communication: The effects of concurrent and retrospective assessment on verbal and nonverbal recall. The 57th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA
- Scerbo, M.W., Kennedy, R.A., Montano, M., Britt, R.C., Davis, S.S., & Stefanidis, D. (2013, Oct.). A spatial secondary task for measuring laparoscopic mental workload: Differences in surgical experience. The 57th Annual Meeting of the Human Factors & Ergonomics Society, San Diego, CA

- Scerbo, M., Montano, M., Prytz, E, Britt, R., Davis, S., & Stefanidis, D. (2013, Oct.). Measuring mental workload in laparoscopy with a secondary task and self-reported ratings. American College of Surgeons Clinical Congress, Washington, DC.
- Scerbo, M., Montano, M., Prytz, E, Britt, R., Davis, S., & Stefanidis, D. (2013, Oct.). Improving the quality and content of the surgical handoff: An innovative method. American College of Surgeons Clinical Congress, Washington, DC.
- Scerbo, M.W. (2014, Mar.). Establishing performance metrics and outcomes. Second Conference on Ultrasound in Anatomy and Physiology Education, Norfolk, Virginia.
- Papelis, Y.E., Croll, M., Garcia, H.M., Scerbo, M.W., & Kennedy, R.A. (2014, Apr.). Behavior Authoring and Run-time Management of Computer Agents for a Virtual Operating Room Training Environment. MODSIM World 2014, Hampton, VA.
- Britt, R. C., Scerbo, M. W., Montano, M., Kennedy, R., Prytz, E., & Stefanidis, D. (2014). Intracorporeal suturing: Transfer from FLS to cadavers results in substantial increase in mental workload. Paper presented at the 2014 Consortium of Accredited Education Institutes for the American College of Surgeons. Chicago, IL.
- Ramirez, D.E., McCarthy, J.L., Britt, R.C., Anderson-Montoya, B.L., & Scerbo, M.W. (2014, May). An innovative approach to intern hand-off training. Pediatric Academic Societies, Vancouver, Canada.
- Ashdown, A.J., Scerbo, M. W., Anderson-Montoya, B. L., Belfore, L. A., Abuhamad. A. Z., Davis, S.S. (2014, Oct.). User placement of a visual aid for detecting critical signals in fetal-heart rate tracings: A yoke-control study. The 58th Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- Prytz, E. & Scerbo, M. W. (2014, Oct.). The effects of a workload transition on stress over time. The 58th Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- Kennedy, R.A., Scerbo, M.W., Papelis, Y., Croll, M., Garcia, H. (2014, Oct.). An immersive virtual operating room for training team skills in surgery. The 58th Annual Meeting of the Human Factors & Ergonomics Society, Chicago, IL.
- Hui, J., Scerbo, M.W., Sanko, J., & Kardon-Edgren, S. (Jan. 2015). Have your research reviewed by the experts. The 15th International Meeting on Simulation in Healthcare, New Orleans, LA.
- Leathrum, J., Mielke, R., Audette, M., McKenzie, F., Armstrong, R., Miller, G., & Scerbo, M.W. (2015, July). An architecture to support integrated manikin-based simulations. Summer Simulation Multiconference 2015, Chicago, IL.
- Becker, D.M., Kron, F.W., Feters, M.D., Scerbo, M.W., Lypson, M.L., Padilla, M.A., Gliva-McConvey, G.A., White, C.B., Belfore, L.A., West, T., Wallace, A.M., Schleicher, L.S., Kennedy, R.A., Mangrulkar, R.S., Cleary, J.F., & Marsella, S.C. (2015, Oct.). A multisite randomized comparison of interactive virtual human simulation (MPathic-VR) and standard multimedia for teaching advanced communication skills among second-year medical students. 13th International Conference on Communication in Healthcare, New Orleans, LA.
- Feters, M.D., Schleicher, L.S., Scerbo, M.W., White, C.B., Lypson, M.L., Becker, D.M., & Kron, F.W. (2015). Post-Trial Qualitative Assessments Explain Why Second Year Medical Students Exposed to a Virtual Human Computer Simulation Performed Better in a Communications Objective Structured Clinical

Experience than Students Taking a Control Module. 43rd North American Research Group Annual Meeting, Cancun, Mexico.

- Gardner, C.A., & Scerbo, M.W. (2015, Oct.). A novel secondary task enables the quantification of workload differences between traditional and single incision laparoscopic surgery. ACS Clinical Congress, Chicago, IL.
- Ashdown, A.J., Scerbo, M. W., Belfore, L. A., Abuhamad. A. Z., & Davis, S.S. (2015, Oct.). Categorizing fetal heart rate variability with and without visual aids. The 2015 Annual Meeting of the Human Factors & Ergonomics Society, Los Angeles, CA.
- Warvel, L., & Scerbo, M.W. (2015, Oct.). Measurement of mental workload changes during laparoscopy with a visual-spatial task. The 2015 Annual Meeting of the Human Factors & Ergonomics Society, Los Angeles, CA.
- Scerbo, M. W., Britt, R. C., Kennedy, R., Prytz, E., & Stefanidis, D. (2016). Laparoscopic skill and mental workload measured over a retention interval. The 16th International Meeting on Simulation in Healthcare, San Diego, CA.
- Scerbo, M. W., Britt, R. C., Montano, M., Kennedy, R., Prytz, E., & Stefanidis, D. (2016). The effects of a retention interval and refresher session on intracorporeal suturing skill and mental workload. The 9th Annual ACS AEI Consortium Meeting, March 7-8, Chicago, IL.
- Scerbo, M. W., Britt, R. C., & Stefanidis, D. (2016). Differences in mental workload between traditional and single site laparoscopic procedures measured with a secondary task. ASE 2016 Annual Meeting. April 12-14, Boston, MA.
- Kennedy, B., Scerbo, M.W., & Proaps A. (2016). User experience design of virtual training environments. Poster presented at UXPA 2016, June, Seattle, WA.
- Kron, F. & Scerbo, M.W. (2016). Using a computer simulation for teaching advanced communication skills: A blinded multisite mixed methods randomized controlled trial. AMSUS (The Society of Federal Health Professionals) 2016 Annual Meeting, Nov. 29- Dec. 2, Washington, DC.
- Zybak, S., Scerbo, M.W., & Ashdown, A. (2016). System reliability, trust, and complacency in fetal heart rate monitoring. The 2016 Annual Meeting of the Human Factors & Ergonomics Society, Sep. 19-23, Washington, DC.
- Toreno, F., Knapp, B., Byars, D., Goodmurphy, C., Scerbo, M.W., Lyman, L. (2016). Standardized Patients, Image Evaluation, Hands-On Scanning Labs, and Student Feedback Within the Ultrasound Curriculum at Eastern Virginia Medical School. World Congress on Ultrasound in Medical Education Conference. Sep. 23-25, Lubbock, TX.
- Ashdown, A., Zybak, S., Scerbo, M.W., Byars, D.V., Toreno, F., & Knapp, B.J. (2017). A Comparison of standardized patient and sonography student ratings of ultrasound images. The 17th International Meeting on Simulation in Healthcare, Orlando, FL.
- Toreno, F.M., Knapp, B.J., Byars, D., Goodmurphy, C.G., Scerbo, M.W., Shaves, S.J., & Lattanzio, F.A. (2017). Collaboration Between a Medical School and a Community College to Deliver an Ultrasound Enriched Curriculum. The 16th Annual Association of Standardized Patient Educators Conference. June 4-7, Alexandria, VA.

- Fluegel, B.A., Powers, S.A., & Scerbo, M.W. (2018). The effect of interruptions on novices learning a challenging surgical skill. The 2018 Human Factors & Ergonomics Society Annual Meeting, Oct. 1-5, Philadelphia, PA.
- Ashdown, A., Scerbo, M.W., Knapp, B.J., Toreno, F., Goodmurphy, C.W., & Byars, D.V. (2018). Can crowdworkers be used to rate the quality of ultrasound images? The 2018 Human Factors & Ergonomics Society Annual Meeting, Oct. 1-5, Philadelphia, PA.
- Kardong-Edgren, S., Scerbo, M.W., Nelson, D., O'Donnell, J., & Breikreuz, K. (Jan. 2019). Product usability testing in simulation: Tales from the field. The 19th International Meeting on Simulation in Healthcare, San Antonio, TX.
- Perry, K. & Scerbo, M.W. (2019). The Impact of Interruptions on Feature Changes within Dynamic Scenes. The 2019 Human Factors & Ergonomics Society Annual Meeting, Oct. 28-31, Seattle, WA.
- Scerbo, M.W., Lineberry, M., Sebok-Syer, S., & Calhoun, A.W. (Jan. 2020). Best Practices in Validity: A Primer for Simulation-Based Assessment. The 20th International Meeting on Simulation in Healthcare, San Diego, CA.
- Perry, K., Scerbo, M.W., & Powers, S. (2020). Investigating the Effects of Interruptions and Reliable Cueing on Change Detection within Dynamic Scenes. The 2020 Human Factors & Ergonomics Society Annual Meeting, Oct. 5-9, Virtual Conference.
- Armstrong, R.K., Waxman, K.T., Phrampus, P., Welch, L. & Scerbo, M.W. (2020). Opportunities Abound: The Application of Simulation in Healthcare. vI/ITSEC, Nov.30-Dec.4.
- Powers, S.A., Perry, K.N., Ashdown, A.J., Pacailler, M., & Scerbo, M.W. (2021). Human factors considerations for patients: A cursory review of telehealth guidelines. The 2021 Human Factors & Ergonomics Society Annual Meeting, Oct. 4-7, Baltimore, MD.
- Scerbo, M.W., Lineberry, M., Sebok-Syer, S., & Calhoun, A.W. (Jan. 2021). Best Practices in Validity: A Primer for Simulation-Based Assessment. The 21st International Meeting on Simulation in Healthcare, Virtua Conference.
- Scerbo, M.W., Perry, K., Rubino, M., Britton, B., Cole, M., & Wallace, A. (Jan. 2022). Reliability and consistency of standardized patient ratings Using the master interview eating scale: What do the measures mean? International Meeting on Simulation in Healthcare 2022, Jan. 15-19, Los Angeles, CA.
- Calhoun, A.W., Adler, M., & Scerbo, M.W. (Jan. 2022). Best Practices in Validity: Best Practices for Validity Frameworks. International Meeting on Simulation in Healthcare 2022, Jan. 15-19, Los Angeles, CA.
- Powers, S.A., & Scerbo, M.W. (2022). Examining the effects of interruption timing and frequency on performance: An update. The 2022 Human Factors & Ergonomics Society Annual Meeting, Oct. 10-14, Atlanta, GA.
- Perry, K.N., Pacailler, M., & Scerbo, M.W. (2022). The impact of natural visual interruptions and cueing on detecting changes in dynamic scenes. The 2022 Human Factors & Ergonomics Society Annual Meeting, Oct. 10-14, Atlanta, GA.

- Bailey, S.K.T., Hughes, A.M., Ray, J.M., Miller, G., Vora, S., & Scerbo, M.W. (2023). Human Factor's role in distance healthcare simulation. The 12th International Symposium on Human Factors and Ergonomics in Health Care, Mar. 26-29, Orlando, FL.
- Pacailier, M., Ashdown, A.J., Powers, S.A., Ball, R., Perry, K.N., & Scerbo, M.W. (2023). Live vs. video skill assessments in healthcare: Are the formats comparable? The 2023 Human Factors & Ergonomics Society Annual Meeting, Oct. 23-27, Washington, DC.

INVITED PANEL PARTICIPANT

- Adaptive Automation: Can it Work in Real Systems?* (2000, Oct.). The Fourth Conference on Human Performance, Situation Awareness, and Automation: User-centered design for the new millennium, Savannah, GA.
- Adaptive Automation: From Theory to Practice.* (2001, Oct.). The 45th Annual Meeting of the Human Factors & Ergonomics Society, Minneapolis, MN.
- HFES Student Career Session: Meet the Leaders in the Field.* (2005, Sep.). The 49th Annual Meeting of the Human Factors & Ergonomics Society, Minneapolis, MN.
- The Scholarship of Quality and Patient Safety.* (2009, Aug.). Eighth National Quality Colloquium on the Campus of Harvard University, Boston, MA.
- The Scholarship of Quality and Patient Safety.* (2010, Aug.). Ninth National Quality Colloquium on the Campus of Harvard University, Boston, MA.
- The Scholarship of Quality and Patient Safety.* (2013, Sept.). Twelfth National Quality Colloquium, Washington, DC.

INVITED PRESENTATIONS

- Scerbo, M.W. (1993, Feb.). Human factors in the 1990's: R.I.P. or renaissance? Presidential address, The First Mid-Atlantic Human Factors Conference, Virginia Beach, VA.
- Scerbo, M.W. (1998, Sept.). Adaptive automation: Working with computer teammates, the North Carolina State University Student Chapter of the Human Factors and Ergonomics Society, Raleigh, NC.
- Scerbo, M.W. (1999, Mar.). Adaptive automation: When your teammate isn't human, Dept. of Psychology, Georgia Tech. University, Atlanta, GA.
- Scerbo, M.W. (1999, Nov.). Human factors: What it teaches us about engineering, Dept. of Psychology, Texas Tech. University, Lubbock TX.
- Scerbo, M.W. (1999, Nov.). What's so boring about vigilance? Dept. of Psychology, Texas Tech. University, Lubbock TX.
- Scerbo, M. W. (2002, Oct.). The science of tarot cards: Frauds, cheats, scams, and pseudoscience. Old Dominion University Psi Chi and APS.
- Scerbo, M. W. (2004, Apr.). The role of experimental psychology in high technology. Southern Society for Philosophy and Psychology, New Orleans, LA.

- Scerbo, M. W., Bliss, J. P., Freeman, F.G., & Mikulka, P.J. (2004, Jul.). Measuring task related and unrelated thoughts. The Potomac Institute for Policy Studies, Fairfax, VA.
- Scerbo, M.W. (2005, Nov.). Medical simulators and the need for human factors. Carolina Chapter of the Human Factors and Ergonomics Society, Cary, NC.
- Scerbo, M.W. (2006, Feb.). The future of medical simulation and the need for human factors. National Academy of Sciences Committee on Human Factors, Washington, D.C.
- Scerbo, M.W. (2006, May). Science and medical Simulation. Third Annual Advanced Initiatives in Medical Simulation Meeting. Washington, D.C.
- Scerbo, M.W. (2006, June). Enhancing simulation-based training in medicine through virtual environments. Fourth Annual Safar Symposium. Pittsburgh, PA.
- Scerbo, M. W. (2006, Sept.). The role of medical simulation in training and patient safety. Newport News Medical Society. Newport News, VA.
- Scerbo, M. W. (2006, Oct.). The role of human factors in medical simulation and patient safety (and errors). The *Human Factors in Healthcare: Practical Applications to Improve Patient Safety* Course, The Mayo Clinic, Rochester, MN.
- Scerbo, M. W. (2006, Nov.). The Future of Medical Simulation and the Need for Human Factors. Presentation for the *Forum on Research in Science and Technology Education: Accelerating U.S. Competitiveness*, sponsored by the Federation of Behavioral, Psychological, and Cognitive Sciences and the Human Factors and Ergonomics Society, Washington, DC.
- Scerbo, M.W. (2007, Nov.). Developments in medical modeling and simulation. Department of System Engineering, UVA. Charlottesville, VA.
- Scerbo, M.W. (2008, Apr.). Virtual environments in medical modeling and simulation. U.S. Navy, Naval Research Laboratory, Washington, D.C.
- Scerbo, M.W. (2008, Jun.). Some thoughts on assessing surgical skills. The 5th Innovations in the Surgical Environment Conference. Baltimore, MD.
- Scerbo, M.W. (2009, Apr.). The role of human factors and the future of surgical simulation. The Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting. Phoenix, AZ.
- Scerbo, M. W. (2010, Jun.). A human factors perspective on medical simulation and standardized patients. Plenary Presentation: The 9th Annual Association of Standardized Patient Educators Conference, Baltimore, MD.
- Scerbo, M.W. (2010, Nov.). Simulation-based training in healthcare and the need for human factors. Dept. of Industrial Ergonomics, Clemson University, Clemson, SC.
- Scerbo, M.W. (2012, Jan.). Human Factors and Simulation: Limiting Iatrogenic Harm. The Michael Gordon Plenary Presentation: The 12th International Meeting on Simulation in Healthcare, San Diego, CA.
- Scerbo, M.W. (2012, Aug.). The importance of human factors psychology in healthcare simulation. Presidential Program – Case Study: Human Factors Psychology. The 120th Annual Convention of the American

Psychological Association, Orlando, FL.

Scerbo, M.W. (2015, June). Human factors applications in healthcare simulation. 2015 GoSIMple Conference, Lillington, NC.

Scerbo, M.W. (2015, Sep.). Some Human Factors Considerations for Surgery. The Wilson Lecture, Department of Surgery, George Washington University, Washington DC.

Scerbo, M.W. (2017, May). Human Factors and Simulation Methods in Emergency Medicine. Society for Academic Emergency Medicine SAEM17, Orlando, FL.

Scerbo, M.W. (2019, Jan.). Keeping children out of the ER: Where simulation (and a little human factors) can help. The Annual Meeting of the International Network for Simulation-based Pediatric Innovation, Research, and Education (INSPIRE). San Antonio, TX.

Scerbo, M. W. (2023). Human Factors and Healthcare Simulation: Help Wanted. Titans of HFE Symposium, Feb. 13-14, 2023.

Scerbo, M.W. (2023). Scholarship in healthcare simulation: An editor's perspective. The 20th Annual Safar Symposium. May 18-19, 2023, Pittsburgh, PA.

TECHNICAL PANEL PARTICIPATION

The 2009 Healthcare Team Coordination Program's (HCTCP) Technical Expert Panel. Washington, D.C., May, 2009.

Simulation Expert Meeting, Society of Interventional Radiology, May, 2009.

Society for Simulation in Healthcare Annual Healthcare Distance Simulation Summit 2022

GRANTS AND AWARDS

Scerbo, M.W. (PI). The effects of subject-controlled pacing and signal-type upon sustained attention and subjective workload, Research and Graduate Studies Summer Faculty Research Fellowship, Old Dominion University, 1991, \$3000.

Scerbo, M.W. (PI). The Experimental Psychology Laboratory, Office of the Provost and Vice President for Academic Affairs Faculty Development Award, Old Dominion University, 1992, \$3000.

Freeman, F. (PI) & Scerbo, M.W. (Co-PI). Functional relationships among monitoring performance: Subjective report of thought processes and compromising states of awareness, NASA, 1993, \$12,095.

Navy-ASEE Summer Faculty Research Program, Naval Air Warfare Center, Warminster, PA, 1993, \$13,500.

Scerbo, M.W. (PI), & Freeman, F.G. (Co-PI). Functional relationships among monitoring performance: subjective report of thought processes and compromising states of awareness - addendum, NASA, 1994, \$21,112.

Navy-ASEE Summer Faculty Research Program, Naval Air Warfare Center, Warminster, PA, 1994, \$14,000.

Freeman, F. (PI) & Scerbo, M.W. (Co-PI). Functional relationships among monitoring performance: Subjective report of thought process and compromising states of awareness, NASA, 1994, \$21,000.

- Scerbo, M.W. (PI). The role of event asynchrony and attentional deficits on task-related thoughts in vigilance: Implications for workload and boredom proneness, Gerontology Research Center, National Institute on Aging, 1994, \$400.
- Jacobs, D.A. (PI), Scerbo, M.W. (Co-PI), & Freeman, F.G. (Co-PI). Investigating the impact of automation: Analysis using artificial neural networks as vigilance and performance predictors, NASA, 1995, \$15,000.
- Scerbo, M.W. (PI). Validation of the Spatial-Temporal Awareness Task. Naval Air Warfare Center - Aircraft Division, 1994, \$10,000.
- Freeman, F. (PI) & Scerbo, M.W. (Co-PI). Functional relationships among monitoring performance: Subjective report of thought process and compromising states of awareness - addendum, NASA, 1995, \$21,000.
- Freeman, F. (PI) & Scerbo, M.W. (Co-PI). Functional relationships among monitoring performance: Subjective report of thought process and compromising states of awareness - addendum, NASA, 1996, \$23,393.
- Scerbo, M.W. (PI). The theater of perception. Old Dominion University Faculty Innovator Grant, \$6,000, 1996.
- Scerbo, M.W. (PI). Personnel and human factors issues in Naval Air Mishaps. U.S. Naval Safety Center, \$10,000, 1996.
- Scerbo, M.W. (PI). A detailed examination of human performance related to automation technology. NASA, 1997, \$26,404.
- Freeman, F.G. (PI), Scerbo, M.W., & Mikulka, P.J. (Co-PIs) A biocybernetic system in a closed-loop, adaptive automation-based environment. NASA, 1997, \$30,051.
- Scerbo, M.W. (PI). Third international conference on automation technology and human performance, Office of Naval Research, 1997, \$15,908.
- Scerbo, M.W. (PI), Freeman, F.G., & Mikulka, P.J. (Co-PIs). Measures and countermeasures of hazardous states of awareness. NASA, 1997, \$104,971.
- Scerbo, M.W. (PI). Further validation of the biocybernetic model of adaptive automation: Comparison to a performance model, and effects of automation cycles. NASA, 1997, \$22,000.
- Freeman, F.G., (PI) Scerbo, M.W., & Mikulka, P.J. (Co-PIs). Biocybernetic control of vigilance task parameters. NASA, 1998-1999, \$50,000.
- Scerbo, M.W. (PI). Electrocortical correlates of task-unrelated thoughts during mentally fatigued states. NASA, 1999, \$22,000.
- Scerbo, M.W. (PI), Freeman, F.G., & Mikulka, P.J. (Co-PIs). External validity considerations of a biocybernetic system for adaptive automation. NASA, 1999-2000, \$16,213.
- Freeman, F.G., (PI) Scerbo, M.W., & Mikulka, P.J. (Co-PIs). Psychophysiological control of cognitive task using adaptive automation. NASA, 1999-2002, \$31,530.
- Dickinson, T.L. (PI), Mikulka, P.J., Freeman, F.G., & Scerbo, M.W. (Co-PIs). User acceptability of physiological and other measures of hazardous states of awareness. NASA, 1999-2000, \$29,180.

- Scerbo, M.W. (PI), Freeman, F.G., & Mikulka, P.J. (Co-PIs). Toward a model of adaptive technology: The efficacy of physiological measures. NASA, 2000, \$39,922.
- Freeman, F.G. (PI), Scerbo, M.W., & Mikulka, P.J. (Co-PIs). Evaluating the ability of heart rate and EEG to control alertness during performance. NASA, (2000-2001), \$70,894.
- Scerbo, M.W. (PI). Assessing Eye Movement in a Synthetic Vision Environment. NASA, 2000-2001, \$22,000.
- Scerbo, M.W. (PI). The effects of aviation weather information systems on general aviation pilots' workload. NASA, 2000-2001, \$22,000.
- McNamara, D.S. (PI), Scerbo, M.W. & Baldwin, C. L. (Co-PIs). Data-link aircraft communications: An examination of interference, coherence, and workload. NASA, 2001-2005, \$364,145.
- Loftin, R.B. (PI), McKenzie, F., Scerbo, M.W. (Co-PIs). Developing virtual environments for training, ONR, 2001-2002, \$1,858,108.
- Scerbo, M.W. (PI), The effects of aviation weather information systems on a pilot's workload, NASA, 2001-2002, \$22,000.
- Scerbo, M.W. (PI), Using automatic speech recognition to control general aviation cockpit-based weather information systems, NASA, 2001-2002, \$22,000.
- Scerbo, M.W. (PI), Presence and absence of features in aviation displays, NASA, 2001-2002, \$22,000.
- Scerbo, M.W. (PI), Freeman, F.G., & Mikulka, P.J. (Co-PIs). Adaptive technology as a countermeasure for complacency, NASA, 2001-2002, \$91,000.
- McNamara, D.S. (PI), Scerbo, M.W., & Baldwin, C. L. (Co-PIs). Data-link aircraft communications: An examination of interference, coherence, and workload. Supplement. NASA, 2002, \$19,999.
- Loftin, R.B., Combs, C.D., (PIs), Bliss, J.P., Scerbo, M.W., & Weireter, L. J. (Co-PIs). National center for collaboration in medical modeling and simulation. U.S. Army Medical Research and Material Command, 2002-2004, \$170,000.
- Freeman, F.G. (PI), Baldwin, C.L., Scerbo, M.W., & Mikulka, P.J. (Co-PIs). Neurophysiological and behavioral indices of mental workload as a function of traffic density and visibility, NASA, 2003, \$20,000.
- Scerbo, M.W. (PI), The efficacy of near infra-red spectroscopy for studying mental workload in an aviation context, NASA, 2003, \$24,000.
- Loftin, R.B., (PI), Scerbo, M.W., Belfore, L., & McKenzie, R. (CoPIs). National center for collaboration in medical modeling and simulation. (Phase I). EVMS/GEOCENTERS, 2003, \$299,555.
- Loftin, R.B., (PI), Scerbo, M.W., Belfore, L. A., McKenzie, R. & Bliss, J. P. (Co-PIs). National center for collaboration in medical modeling and simulation. (Phase II). EVMS/NAVAIR, 2003-2004, \$600,000.
- Freeman, F. G., (PI), Scerbo, M. W., Baldwin, C. L., & Mikulka, P. J. Evaluation of NIRS as an assessment of brain activity related to different levels of workload in a vigilance task, NASA, 2004, \$60,325.

- Scerbo, M. W., (PI), Bliss, J. P., Freeman, F.G., & Mikulka, P.J. (Co-PIs). Measuring task related and unrelated thought processes, Office of Naval Research, 2004, \$36,000.
- Loftin, R.B., (PI), Scerbo, M.W., Belfore, L. A., McKenzie, R. & Bliss, J. P. (Co-PIs). National center for collaboration in medical modeling and simulation. (Phase III). EVMS/ONR, 2004-2005, \$675,000
- Scerbo, M.W. (PI), Belfore, L.A., Garcia, H.M., Jackson, M., & Weireter, L.J. The virtual operating room. Old Dominion University Research Foundation. 2005, \$95,000.
- Hood, A.F., (PI) Hubbard, T.W., Scerbo, M.W., & Gliva-McConvey, G. External validation of resident evaluation using stealth standardized patients. Association of Standardized Patient Educators, 2006, \$2,000.
- Scerbo, M.W. (PI). Virtual Reality Chainsaw Safety Training System. EVMS/ONR, 2006, \$24,500.
- Scerbo, M.W. (PI), Belfore, L.A., McKenzie, F.D., Modeling and Simulation Solutions for Advanced Surgical Skills, Augmented Patient Technologies, and Labor and Delivery, EVMS, 2006-2010, \$1,399,943.
- Scerbo, M.W. (PI). SOSTS Vision/Haptic evaluation. SimQuest, LLC., 2007-2008, \$20,999.
- Noor, A.K. (PI), Scerbo, M.W. Prototype of a DGBL module to augment aerospace systems and design engineering course using serious gaming and advanced display technology. National Institute of Aerospace, 2007-2008, \$53,000.
- Sokolowski, J. (PI), Scerbo, M.W., Diaz, R., Ringleb, S., et al. HRP Tech Cluster Accelerator. Hampton Roads Partnership, 2007-2008, \$100,000.
- Scerbo, M.W. (PI). Applying Automaticity Theory to Simulator Training to Enhance Operative Performance. (Association for Surgical Education through Carolinas Medical Center), 2007-2008, \$2,500.
- Scerbo, M.W. (PI). Craniotomy Burr Hole Drilling Simulator Evaluation. SimQuest, LLC., 2008-2009, \$25,320.
- Scerbo, M.W. (PI), & McKenzie, F.D. Modeling and Simulation Solutions for Standardized Patients: Selection, Refinement, and Augmentation. EVMS, 2009-2010, \$130,000.
- McKenzie, R. (PI), Scerbo, M.W., & Colberg-Ochs, S. Health iManage (HIM): Incentivized Type 2 Diabetes Management Using i-Phone Technology. ODU Research Foundation, 2009, \$26,962.
- Scerbo, M. W. (PI). Evaluation of Simulation Training on Hospital Team Performance. TRICARE Management Activity/Axiom Resource Management, Inc., 2009-present, \$15,152.
- Scerbo, M.W. (PI). Suturing Simulator Evaluation. SimQuest, LLC., 2010-2012, \$22,346.
- Parodi, A. (PI), Diallo, S., Scerbo, M.W., & Papelis, Y. LIVES and SIM Lab (Laboratory of Investigation, Validation and Verification of Emerging Simulators). EVMS, 2012. \$50,000.
- Scerbo, M.W. (PI). Standardized Patients: Selection Refinement, Cognitive Challenges, and Expanded Roles. EVMS, 2010 - 2015, \$222,009.
- Papelis, Y. (PI), Scerbo, M.W., & Garcia, H.M. Virtual Operating Room. ODU, 2012-2014, \$55,875.

- Scerbo, M.W. (PI), Britt, R., & Stefanidis, D. A Secondary Task for Measuring Laparoscopic Skill. NIH: Agency for Healthcare Research and Quality, 2011 –2014, \$656,873.
- Scerbo, M.W. (PI). Modeling Professional Attitudes and Teaching Humanistic Communication in VR (M-Pathic VR). Medical Cyberworlds, Inc./NIH: National Center for Advancing Translational Science, 2012-2015, \$249,451.
- Sokolowski, J. (PI), Papelis, Y., Scerbo, M.W., & Garcia, H.M. Virtual Operating Room. VMASC/ODU, 2015-present, \$50,000.
- Cigularov, K., & Scerbo, M.W. Training Needs Assessment and Evaluation of Residents and Chief Residents at EVMS. EVMS, 2016 - 2018, \$74,757.
- Scerbo, M. W. (PI). Sentara Healthcare Telemetry Evaluation project. \$24,000.
- Scerbo, M.W. (PI). Sentara Center for Simulation and Immersive Learning, EVMS, 2018-present, \$285,000.
- Kron, F.W., (PI), Watson-Papelis, G., Scerbo, M.W. (Co-Is). MPathic-IP: Modeling Professional Attitudes and Teaching Humanistic Communication to Remedy Implicit Bias and Promote Cultural Humility in Healthcare (MPathic-IBCH). (2022-present). NIH \$2,389,789/ODU \$329,127.
- Kron, F.W., (PI), Watson-Papelis, G., Scerbo, M.W. (Co-Is). MPathic-IP: Modeling Professional Attitudes and Teaching Humanistic Communication to Remedy Implicit Bias and Promote Cultural Humility in Healthcare (MPathic-IBCH). (2022-present) Supplemental increment NIH \$7,862.
- Kron, F.W., (PI), Scerbo, M.W. (Co-PI). MPathic-IP: Modeling Professional Attitudes and Teaching Humanistic Communication to Remedy Implicit Bias and Promote Cultural Humility in Healthcare (MPathic-IBCH). (2022-present) Supplemental increment NIH \$15,000.

WORKSHOPS

- Scerbo, M. W. (1989). *The usability engineering workshop*. AT&T Design Centers, Somerset, NJ; White Plains, NY; Cincinnati, OH; Kansas City, MO; Orlando, FL.
- Weimer, J., & Scerbo, M. W. (1993). *Effective Computer Display Design*. Presented at the he 37th Annual Meeting of the Human Factors & Ergonomics Society, Seattle, WA.
- Scerbo, M.W. & Seagull, F. J. (2009). Methods for measuring skill and task difficulty: An introduction to human factors and workload assessment. The 9th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M.W., Cooper, J., Gaba, D.M., et al. (Jan. 2010). *Simulation in Healthcare* workshop for reviewers (and authors). The 10th International Meeting on Simulation in Healthcare, Phoenix, AZ.
- Dieckmann, P., Curran, I., Howard, S.K., Ikegami, K., & Scerbo, M.W. (Jan. 2010). Advanced scenario design: Context, realism, and unrealism in simulation. The 10th International Meeting on Simulation in Healthcare, Phoenix, AZ.
- Dieckmann, P., Curran, I., Rettedal, A., Ikegami, K., & Scerbo, M.W. (Jan. 2011). Advanced simulation: Context, realism, and unrealism in simulation. The 11th International Meeting on Simulation in Healthcare, New Orleans, LA.

- Scerbo, M.W., Cooper, J., Gaba, D.M., et al. (Jan., 2011). *Simulation in Healthcare* workshop for reviewers (and authors). The 11th International Meeting on Simulation in Healthcare, New Orleans, LA.
- Scerbo, M.W., Cooper, J., Gaba, D.M., et al. (Jan., 2013). *Simulation in Healthcare* workshop for authors and reviewers. The 13th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M.W., Cooper, J., Gaba, D.M., et al. (Jan., 2014). *Simulation in Healthcare* workshop for reviewers. The 14th International Meeting on Simulation in Healthcare, San Francisco, CA.
- Scerbo, M.W., Cooper, J., Gaba, D.M., et al. (Jan., 2014). *Simulation in Healthcare* workshop for authors. The 14th International Meeting on Simulation in Healthcare, San Francisco, CA.
- Scerbo, M.W. (Jan., 2014). Experimental Research and Design: The Next Level. The 14th International Meeting on Simulation in Healthcare, San Francisco, CA.
- Scerbo, M.W. (Jan., 2015). Experimental Research and Design: The Next Level. The 15th International Meeting on Simulation in Healthcare, New Orleans, LA.
- Scerbo, M.W., Cooper, J., Gaba, D.M., et al. (Jan., 2015). *Simulation in Healthcare* workshop for authors. The 15th International Meeting on Simulation in Healthcare, San Francisco, CA.
- Scerbo, M.W., Stefanidis, D. & Turner, T.R. (Jan., 2015). Measuring Mental Workload. The 15th International Meeting on Simulation in Healthcare, San Francisco, CA.
- Mielke, R., Sokolowski, J., & Scerbo, M.W. (May 2016). Modeling & Simulation Workshop. DoD-HFE-TAG Meeting, Hampton, VA.
- Scerbo, M.W., Gaba, D.M., Cooper, J., et al. (Jan., 2017). *Simulation in Healthcare* workshop for authors. The 17th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M.W., Gaba, D.M., Cooper, J., et al. (Jan. 2017). *Simulation in Healthcare* workshop for reviewers. The 17th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M.W., & Gilbert, G.E. (Jan. 2017). Intermediate Experimental Research and Design. The 17th International Meeting on Simulation in Healthcare, Orlando, FL.
- Muret-Wagstaff, S., Scerbo, M.W., Cooper, J., et al. (Jan. 2018). *Simulation in Healthcare* workshop for reviewers. The 17th International Meeting on Simulation in Healthcare, Orlando, FL.
- Scerbo, M.W., Calhoun, A., & McGaghie, W. (Jan. 2018). Writing better manuscripts. The 18th International Meeting on Simulation in Healthcare, Los Angeles, CA.
- Muret-Wagstaff, S., Scerbo, M.W., Cooper, J., et al. (Jan. 2019). *Simulation in Healthcare* workshop for reviewers. The 19th International Meeting on Simulation in Healthcare, San Antonio, TX.
- Scerbo, M.W., & Gilbert, G.E. (Jan. 2019). Quasi experimental research designs. The 19th International Meeting on Simulation in Healthcare, San Antonio, TX.
- Scerbo, M.W., Calhoun, A., & McGaghie, W. (Jan. 2019). Turning your research into a publishable manuscript. The 19th International Meeting on Simulation in Healthcare, San Antonio, TX.

- Scerbo, M.W. (Jan. 2020). Quasi experimental research designs. The 20th International Meeting on Simulation in Healthcare, San Diego, CA.
- Muret-Wagstaff, S., Scerbo, M.W., Cooper, J., et al. (Jan. 2020). Simulation in Healthcare workshop for reviewers. The 20th International Meeting on Simulation in Healthcare, San Diego, CA.
- Scerbo, M. W. (Dec. 2020). Writing Better Research Manuscripts and Peer Review. Simulation in the United States. Virtual presentation for Ningxia Medical University.
- Muret-Wagstaff, S., Scerbo, M.W., Cooper, J., et al. (Mar. 2021). Simulation in Healthcare workshop for reviewers. Virtual presentation for the 21st International Meeting on Simulation in Healthcare.
- Muret-Wagstaff, S., Scerbo, M.W., Cooper, J., et al. (Jan. 2022). Simulation in Healthcare workshop for peer reviewers. International Meeting on Simulation in Healthcare 2022, Los Angeles, CA.
- Scerbo, M.W., Calhoun, A., & McGaghie, W. (Jan. 2022). Writing Manuscripts for Journal Publication. International Meeting on Simulation in Healthcare 2022, Los Angeles, CA.
- Muret-Wagstaff, S., Scerbo, M.W., Cooper, J., et al. (Jan. 2023). SSH Presents: Simulation in Healthcare workshop for peer reviewers. International Meeting on Simulation in Healthcare 2023, Orlando, FL.
- Scerbo, M.W., & Calhoun, A. (Jan. 2023). Best practices in validity: A primer for simulation-based assessment. International Meeting on Simulation in Healthcare 2023, Orlando, FL.
- Scerbo, M.W., Calhoun, A., & McGaghie, W. (Jan. 2023). Writing Better Manuscripts for Journal Publication. International Meeting on Simulation in Healthcare 2023, Orlando, FL.

WEBINARS

- Hui, J., & Scerbo, M.W. (Dec. 12, 2012). Guidelines for simulation-based research in healthcare. Society for Simulation in Healthcare.
- Scerbo, M.W. (Apr. 5, 2013). Human factors and healthcare simulation. Texas Tech. HFES Student Chapter.
- Scerbo, M.W. (Oct. 4, 2017). Ideas for writing better manuscripts. Carolinas Healthcare System.

CREATIVE WORKS

- 1992 Experimental Psychology Laboratory
 1996 The Theater of Perception CDROM
 1999 A Virtual Tour of WOMENTEK at the Peninsula Fine Arts Center CDROM

CONSULTING ACTIVITIES

- Scerbo (1997). Expert opinion, Henry Williams v. Gradall Company, Civil Action No. 2:97-cv-614, File No. 5115.001
- Scerbo, M. W. (2002). The effects of color on the game of tennis. The United States Tennis Association.

Scerbo, M. W. & Thompson, S. N. (2002). The aesthetics of color. The United States Tennis Association.
 Scerbo, M. W., Perry, K., Pacailler, M., & Powers, S.M. (2021). *An Examination of the Sentara Telemetry Monitoring System*. Project Report delivered to Sentara Healthcare.

HONORS

Member, Sigma Xi, National Honorary Society in Research, elected in 1986
 Richard M. Griffith Memorial Award for best paper in Psychology, Annual Meeting of the Southern Society for Philosophy and Psychology, 1988
 AT&T Spot Award for developing the Usability Engineering Workshop, 1989
 Human Performance, Situation Awareness and Automation Conference Distinguished Service Award, 2004
 Fellow of the Human Factors and Ergonomics Society, 2004
 Best Technology Abstract, 2nd Place, The 9th International Meeting on Simulation in Healthcare, Orlando, FL., 2009.
 Paper of Distinction, Association for Surgical Education annual meeting, San Antonio, TX, 2010.
 Best Research Abstract, 4th place, The 12th International Meeting on Simulation in Healthcare, San Diego, CA, 2012.
 Best Program Innovation Abstract, 2nd place, The 12th International Meeting on Simulation in Healthcare, San Diego, CA, 2012.
 Best Research Abstract, 2nd place, The 13th International Meeting on Simulation in Healthcare, San Diego, CA, 2013.
 Fellow of the Society for Simulation in Healthcare, 2016.
 Named at Titan of the Human Factors & Ergonomics Society, 2023.

MEMBERSHIP IN ORGANIZATIONS

Human Factors & Ergonomics Society
 Aerospace Technical Group
 Cognitive Engineering and Decision Making Technical Group
 Computer Systems Technical Group
 Education Technical Group
 Health Systems Technical Group
 Perception & Performance Technical Group
 Training Technical Group
 Virtual Environments Technical Group
 Tidewater Chapter of the Human Factors & Ergonomics Society
 American Psychological Association
 Division 21 – Applied Experimental and Engineering Psychology
 Southern Society for Philosophy and Psychology
 Sigma Xi
 Society for Simulation in Healthcare
 Science and Reason in Hampton Roads

DEPARTMENTAL SERVICE

1990-1992	Faculty/graduate student seminar series, coordinator
1994	I/O Psychology Day, Chair
1997	Tenure and promotion committee for D. Major, Chair
1997-1998	Human Factors position search committee, Chair

1997-1998	Faculty affairs committee, Member
1998-1999	Human Factors strategic planning subcommittee, Chair
2000	Tenure and promotion committee for D.S. McNamara, Chair
1992-2001	Student Human Factors Chapter, Faculty Advisor
2000-2001	Human factors position search committee, Chair
2000-2002	Graduate Program Director, I/O Psychology program
2003	I/O Psychology Program student recruitment, Chair
2004-2005	Graduate Program Director, Human Factors Psychology program
2005	HF cognitive position search committee, Chair
2005-2006	Colloquium Committee, Member
2006	Building Space Committee, Member
2008-2009	Human Factors Search Committee (Member)
2008-2009	Perry Chair Search Committee (Member)
2009	I/O Search Committee (Member)
2012	Psychology Chair Search Committee (Member)
2013	Human Factors Search Committee (Member)
2014-2015	Human Factors Search Committee (Member)
2013-2015	Faculty Affairs Committee (Member)
2015	Human Factors Search Committee (Chair)
2017-2018	Health and Wellbeing Search Committee (Member)
2019	Psychology Chair Search Committee (Member)
2018-2019	Psychology Lecturer Search Committee (Member)
2019-2020	I/O Search Committee (Member)
2019-2021	Human Factors Search Committee (Chair)
2022	Department's Promotion Standards for Lecturers task force (member).
2022-2023	Human Factors Search Committee (Chair)
2019-present	Associate Chair
2015-present	Psychology Department Ombudsman
2000-present	Human Factors Committee (Member)
2016-present	Human Factors Psychology M&S Certificate Program (Chair)
2020-present	Tenured Faculty Committee (Chair)

UNIVERSITY SERVICE

1993-1994	ODU Institutional Review Board, Chair
1994	Committee for the Center for Learning Technologies, member
1998-1999	Modeling and simulation faculty search committee, member
1999-2000	Modeling and simulation faculty search committee, member
1999-2000	Investigating modern pseudo-science lecture series, member
1997-2005	Interdisciplinary committee for the ODU simulation sciences program, member
2004-2006	Department representative to the College of Sciences Tenure and Promotion Committee
2005-2006	College of Health Sciences Search Committee, member
2006-2007	Human factors MS&V position search committee, Chair
2006	VMASC Director of Research search committee, member
2007-2009	Co-chair ODU/VMASC medical M&S cluster
2010	College of Health Sciences Dean Search Committee, member
2010-2012	College of Sciences Promotion and Tenure Committee, member
2007-2013	Modeling & Simulation Steering Committee, member
2014	Interdisciplinary Initiative Administrator Search Committee, member
2014-2018	Modeling & Simulation Steering Committee, Chair

2016-2019	College of Sciences Promotion and Tenure Committee, member
2018-present	Modeling & Simulation Steering Committee, Member

PROFESSIONAL SERVICE ACTIVITIES

1989	President, New York Area Skeptics
1990	Program Chair, (Psychology) Southern Society for Philosophy and Psychology
1990-1993	Member, Executive Council, Southern Society for Philosophy and Psychology
1991	Program Chair, Tidewater Chapter of the Human Factors Society
1993	President, (Elected), Tidewater Chapter of the Human Factors Society
1993	Program Chair, The First Mid-Atlantic Human Factors Conference
1988-1993	Member, Publications Committee, Human Factors Society
1992-2000	Member, Executive Council, Tidewater Human Factors Society
1995	Local Arrangements Chair (Appointed), Southern Society for Philosophy and Psychology
1996	Program Co-chair (Appointed), Visual Performance TG, the Human Factors & Ergonomics Society
1997	Program Chair (Appointed), Visual Performance TG, the Human Factors & Ergonomics Society
1998-1999	Chair, (Elected) Visual Performance Technical Group of HFES
1996-1998	Chair (Appointed), HFES Membership Growth and Retention Committee
1998	Program Chair, The 3 rd Conference on Automation Technology and Human Performance
1999-2000	Special Session Chair (Appointed), HFES Annual Meeting Program Committee
2000	Chair (Appointed), HFES Awards Committee
2001-2002	HFES Annual Meeting Policy Committee, member
2001-2003	Chair (appointed), HFES Annual Meeting Technical Program Committee
2003-2004	Member, Scientific Committee of the Second Conference on Human Performance, Situation Awareness, and Automation
2004-2005	Member, Scientific Committee of the First International Conference on Augmented Cognition
2004-2006	Chair (appointed), HFES Annual Meeting Policy Committee
2005-2012	Member, Society for Interventional Radiology Simulation Task Force
2006	Member, IEEE International Symposium on Computer-Based Medical Systems Review Panel
2006-2007	Co-Chair (appointed), MODSIM WORLD 2007, Medical Track
2011	External Examiner, Itsik Nadler – Doctoral Candidate, University of Queensland, Australia.
2011-2012	Member, HFES Jerome Ely Award for Best Journal Article
2012 – 2014	Vice Chair, Society for Simulation in Healthcare, Research and Scientific Contents Committee
2013	Member, Society for Simulation in Healthcare, Nominations Committee
2013 – 2014	Track Co-Chair, Patient Safety Track, 2014 Human Factors and Ergonomics Society Healthcare Symposium.
2014	Chair, Society for Simulation in Healthcare 2015 Research Grant Committee
2014	Member, Society for Simulation in Healthcare Publications Committee
2007-2015	Member, Society for Simulation in Healthcare Research Committee
2015	Member, Society for Simulation in Healthcare Journal Renewal Task Force
2015 - 2016	CoChair, Society for Simulation in Healthcare Research Committee
2013 – 2019	Member, American College of Surgeons Committee on Validation and Verification of Surgical Knowledge and Skills
2019-2020	Member, American Heart Association, Education Science and Programs Task Force
2020 – 2021	Member, Society for Simulation in Healthcare STORM editor-in-chief selection committee.
2022 – 2023	Member, Society for Simulation in Healthcare Distance Education Task force.
2011 - present	Member, EVMS Center for Surgical Education Advisory Board
2014 – present	Member, Sentara Center for Simulation and Immersive Learning Advisory Committee
2017 – present	Member, Society for Simulation in Healthcare Fellows Academy Scholarship Committee.
2022 – present	Member, HFES Liaisons and Representatives Committee, member

EDITORIAL/REVIEWING ACTIVITIES

Editor-in-Chief

Simulation in Healthcare (2016-present)

Assoc. Editor:

Simulation in Healthcare (2009-2016)

Human Factors (2011-2016)

Editorial Board:

Human Factors, (2000-2011)

Simulation in Healthcare (2008-2009)

Development editor:

Ergonomics in Design, (1999-2004)

Ad Hoc Reviewer:

Human Factors

Simulation in Healthcare FIRES

Transportation Research Part F: Traffic Psychology and Behaviour

Journal of Continuing Education in the Health Professions

American Psychologist

BMJ Quality & Safety

IEEE Transactions on Information Technology in Biomedicine

Journal of the American College of Surgeons

Applied Ergonomics

Simulation in HealthCare

Ergonomics in Design

Journal of Experimental Psychology: Applied

Perceptual & Motor Skills

Theoretical Issue in Ergonomics Science

Acta Psychologica

Cognitive Engineering and Decision Making

British Journal of Psychology

Human Factors and Ergonomics Society Publishing

International Thompson Publishing

Lawrence Erlbaum Associates

Wadsworth Publishing Company

Morgan Kaufmann Publishers

Shaker Publishing

COURSES TAUGHT

Patient Safety and Healthcare (Graduate)

Virtual and Synthetic Environments and Applications (Graduate), Perception lectures

Human-Computer Interaction (Graduate)

Human Factors Methods and Techniques (Graduate)

Advanced Seminar in Human Factors (Graduate)

Perception in Real and Virtual Environments (Graduate)

Perception (Graduate & Undergraduate levels)

Human Factors Psychology (Graduate & Undergraduate levels)
 Investigating Modern Pseudoscience (undergraduate), spring 2000
 Advanced Cognition (Graduate)
 I/O Psychology Topics Seminar (Graduate) spring '94
 Quantitative Methods (Undergraduate)
 Experimental Methods (Undergraduate)
 Introduction to Computers (Undergraduate)
 A Practicum in Thinking (Undergraduate)
 Introductory Psychology (Undergraduate)

Graduate Individual Readings Seminars

1992 Cognitive Effort - Birgit Kapp
 Design of Warnings & Displays - Catherine Greenwald Mergen
 1995 Adaptive Automation - David A. Sawin
 Mental Models - Glenn Grasso
 2001 Haptic Interfaces - Rob King
 2003 Adaptive Automation and Complacency – Nathan Bailey
 Task Interference and ATC-Pilot Communications – Matt Risser

EXTERNAL MENTORING

Dr. Timothy Guetterman, Univ. of Michigan. (Advisor). Enhancing Nonverbal Communication Technology. National Library of Medicine K01 in Biomedical Informatics and Data Science, (2018-2024).
 Geoffrey Miller, Eastern Virginia Medical School (Member). Clinical assessment of student registered nurse anesthetists: Impact on self-assessment accuracy. (2022-present)
 Christopher W. Allen, Eastern Virginia Medical School (Member). The impact of real-time ultrasound-guided lumbar puncture simulation training on advanced practice practitioner fellow competency and self-efficacy. (2023-present).

DISSERTATION COMMITTEES

Ann Fulop - (Member) A comparison of alphanumeric, direct manipulation graphic, and equivalent interface design for a production scheduling task, (1992).
 Jeffrey Sinn - (Chair) Fostering the development of domain-general, nonlinear mental models: A foundation for systemic thinking, (1997).
 Cristina Bubb-Lewis - (Chair) Communication patterns and adaptive technology, (1997).
 David A. Glover - (Member) Significance of human factors variables in battle outcome prediction models (1998).
 Lawrence Prinzel - (Member) ERPs and EEG in a biocybernetic system (1998).
 Michael F. Cochrane – (Member) The effect of model formation on the comparative performance of artificial neural networks and regression (2000).
 Alexis Fink – (Member) Toward a Model of Team Situation Awareness (2000).
 Todd M. Eischeid - (Chair) Perceptual cues and subjective organization in a virtual information workspace (2001).
 Jean M. Catanzaro – (Chair) An examination of personality as a predictor of guard behavior in a virtual environment (2003).
 Nathan R. Bailey – (Chair) The effects of operator trust, complacency potential, and task complexity on monitoring a highly reliable system (2004).
 Matthew R. Risser – (Chair) Acknowledgment response and interference timing during the processing of voice and datalink commands (2004).
 Robert King – (Member) Twisting the view to facilitate spatial awareness (2004-2005).

- Hope Hanner-Bailey – (Chair) Understanding the nature of surgical excellence using a competency modeling approach (2006).
- Austin Stoudenmire - (Member) Functional near infrared detection of real and imagined finger taps using support vector machine, linear discriminant analysis, and decision tree classification methods (2009-2013)
- Elizabeth Newlin-Canzone – (Chair) Workload and attention in standardized patients (2011).
- T. Robert Turner – (Chair) The effects of serial position, evaluation format, and behavioral isolate on verbal and nonverbal clinical cue recognition and performance ratings (2009-2013).
- Erik Prytz – (Chair) Workload transitions and stress: Changes over time (2013-2014).
- Brittany L. Anderson-Montoya - (Chair) The effects of mental models and expertise on running memory and clinical handoff effectiveness (2011-2014).
- Rebecca A. Kennedy – (Chair) The effect of narrative feedback on the learning and transfer of complex communication skills. (2015-2017).
- Brandon Fluegel (Chair). Effect of Interruption Complexity and Relevance on Visuospatial Task Resumption. (2018-2020).
- Alex Proaps (Member). The impact of first-person perspective text on drivers' road-sharing comprehension, leaning judgments, attitudes, and intentions to safe road-sharing behaviors. (2020-2021)
- Scott A. Mishler (Co-Chair). Framing automation trust: How initial information about automated driving systems influences swift trust in automation and trust repair for human automation collaboration. (2023).
- Sarah Powers (Chair). Comparing the effects of task experience and source of interruptions on resumption performance. (2021-2024).
- Shelby K. Long. (Member). An interaction between mental integration and levels of automation: An analytic approach. (2021-present).
- Kimberly Perry (Chair). Comparing the effect of cueing against priming on visual interruptions. (2021-present).
- Amanda Ashdown (Chair). Investigating the ability to perceive nonverbal behaviors in different interaction formats. (2018-present).
- Matthew Pacailler (Chair). The effect of multiple moderators on interruption decision-making.

DOCTORAL GUIDANCE COMMITTEES

- Catherine Greenwald Mergen (Member) (1993)
- Keith Rettig (Chair) (1993-1998)
- David A. Sawin (Chair) (1994-1998)
- Lawrence Prinzel (Chair) (1995-1997)
- Peter Ceplenski (Chair) (1995-1998)
- Kristin Krahl (Chair) (1996-present)
- Todd Eischeid (Chair) (1997-2000)
- Julie Stark (Chair) (1998-2001)
- Jean Catanzaro (Chair) (1998-2001)
- Gary Cappobianco (Chair) (2000-2003)
- Nathan Bailey (Chair) (2001-2003)
- Matthew Risser (Chair) (2001-2003)
- Rob King (Member) (2003-2006)
- Elizabeth Schmidt (Chair) (2004-2006)
- Jennifer May (Member) (2004-2006)
- Amber Nalu (2007-2008)
- Elizabeth Newlin (Chair) (2007-2009)
- Robert Turner (Chair) (2007-2009)
- Brittany Anderson (Chair) (2009-2010)
- Jeremy Brown (Member) (2010-2011)
- Alex Proaps (Member) (2011-2012)
- Erik Prytz (Chair) (2011-2012)

Rebecca Kennedy (Chair) (2013)
 Kellie Kennedy (Member, 2013-2015)
 Nicole Karpinsky (Member, 2016-2018)
 Amanda Ashdown (Chair, 2016-2017)
 Brandon Fluegel (Chair, 2017-2018)
 Cyeda Dunder (Chair, 2017-2019)
 Shelby Long (Member, 2019).
 James Unverricht (Member, 2019-2021).
 Kimberly Perry (Chair, 2020-2021)
 Sarah Powers (Chair, 2020-2021)
 Sarah Yahoodik (Member, 2020-2021)
 Tetsuya Sato (Member, 2020-2022)
 Scott Mishler (Member, 2020-2022)
 Matthew Pacailler (Chair, 2021-2022)
 Michael Politowicz (2024-present)

MASTERS STUDENTS

Catherine Greenwald (Member) - Multiple cue probability learning: Effects of individual differences on MCPL performance, (1992).
 Donald Cherry (Member) - Electrodermal activity as a function of facial familiarity and name stimulus match, (1993).
 Orhan Beckman (Member) - Intersection decisions and reaction time, (1993).
 Cristina Bubb-Lewis (Member) - Reaction time and conjunctions of shape, size, color, and direction, (1993).
 Stephen Cunningham (Member) - EEG and ERP correlates of task-unrelated thought intrusions (1994).
 David A. Sawin - (Chair) Vigilance: Instruction effects and personality correlates of performance, workload, and boredom (1994).
 Rebbecca Miller - (Chair) Judging statistical significance: The effects of standard error bar formats and visual displays, (1994).
 Lawrence Prinzel - (Member) A bio-cybernetic system for regulating operator engagement in an adaptively automated, multi-task flight environment, (1995).
 Daniel Phillips - (Member) Predictive value of Apgar scores when developmental rates are established: An elimination of corrections for prematurity, (1995).
 Pamela Bishop - (Chair) The effects of simultaneous and successive tasks and knowledge of results on ADD and nonADD children, (1995).
 Peter Ceplenski - (Chair) The effects of multiple monitors and knowledge of results on vigilance and mental workload, (1995).
 Sheryl-Lynn Roberts - (Chair) The effects of fragrance, instructional set, and boredom proneness on performance in a vigilance task, (1995).
 Steven Springer - (Chair) Event asynchrony and TUTs in vigilance, (1996).
 Jason Parker (Member) - Animal word and sound test, (1996).
 Oliver Hedgepath (Member) - Alternative approaches for using neural nets to predict battle outcomes, (1996).
 Todd Eischeid - (Chair) The effects of task partitioning and computer skill level on operator engagement And performance in an adaptive, biocybernetic environment, (1997).
 Pamela Williams - (Member) Effect of a Circuit Weight Training Program on the Body Images of College Students, (1997).
 Victoria Schoenfeld - (Chair) Searching for the presence and absence of features in sustained attention: The Effect of discriminability and display size on performance and workload, (1998).
 Mark Perez-Lopez - (Member) The relationship of antifat attitudes to other prejudicial attitudes: Construct validation of the antifat attitudes test, (1998).
 Trevin Picket - (Member) Electro cortical output and hemispheric contributions to the alert state during a

- Sustained attention task, (1998).
- Gerald Hadley - (Member) Psychophysiological measures and performance effects in an adaptive Sustained task, (1999).
- Jaime L. LoVerde (Chair) The effects of task demand and knowledge of results on operator engagement and Vigilance performance moderation with a biocybernetic system, (1999).
- Julie M. Stark (Chair) Behavioral and subjective measures of mental fatigue and workload: Examining allocation Of effort during extended multiple task performance, (1999).
- Margaret Susan Hart (Member) The impact of parental variables an child behavior at home and in the classroom (2000).
- Nathan Bailey (Chair) Motion perception of angularly expanding stimuli within a presence versus absence framework, (2001).
- Joseph Coyne (Chair) Attending to multiple simultaneous auditory events, (2001).
- Joseph Hope (Chair) The effects of a modified Gantt chart: Depicting schedule risk, (2003).
- Elizabeth Schmidt (Chair) The role of field dependence and independence in visual search, (2003).
- Krystall Dunaway (Member) First-year student retention and achievement: The influence of diversity and background characteristics, (2005-2006).
- Brittany Anderson (Chair) Monitoring maternal-fetal heart rate signals. (2007-2008)
- Clinton S. Comer (Member) The effect of task instructions and working memory on syllogistic reasoning performance (2007).
- Jeff Lawrence (Member) Auditory acuity and working memory. (2007-2008)
- Katelyn Ealer (Member) (2009-present).
- Rebecca Kennedy (Chair) The effect of depth judgments on mental workload in laparoscopy measured by a visual-spatial secondary task (2011).
- Ashley N. Linden (Member) Caffeinated alcohol use and anxiety symptoms among college students (2012).
- Veronica Scerra. (Member) Effect of sensory modality on performance, workload, and frontal lobe oxygenation in a standard vigilance task. (2012 – 2013).
- Stefan LaTulip (Member) Depression symptoms, social anxiety, and attachment as predictors of the use and quality of cyber communication. (2012-2013).
- Amada Ashdown (Chair) An examination of the ability to categorize fetal heart rate variability. (2013-2015).
- Benjamin I. Bass (Member). The effects of student violence against school employees on employee burnout and work engagement: The roles of perceived school unsafety and transformational leadership (2014).
- Levi Warvel (Chair) Assessing the effectiveness of an interval estimation and a visual-spatial secondary task as measures of mental workload during laparoscopy. (2014).
- Isabella Gagliano (Member). Effects of auditoryvection speed and directional congruence on perceptions of visualvection (2014-2016).
- Jessica Block (Member). Relationship satisfaction and coparenting over the transition to parenthood: depression, division of labor and child temperament as moderators (2015-2016).
- Nicole Karpinsky (Member) The effect of concurrent visuospatial memory load on automation use in a visual detection task. (2015).
- Brandon Fluegel (Chair) The effects of interruptions during a laparoscopy skills training task (2017).
- Samantha Zybak (Chair). Categorizing ultrasound images using two different visual aids. (2017) - withdrawn
- Kelsey Ellis (Member) Examining the roles of behavioral inhibition in harsh parenting preferences: An analog study. (2018).
- James Corcoran (Chair). Comparing the effects of mental workload with visual and auditory secondary tasks laparoscopic surgery. (2019).
- Kimberly Perry (Chair). The effect of cuing and task interruptions on detecting changes in dynamic scenes. (2019).
- Sarah Powers (Chair). Examining the effect of interruptions at different breakpoints and frequencies within a task. (2019).
- Nathan Hager (Member). The influence of neural reward processing on memory in depression. (2018-2019).
- Catherine Angelini (Member). The out of the loop performance problem with adaptive automation as a function of transparency and information processing level (2018-present).

- Sarah Leibner (Member). The effects of transparency and haze on trust and performance during a full motion video analysis task (2019-2020).
- Tetsuya Sato (Member). Exploring the effects of task priority on attentional allocation and trust towards imperfect automation: A flight simulator study (2019-2020).
- Lynn McElyea (Member). Effects of income disparity on relationships (2021-2022).
- Taylor Kalgren (Member). Examining the experience and impact of teen -to-teen crisis line work for youth volunteers: A pilot study. (2022-2023).
- Alba Couturier (Member). Relationship between job demands, work pressure, job satisfaction, and burnout in university faculty: Does approach-based coping and support help? (2021-2024).
- Rachel Ball (Chair). Examining the effects of camera angles on interpersonal impressions. (2022-present).
- Macy Kisiel (Member). Investigating the effects of empathy on race bias in processing subtle emotional expressions among college students. (2023-present).

UNDERGRADUATE HONORS THESES

- Jennifer M. Sing, Mental models and systemic thinking: A replication and extension of Sinn (1977), (1999).
- Marla Zinni, Searching for moving and stationary targets: the role of velocity, type of movement, and target density (2001).
- Sommer N. Thompson, Magnitude estimation of velocity in the X, Y, and Z, axes, (2004).
- Amanda Ashdown. Detecting critical patterns in maternal-fetal heart rate signals with visual aids. (2012)

UNDERGRADUATE MENTOR

- Fall 2011, Amanda Ashdown
 Spring 2012, Amanda Ashdown
 Spring 2016, Alexandra Davis, Christine Huse
 Summer 2016, James Clarke
 Fall 2016, Megan Peters
 Spring 2017, Brittany Crawford
 Spring 2020, Fern Prompravat, Anne Mendoza
 Fall 2022, Baillie Hirst
 Spring 2023, Baillie Hirst

PUBLIC SERVICE

- Interviewed by Yvonne Simons about subliminal perception for WTKR News (aired Dec. 9, 1991).
- Memory and Forgetting. Presentation to the Norfolk Jewish Community Center Temple, Norfolk, VA. Mar., 1996.
- Interviewed by Pat Dooley for Remember to Read This Story about... Uh... in *The Virginian-Pilot*, Mar. 3, 1998.
- Interviewed by staff for Emotions and Music in the *Daily Press*, Mar. 18, 1998.
- Interviewed by Beth Azar for The Danger of Automation: It Makes Us Complacent in *The APA Monitor*, July, 1998
- Interviewed by Peter Bacque for Training is a Lifesaver in *Richmond Times-Dispatch*, Apr. 5, 2003.
- Interviewed by Bob Matthews about virtual environments for training checkpoint tasks for WTKR News (aired Apr. 3, 2003).

Interviewed by Erik Stetson for Protecting the Protectors in *Soundings*, Apr. 23, 2003.

Interviewed by William H. McMichael for Simulation Training: A Virtual Introduction in *Navy Times*, June 30, 2003; Virtual Checkpoint Can Prep Soldiers for Dangerous Duty in *Army Times*, June 9, 2003.

Interviewed by Philip Walzer for Simulation Helps Keep Doctors Cool Under Fire in *The Virginian-Pilot*, Aug. 2, 2004.

Interviewed by Tracey Moynihan about surgical skills under simulated combat for WAVY-TV10 News (aired Aug. 4, 2004).

Virtual Environments: A New Training Method for Dangerous Jobs. Presentation to the Norfolk Rotary Club, Norfolk, VA. Nov., 2004.

Member of the Advanced Initiatives in Medical Simulation delegation to the U.S. Capitol, Washington, D.C. (May, 2004). Facilitated demonstrations of medical simulation technology designed to promote patient safety in the Dirksen Senate Office Bldg.

Member, ODU/VMASC delegation to the 2004 Interservice/Industry Training, Simulation and Education Conference, Orlando, FL. (Dec., 2004). Gave multiple talks and demonstrations on the value of virtual environments for training.

Interviewed by Pamela Maddox for Simulation Technology at ODU to Help Medics at War in *The Mace & Crown*, Dec. 1, 2004.

Member of the Advanced Initiatives in Medical Simulation delegation to the U.S. Capitol, Washington, D.C. (May, 2005). Facilitated demonstrations of medical simulation technology designed to promote patient safety in the Dirksen Senate Office Bldg.

Interviewed by Alan Brown for Virtual OR in *Mechanical Engineering*, Nov. 2006.

Interviewed by James Raper for Psychology Prof Helps Develop Virtual Operating Room in *The Courier*, Dec. 9, 2006.

Interviewed by Anthony C. Hall for Practicing to Practice in *The New Physician*, April, 2007.

Member of the Advanced Initiatives in Medical Simulation delegation to the U.S. Capitol, Washington, D.C. (May, 2007). Conducted demonstrations of ODU/EVMS medical simulation technology designed to promote patient safety in the Rayburn House of Representatives Office Bldg.

Interviewed by James Raper for ODU, EVMS Researchers Showcase New Stethoscope in *The Courier*, June. 8, 2007.

Interviewed by Jon Glass for Modeling and Simulation Mean Real Opportunities in *The Virginian-Pilot*, Sept. 9, 2007.

Member of the PEOSTRI Congressional Modeling and Simulation Exhibition at the U.S. Capitol, Washington, D.C. (Feb, 2008). Conducted demonstrations of ODU/EVMS medical simulation technology designed to promote patient safety in the Senate Dirksen Bldg and the Rayburn House of Representatives Office Bldg.

Member of the Advanced Initiatives in Medical Simulation delegation to the U.S. Capitol, Washington, D.C. (May, 2008). Facilitated demonstrations of medical simulation technology designed to promote patient safety in the Library of Congress.

Interviewed by Jacob Geiger for Modeling and Simulation Makes Inroads in Other Fields in *The Virginian-Pilot*, Aug.17, 2008.

Interviewed by Hugh Lessig for Operation Simulation in *The Daily Press*, Mar.8, 2009.

Interviewed by Debbie Messina for Why Traffic Slows When Drivers Hit Tunnels in *The Virginian-Pilot*, Nov.7, 2010.

Scerbo, M.W. (2012, Apr.). Human factors psychology and healthcare simulation: A prescription for patient safety. The Tidewater Chapter of Sigma Xi, Suffolk, VA.

Interviewed by Rachel Boagey for The Mobile Office in *Automotive World Megatrends* magazine, Q1, 2014.

Interviewed by Sarah H. Bowman for *Campbell University's Medical School Hosts Interprofessional Simulation Conference* in My Daily Record, Dunn, NC, July 7, 2015.

Psychology Primer. Presentation made to the Deep Creek High School Science and Medicine Academy. May. 6, 2016.

Psychology Primer. Presentation made to the Deep Creek High School Science and Medicine Academy. May. 12, 2017.

Psychology Primer. Presentation made to the Deep Creek High School Science and Medicine Academy. Oct. 9, 2018.

Psychology Primer. Presentation made to the Deep Creek High School Science and Medicine Academy. Oct. 22, 2019,

Interviewed by Dr. Jeffry Barsuk for the Simulation in Healthcare Education Podcast, Podcast-SHE-Season2Ch9-Mark Scerbo-Simulation in Healthcare Journal, Feb. 1, 2023.