

Ranjana K. Mehta, Ph.D.
Assistant Professor
Environmental and Occupational Health
School of Public Health
Texas A&M University
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Education

- Ph.D., Industrial & Systems Engineering** (Human Factors & Ergonomics) July 2011
Virginia Tech, Blacksburg, VA
Dissertation: *Interactive Effects of Physical and Mental Workload: A Study of Muscle Function, Capacity and Exertion Type*
Faculty Advisor: Dr. Michael Agnew
- M.S., Industrial & Systems Engineering** (Human Factors & Ergonomics) Dec 2009
Virginia Tech, Blacksburg, VA
- M.Eng., Industrial Engineering** (Human Factors & Ergonomics) Sep 2006
State University of New York at Buffalo, Buffalo, NY
- B.E., Production Engineering** June 2004
University of Mumbai, India

Professional Experience

Texas A&M University

- 2013 – present Assistant Professor (tenure-track), Environmental and Occupational Health
Graduate Faculty, Texas A&M Institute for Neuroscience
Director, NeuroErgonomics Laboratory
Co-Director, Texas A&M Ergonomics Center
- 2016 – present Assistant Professor (Courtesy appointment), Industrial and Systems Engineering
Faculty Fellow, Center for Remote Health Technologies and Systems
- 2017 – present Faculty, Center for Population Health and Aging

Michigan Technological University

- 2011 – 2012 Assistant Professor (tenure-track, joint appointment), Department of Cognitive &
Learning Sciences, Department of Kinesiology & Integrative Physiology

Virginia Tech

- Summer 2011 Instructor, Industrial & Systems Engineering
- 2006 – 2011 Graduate Research & Teaching Assistant, Industrial & Systems Engineering
- 2006 – 2010 Undergraduate Program Assessment Coordinator, Industrial & Systems
Engineering

Honors and Awards

2014	James G. Zimmer New Investigator Research Award, American Public Health Association
2013	Best Professional Presentation, Houston Human Factors and Ergonomics Society
2012	REACH Fellowship, Project Comprehensive Equity at Ohio State
2009 – 2011	United Parcel Service Doctoral Fellow, Virginia Tech
2010	Citizen Scholar, Virginia Tech
2007 – 2010	John Lee Prat Fellowship, Virginia Tech
2009	Best Paper Award (Human Factors and Ergonomics track), Industrial Engineering Research Conference
2009	Future Professoriate Graduate Certificate
2008 – 2011	Alpha Pi Mu Honor Society, Virginia Tech
2003 – 2004	Academic Excellence Award, Lokmanya Tilak College of Engineering., India

Teaching

Assistant Professor, Texas A&M University

Classes

- *Occupational Biomechanics* (PHEO 678, graduate course): Fall 2014, 2015, 2016
- *Environmental and Occupational Health Capstone* (SOPH 680, graduate project course): Spring 2016, Spring 2017
- *Environmental and Occupational Health Capstone* (SOPH 680, graduate research course): Spring 2017, Fall 2017
- *Operator Fatigue Monitoring and Management* (PHEO 689, graduate course): Spring 2017
- *Ergonomics I: Prevention and Control of Low Back Pain* (PHEO 678, graduate course): Summer 2013
- *Directed Studies* (PHEO 685):
 - Whitney Mantooth, Environmental and Occupational Health, Spring 2017
 - Ashley Shortz, Environmental and Occupational Health, Fall 2015, 2016
- *Directed Studies* (NRSC 685):
 - Jing Chen, Motor Neuroscience, Fall 2014, Spring 2015
 - Taewon Kim, Motor Neuroscience, Fall 2014, Spring 2015
 - Kathryn Tippey, Industrial and Systems Engineering, Fall 2014
- *Directed Research* (PHEO 686):
 - Carolina Rodriguez, Industrial and Systems Engineering, Spring 2016
 - Gregory Garrett, Environmental and Occupational Health, Fall 2014
 - Monica Hutton, Environmental and Occupational Health, Fall 2014

Guest Lectures

- *Human Factors Engineering* (Montana State University graduate course): Spring 2017
- *Occupational Safety* (PHEO 618, graduate course): Fall 2013
- *Ergonomics of the Upper Extremity* (PHEO 679, graduate course): Fall 2013
- *Environmental and Occupational Health Seminar* (PHEO 681, graduate course): Spring 2014, 2015, 2016

Professional Education Workshops Offered

- *Ergonomics for the Changing Workforce* (Applied Ergonomics Conference): March 2017
- *Office Ergonomics* (Exxon Mobil): April 2014

Assistant Professor, Michigan Technological University

Classes

- *Psychophysiology* (PSY 3060, undergraduate course): Fall 2011, 2012
- *Health Psychology* (PSY 2400, undergraduate course): Summer 2012
- *Sensation and Perception* (PSY 4160, undergraduate course): Spring 2012
- *Human Physical Capabilities* (PSY 6991, graduate course): Spring 2012

Instructor, Virginia Tech

Classes

- *Work Measurement Methods Engineering* (ISE 3014, undergraduate course): Summer 2011
- *Occupational Safety and Hazard Control* (ISE 4644, undergraduate course): Fall 2008

Advising

Postdoctoral Research Mentor

- Joohyun Rhee, PhD, Motor Neuroscience Texas A&M University, June 2015 – present

Dissertation Committee Chair

- Paul Ritchey (co-chair), DrPH, Environmental and Occupational Health, Summer 2017
- Ashley Shortz, DrPH, Environmental and Occupational Health (expected Spring 2018)
- Yibo Zhu, DrPH, Environmental and Occupational Health (expected Spring 2020)

Thesis Committee Chair

- Ashley Shortz, MSPH, Environmental and Occupational Health, Summer 2015
 - Awarded: ***Research Excellence Award – Master's level***
- Osofundiya, Olufunmilola, MSPH, Environmental and Occupational Health, Spring 2015

Research Capstone Committee Chair

- Sarah Sparks, MPH, Environmental and Occupational Health, expected Fall 2017
- Whitney Mantooth, MPH, Environmental and Occupational Health, expected Spring 2018

Thesis/Dissertation Committee Member at Texas A&M University

- Stephanie M. Vidrine, PhD, Educational Psychology, Summer 2017
- Seyed Hosseinian, MS, Industrial and Systems Engineering, expected Fall 2017
- Hanna Tracey, MS, Chemical Engineering, expected Spring 2018
- William Johnson, DrPH, Environmental and Occupational Health, expected Fall 2017
- Greg Garrett, DrPH, Environmental and Occupational Health, expected Fall 2017

- Parag Sharma, DrPH, Environmental and Occupational Health, expected Summer 2018
- Linda Bridges, DrPH, Environmental and Occupational Health, expected Spring 2018
- Tricia Salazar, DrPH, Environmental and Occupational Health, expected Spring 2018
- Sloane Hoyle, DrPH, Environmental and Occupational Health, expected Spring 2018
- Aya Yoshikawa, DrPH, Health Promotion and Community Health Sciences, expected Spring 2018
- Marisa Biondi, PhD, Development Psychology, expected Spring 2018
- Jing Chen, PhD, Health and Kinesiology, expected Spring 2018
- Lakshmi Dakuri, MSPH, Environmental and Occupational Health, graduated 2015

External Thesis/Dissertation Committee Member

- Xu Duan, MS, Industrial and Systems Engineering, Virginia Tech, expected Fall 2017
- Martin Sepoori, PhD, Mechanical Engineering, Michigan Technological University, 2013

Visiting Scholar Host

- Betsy Abraham, Grade 11, Med High School, Mission TX, Summer 2017
- Maryshe Zietsman, BS Biology, UT Austin, Summer 2017
- Yibo Zhu, MS Biomedical Engineering, UT Arlington, 2016 – 2017
- Elena Mora, BS Neuroscience, UT Austin, 2015 – 2016

Undergraduate Research Mentor

Texas A&M University

- Hayley Hardwick, Public Health Studies, Texas A&M University, 2016 – present
- Rasik Jainik, Public Health Studies, Texas A&M University, 2016 – present
- Catherine Pieratt, Public Health Studies, Texas A&M University, 2016 – present
- Ecem Kilic, Biomedical Engineering, Texas A&M University, 2016 – present
- Madeline Franke, Biomedical Engineering, Texas A&M University, 2016 – present
- Maha Rasheed, Sociology, Texas A&M University, 2016 – present
- Taylor Dillard, Biomedical Engineering, Texas A&M University, 2015 – present
- Michelle Nvouvo, Philosophy, Texas A&M University, 2015 – present
- Hannah Baker, Biomedical Engineering, Texas A&M University, 2015 – 2016
- Lynee Herrera, Psychology, Texas A&M University, 2015 – 2016

Michigan Tech

- Allyson McEwen, Biological Sciences, Michigan Tech, Fall 2012
- Trey Saari, Exercise Sciences, Michigan Tech, Fall 2012
- Abigail Dewitt, Exercise Sciences, Michigan Tech, Fall 2012
- Ashley Shortz, Exercise Sciences, Michigan Tech, 2011 – 2012
- Rachael Huff, Psychology, Michigan Tech, Spring 2012, Summer 2012, Fall 2012
- Sarah Van Dyke, Psychology, Michigan Tech, Spring 2012, Summer 2012, Fall 2012
- Alex Warnsholz, Exercise Sciences, Michigan Tech, Spring 2012
- Amanda Crane, Exercise Sciences, Michigan Tech, Spring 2012

Funding

(% indicates credit toward grant, underlined indicates student led-research grant)

1. Southwest Center for Occupational and Environmental Health (NIOSH Pilot Projects Program): *Development of Fatigue Risk Assessment Method for High Risk Environments* (PI: Shortz, AE., **Mehta, RK.** – Mentor), \$10,000 2017 – 2018
2. Qatar National Priority Research Program: *Smart, Secure, Non-invasive Wearable System for Proactive Detection of Hypoglycemic Events* (PI: Khalid Qaraqe, **Co-PIs: Mehta, RK. (20%),** Lawley, M., Sasangogar, F., Erraguntla, M.), \$798,448 2017 – 2020
3. National University Transportation Center, Safety Through Disruption (SafeD): *Goal Zero: Driver training for automated vehicle technology* (Manser, M. (TTI PI), Klauer, C. (VTTI PI), Machiani, G. (SDSU PI), **Mehta, RK. (TAMU Co-I, 6%)**), \$400,954 2017 – 2018
4. National Academies of Sciences: *Factoring in the Human in Offshore Operations: Forces for Scenario Planning* (PI: **Mehta, RK.**), \$200,000 2016 – 2017
5. National Institutes of Health: *Obesity, Stress, and Neuromuscular Functioning in the Elderly* (PI: **Mehta, RK.**, Co-Is: Madigan, M., Wilcox, T., Zhao, H., Ory, M.), \$347,527 2015 – 2018
6. Herman Miller: *Cognitive ergonomics and the modern office* (PI: **Mehta, RK.**, Co-I: Benden, M.), \$65,000 2017
7. National Institute on Occupational Safety and Health: *Occupational Safety and Health Training Program* (PI: Benden, ME., **Co-Is: Mehta, RK. (25%)**, Peres, SC., Picken, A.), \$349,260 2012 – 2017
8. Mary K O'Connor Process Safety Center & Texas A&M School of Public Health: *Developing industry-academic partnerships to facilitate fatigue risk management research in the energy sector* (PI: **Mehta, RK.**), \$60,000 2016 – 2017
9. Office Ergonomics Research Consortium: *Validation and application of a self-report measure to assess office ergonomic risks* (PI: **Mehta, RK.**, Co-PI: Peres, SC.), \$35,589 2016
10. National Institute on Occupational Safety and Health: *Revised Force-Endurance Models for the US Workforce* (PI: Cavuoto, LA., **Subcontract PI: Mehta, RK. (50%)**), \$167,000 2014 – 2016
11. Hogg Foundation for Mental Health: *Brain imaging correlates of precision motor control in major depression* (PI: **Mehta, RK.**), \$19,250 2015 – 2016
12. PESCA, Texas A&M University: *Computer/Video Games, Hemodynamics, and ADHD* (PI: Riccio, C., **Co-PI: Mehta, RK. (50%)**), \$17,953 2015 – 2016
13. School of Public Health REDI Grant: *Obesity, Stress, and Mobility Outcomes in Older Adults* (PI: **Mehta, RK.**), \$25,000 2015 – 2016
14. Hewlett Packard: Exploring variables associated with users' satisfaction, performance, and physiological responses based on keyboard attributes (PI: Peres, SC., **Co-PI: Mehta, RK. (50%)**), \$34,997 2015 – 2016
15. Center for Disease Control and Prevention (SBIR Phase II): *Development of a Stand-Biased School Desk to Reduce Childhood Obesity* (PI: Benden, ME., **Co-I: Mehta, RK. (20%)**) \$275,300 2013 – 2015

16. Huffines Institute for Sports Medicine and Human Performance: *Physical Functioning under Stress: Imaging of the Aging Brain in Obese Individuals* (PI: Mehta, RK.), \$7,500
2014 – 2015
17. Office Ergonomics Research Consortium: *User Interface Biomechanics: Does the Interaction Design of the User Interface Impact Ergonomic Risk Factors?* (PI: Peres, SC., Co-PI: Mehta, RK. (50%)), \$26,500
2013 – 2015
18. Exxon Mobil: Cataloging Modern Office Jobs via ACGIH, TLV-HAL Ratings (PI: Benden, ME., Co-Is: Mehta, RK. (33%), Pickens, A.), \$24,405
2013
19. Southwest Center for Occupational and Environmental Health (NIOSH Pilot Project): *Influence of workplace stress and personal factors on musculoskeletal disorders* (PI: Mehta, RK.), \$10,000
2013
20. NASA Michigan Space Grant Consortium: *Interactive effects of physical and mental fatigue on task performance during orthostatic challenge*, (PI: Mehta, RK.), \$10,000
2012
21. Michigan Technological University, Research Excellence Fund: *Neural correlates of physical & mental fatigue* (PI: Mehta, RK.), \$38,155
2012
22. Michigan Technological University, Mentoring Grant: *Developing neuroergonomic research capabilities to address occupational health issues* (PI: Mehta, RK., Parasuraman, R - Mentor), \$10,000
2012
23. Michigan Technological University, Century II Campaign Endowed Equipment Fund: *Establishing a psychophysiology laboratory* (PI: Mehta, RK.), \$9,000
2012
24. Center for Innovation in Construction Safety and Health: *Physiological Effects of Physical and Mental Workload during Intermittent Static Work: A Study of Muscle Function and Capacity* (PI: Agnew, MJ., Co-PI-student: Mehta RK), \$5,000
2010 – 2011

Grants Pending Review (% indicates credit toward grant)

1. National Institute on Occupational Safety and Health: *Fatigue assessment in oil and gas operations* (PI: Mehta, RK., Co-Is: Peres, SC., Mannan, S., Lawley, M., Erraguntla, M., Miller, J.), \$408,375 [Scientific review June 2017: Impact Score: 29, Percentile: 25, Council Review Pending, Resubmission planned for October 2017]
2018 – 2019
2. Industry consortium through Mary K O'Connor Process Safety Center: *Fatigue Risk Assessment & Management in high-risk Environments (FRAME) Initiative* (PI: Mehta, RK., Co-PIs: Peres, SC., Mannan, S.), \$200,000 [Distributed to Industry Sponsors]
2018 – 2019
3. National Academies of Sciences: *Enhancing Critical Decision Making to Assist in Kick Detection and Blowout Prevention through Human Systems Integration* (PI: Peres, SC., Co-PIs: Mehta, RK. (33%), Sasangohar, F.), \$1,000,000
2017 – 2020
4. National Institute on Occupational Safety and Health: *WORK: Workplace Obesity Research Kiosk*, (PI: Mehta, RK., Co-Is: Lightfoot, T., Cavuoto, L., Zhao, H.), \$1,937,783 [Pending Scientific Review]
2018 – 2022
5. National Institutes of Health: *Supplement - Obesity, Stress, and Neuromuscular Functioning in the Elderly* (PI: Mehta, RK.), \$148,500 [Pending Review]
2017 – 2018

Editorials

1. **Mehta, RK.** (2016). Integrating Physical and Cognitive Ergonomics, *IIE Transactions on Occupational Ergonomics and Human Factors*, 4:2-3, 83-87, DOI: 10.1080/21577323.2016.1207475

Book Chapters ¹ postdoctoral researchers

Accepted

1. **Mehta, RK.** & Rhee, J.¹ Quantifying brain hemodynamics during neuromuscular fatigue. In Ayaz, H. & Dahais, F. *Neuroergonomics: The Brain at Work and in Everyday Life*. Elsevier.

Published

2. Carrillo, G., **Mehta, RK.**, & Johnson, N. M. (2016). Neurocognitive Effects of Pesticides in Children. In Riccio, CA. & Sullivan, JR. (pp. 127-141). *Pediatric Neurotoxicology: Academic and Psychosocial Outcomes*. Springer.
3. Johnson, N. M., Carrillo, G., & **Mehta, RK.** (2016). Academic and Psychosocial Impact of Air Pollution on Children. In Riccio, CA. & Sullivan, JR. (pp. 167-180). *Pediatric Neurotoxicology: Academic and Psychosocial Outcomes*. Springer.
4. Parasuraman, R. & **Mehta, RK.** (2015). Neuroergonomic Methods for the Evaluation of Cognitive and Physical Work. In Wilson, J.R. & Sharples, S. (pp. 609-640). *Evaluation of Human Work: 4th Edition*. Boca Raton: Taylor & Francis (CRC Press).

Peer-reviewed Journal Publications ¹ postdoctoral researchers; ² graduate students

Accepted

1. **Mehta, RK.** & Cavuoto, LA. (2017). Relationship between BMI and fatigability is task-dependent. *Human Factors*. <http://journals.sagepub.com/doi/10.1177/0018720817695194>
2. Pajoutan, M., Cavuoto, LA. & **Mehta, RK.** Testing the efficacy of existing force-endurance models to account for the changing workforce. *Journal of Occupational and Environmental Hygiene*. <http://dx.doi.org/10.1080/15459624.2017.1334902>

Published

3. Pickens, AW., Robertson, LD., Smith, ML., Zhao, H., **Mehta, RK.**, & Song, S. (2017). Limitations of a Mobile Hearing Test Application. *The Hearing Journal*, 70(6), 34-36.
4. **Mehta, RK.** & Rhee, J.¹ (2017). Age-specific neural strategies to maintain motor performance after an acute social stress bout. *Experimental Brain Research*, 235(7), 2049-57.
5. Buchanan, J., Chen, J.², Park, I.² Wright, D., **Mehta, RK.** (2017). Bimanual coordination patterns are stabilized under monitoring-pressure. *Experimental Brain Research*, 235(6), 1909-1918.
6. **Mehta, RK.**, Peres, SC., Kanan, P.², Rhee, J.¹, Shortz, AE.², Mannan, S. (2017). Comparison of objective and subjective operator fatigue assessment methods in offshore shiftwork. *Journal of Loss Prevention in the Process Industries*, 48, 376-381.
7. Grobe, S., Kakar, RS., Smith, ML., **Mehta, RK.**, Baghurst, T., Boolani, A. (2017). Impact of Cognitive Fatigue on Gait and Sway Among Older Adults: A Literature Review. *Preventive Medicine Reports*, 6, 88-93.

8. McKendrick, R., **Mehta, RK.**, Ayaz, H., Scheldrup, M., & Parasuraman, R. (2017). Prefrontal Hemodynamics of Physical Activity and Environmental Complexity During Cognitive Work. *Human Factors*, 59(1), 147-162.
9. Shortz, AE.², & **Mehta, RK.** (2017). Cognitive challenges, aging, and neuromuscular fatigue. *Physiology & Behavior*, 170, 19-26.
10. Peres, SC., **Mehta, RK.** & Ritchey, P.² (2017). Assessing Ergonomic Risks of Software: Development of the SEAT. *Applied Ergonomics*, 59(A), 377-386.
11. Garrett, G., Benden, ME., **Mehta, RK.**, Pickens, A., Peres, SC., & Zhao, H. (2016). Call Center Productivity Over 6 Months Following a Standing Desk Intervention, *IIE Transactions on Occupational Ergonomics and Human Factors*, 4:2-3, 188-195.
12. Osofundiya, O.², Benden, ME., Dowdy, D., & **Mehta, RK.** (2016). Obesity-specific neural cost of maintaining gait performance under complex conditions in community-dwelling older adults. *Clinical Biomechanics*, 35, 42-48.
13. Pajoutan, M., **Mehta, RK.**, & Cavuoto, LA. (2016). The effect of obesity on central activation failure during ankle fatigue: a pilot investigation. *Fatigue: Biomedicine, Health & Behavior*, 4(2), 115-126.
14. **Mehta, RK.**, Shortz, AE.², Benden, ME. (2016). Standing Up for Learning: A Pilot Investigation on the Neurocognitive Benefits of Stand-Biased School Desks. *Int. J. Environ. Res. Public Health* 13, no. 1: 59. (**Shortz awarded Dean's Best Paper Award**)
15. **Mehta, RK.** (2016). Stunted PFC activity during neuromuscular control under stress with obesity. *European Journal of Applied Physiology*, 116(2), 319-326.
16. Shortz, AE.², Pickens, A., Zheng, Q., & **Mehta, RK.** (2015). The effect of cognitive fatigue on prefrontal cortex correlates of neuromuscular fatigue in older women. *Journal of Neuroengineering and Rehabilitation*, 12(1), 1.
17. **Mehta, RK.** (2015). Impacts of obesity and stress on neuromuscular fatigue development and associated heart rate variability. *International Journal of Obesity*, 39(2), 208-213.
18. **Mehta, RK.** & Cavuoto, LA. (2015). The effects of obesity, age, and relative force levels on handgrip endurance. *Applied Ergonomics*, 46(A), 91-95
19. **Mehta, RK.** & Agnew, MJ. (2015). Subjective evaluation of physical and mental workload interactions across different muscle groups. *Journal of Occupational and Environmental Hygiene*, 10(1), 62-68
20. **Mehta, RK.** & Parasuraman, R. (2014). The effect of mental fatigue on the development of physical fatigue: A neuroergonomic approach. *Human Factors*, 56(4), 645-656.
21. **Mehta, RK.** & Shortz, AE.² (2014). Obesity-related differences in neural correlates of force control. *European Journal of Applied Physiology*, 114(1), 197-204.
22. **Mehta, RK.** & Parasuraman, R. (2013). Neuroergonomics: A Review of Applications to Physical and Cognitive Work. *Frontiers in Human Neuroscience*. 7:889. doi: 10.3389/fnhum.2013.00889
23. **Mehta, RK.** & Agnew, MJ. (2013). Exertion-dependent effects of physical and mental workload on physiological outcomes and task performance. *IIE Transactions on Occupational Ergonomics and Human Factors*, 1(1), 3-15.
24. **Mehta, RK.**, Nussbaum, MA., Agnew, MJ. (2012). Muscle- and task-dependent responses to concurrent physical and mental workload during intermittent static work. *Ergonomics*, 59(10), 1166-1179.

25. **Mehta, RK.** & Agnew, MJ. (2012). Influence of mental workload on muscle capacity during intermittent static work. *European Journal of Applied Physiology*, 112(8), 2891-2902.
26. **Mehta, RK.** & Parijat, P. (2012). Associations between psychosocial risk factors and musculoskeletal disorders: Application to the IT profession in India. *Work*, 41(Suppl. 1), 2438-44.
27. **Mehta, RK.** & Agnew, MJ. (2012). Effects of physical and mental demands on shoulder muscle fatigue. *Work*, 41(Suppl. 1), 2897-2901.
28. **Mehta, RK.**, Horton, L., Agnew, MJ., Nussbaum, MA. (2011). Ergonomic evaluation of hospital bed design features during patient handling tasks. *International Journal of Industrial Ergonomics*, 41(6), 647-652
29. **Mehta, RK.** & Agnew, MJ. (2011). Effects of concurrent physical and mental demands for a short duration static task. *International Journal of Industrial Ergonomics*, 41(5), 488-493
30. **Mehta, RK.** & Agnew, MJ. (2010). Analysis of individual and occupational risk factors on task performance and biomechanical demands for a simulated drilling task. *International Journal of Industrial Ergonomics*, 40(5), 584-591.

Peer-reviewed Conference Proceedings ¹ postdoctoral researchers; ² graduate students; ³ undergraduate students

Accepted

1. Rhee, J.¹, Dillard, T.³, Nzoiwu, M.³, & **Mehta, RK.** (Accepted). Effect of Social Stress on Motor Function in Older Adults: an fNIRS Investigation. To be presented in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, September 2017.
2. Zhu, Y.², Jankay, R.³, Pieratt, L.³, & **Mehta, RK.** (Accepted). Wearable Sensors and Their Metrics for Measuring Comprehensive Occupational Fatigue: A Scoping Review. To be presented in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, September 2017.
3. Short, AE.², Franke, M.³, Kilic, S.³, & **Mehta, RK.** (Accepted). Evaluation of Offshore Shiftwork using Heart Rate Variability. To be presented in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, September 2017.
4. Mantooh, W.², Zhu, Y.², & **Mehta, RK.** (Accepted). Ergonomic Evaluation of Office Furniture on Team Dynamics. To be presented in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, September 2017.
5. Sparks, S.², Hardwick, H.³, & **Mehta, RK.** (Accepted). The Effects of Fatigue and Cognitive Tasks on Neurocognitive Outcomes during Orthostatic Challenge. To be presented in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, September 2017.
6. Gonzales, K.², Sasangohar, F., **Mehta, RK.**, Lawley, M., Erraguntla, M. (Accepted). Measuring Fatigue through Heart Rate Variability and Activity Recognition: A Literature Review of Machine Learning Techniques. To be presented in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, September 2017.

Published

7. **Mehta, RK.**, Peres, S. C., Steege, L. M., Potvin, J. R., Wahl, M., Stanley, L. M., & Nesthus, T. E. (2016). Fatigue Monitoring and Management across Different Industries. In *Proceedings of the*

Human Factors and Ergonomics Society Annual Meeting (Vol. 60, No. 1, pp. 993-996). SAGE Publications.

8. **Mehta, RK.**, Ayaz, H., McKendrick, R., Izzetoglu, K., Willems, B., & Ziegler, M. (2016). Is Functional Near Infrared Spectroscopy (fNIRS) Appropriate for your Research? In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 188-190). SAGE Publications.
9. **Mehta, RK.**, Rhee, J.¹, & Cavuoto, L. (2016). Muscle Oxygenation Correlates of Handgrip Fatigue with Obesity. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 1031-1035). SAGE Publications.
10. Pajoutan, M., **Mehta, RK.**, & Cavuoto, L. A. (2016). Obesity effect on isometric strength of the trunk extensors. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 943-947). SAGE Publications.
11. Shortz, AE.² & **Mehta, RK.** (2014). The Impact of Cognitive Fatigue on Age-related Differences in Neuromuscular Function: A Neuroergonomic Approach. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 58, No. 1, pp. 1924-1928). SAGE Publications.
12. **Mehta, RK.**, Liu, J., Shortz, AE.², Yoshikawa, A.², Lee, SD.², Pankey, RB., Towne, SD., Smith, ML., Howell, D. & Ory, MG. (2014). Functional and Biomechanical Assessments of A Matter of Balance/Volunteer Lay Leader Model A Pilot Investigation. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 58, No. 1, pp. 185-189). SAGE Publications.
13. Ritchey, P.², Peres, S. C., & **Mehta, RK.** (2014). User Interface Biomechanics Does the Interaction Design of the User Interface Impact Ergonomic Risk Factors? In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 58, No. 1, pp. 2003-2007). SAGE Publications.
14. **Mehta, RK.**, Ferris, T., Peres, SC., Riddell, M. (2014). Investigating display-related cognitive fatigue in oil & gas operations. 2014 *Mary Kay O'Connor Process Safety Center International Symposium*, College Station, TX.
15. Cavuoto, LA., & **Mehta, RK.** (2013). The Effects of Obesity and Workload on Hand Grip Endurance. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 57(1), 953-957. SAGE Publications.
16. Sterkenburg, J.², Shortz, AE.² & **Mehta, RK.** (2013). Neural correlates of cognitive task performance during orthostatic challenge. In *Proceedings of the 2013 Industrial & Systems Engineering Research Conference*. San Juan, PR, May 18 – 23.
17. Shortz, AE.² & **Mehta, RK.** (2013). Neural and muscular alterations in healthy and obese during intermittent static exertions. In *Proceedings of the 2013 Industrial & Systems Engineering Research Conference*. San Juan, PR, May 18 – 23.
18. Maikala, RV., **Mehta, RK.**, Ferguson, SA., Parasuraman, R., Redfern, MS., Chambers, AJ. (2012). Application of near-infrared spectroscopy in human factors and ergonomics: Panel Discussion. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 56(1), 1155-1157. SAGE Publications.
19. Shortz, AE.³, Van Dyke, S.³ & **Mehta, RK.** (2012). Neural correlates of physical and mental fatigue. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 56(1), 2172-2176.

20. **Mehta, RK.**, Harrop, S.³, Agnew, MJ. (2009). Effects of physical and mental demands on muscle activity of the upper extremity. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, Volume 53, Number 22, pp. 1709-1713(5). SAGE Publications.
21. **Mehta, RK.**, Van Aken, E., Vest, J. (2009). Using undergraduate student surveys in program assessment. In *Proceedings of the 2009 Industrial Engineering Research Conference*. Miami, FL, May 30 – June 3.
22. Horton, L., **Mehta, RK.**, Kim, S., Agnew, M., Nussbaum, M. (2009). Effects of alternate hospital bed design features on physical demands. In *Proceedings of the 2009 Industrial Engineering Research Conference*. Miami, FL, May 30 – June 3.
23. **Mehta, RK.** & Agnew, M. (2008). An investigation of the impact of fatigue and aging on the performance of spatially constrained assembly tasks commonly found in the construction industry. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, Volume 52, Number 22, pp. 1795-1799(5).

Other Conference Proceedings² graduate students

24. Shortz, AE.², **Mehta, RK.**, Peres, SC., Hoyle, W.² (2017, June). Fatigue Risk Assessment & Management in high risk Environments (FRAME): The FRAME scale. In proceedings of the *Annual Occupational Ergonomics and Safety Conference*.
25. **Mehta, RK.** (2017, June). Addressing Worker Fatigue Issues in the Oil and Gas Extraction Industry. In *ASSE Professional Development Conference and Exposition*. American Society of Safety Engineers.

Peer-reviewed National/International Conference Presentations/Posters¹

postdoctoral researchers;² graduate students;³ undergraduate students, * presenting author

Accepted

1. Riccio C.*, **Mehta RK.**, Vidrine, S.², Rhee, J.¹, Garrett, G.², Herrera, L.³. (2017). Gaming Experience: Hemodynamics and Executive Function. *2017 National Academy of Neuropsychology Annual Conference*. October 25-28, Boston, MA.

Published

2. Ritchey, P.^{2*} **Mehta, RK.** & Peres, SC. (2017). Development and Validation of a Self-report Ergonomic Assessment Tool (SEAT). *2017 Applied Ergonomics Conference*. March 27-30, Orlando, FL.
3. Garrett, G.^{2*} **Mehta, RK.** & Benden, ME. (2017). Cognitive Benefits of Sit-Stand Desk Workstations. *2017 Applied Ergonomics Conference*. March 27-30, Orlando, FL.
4. Shortz, AE.^{2*} & **Mehta, RK.** (2017). Depression and Work Performance: What can we do? *Poster presented at the 2017 Applied Ergonomics Conference*. March 27-30, Orlando, FL.
5. Gonzalez, K.^{2*}, **Mehta, RK.**, Lawley, M., Rhee, J.¹, Shortz, AE.², Peres, SC. (2016). *Quantifiable Fatigue Risk Assessment in Oil and Gas Extraction Operations: A Data Analytics Approach*. *Poster presented at the INFORMS 2016*, Nashville, TN.
6. Shortz, AE.^{2*} **Mehta, RK.** & Benden, ME. (2016). Cognitive Effects of Stand-Biased Desks in High Schools. *2016 Applied Ergonomics Conference*. March 21-24, Orlando, FL.

7. **Mehta, RK.*** Pickens, A., Benden, ME., Peres, SC., Ory, MG. & Towne, S. (2016). Ergonomic risk behaviors among college students. *2016 Applied Ergonomics Conference*. March 21-24, Orlando, FL.
8. Peres, SC.* **Mehta, RK.** & Ritchey, P.² (2016). Software Biomechanics: Developing a New Self-report Assessment Tool. *2016 Applied Ergonomics Conference*. Mar 21-24, Orlando, FL.
9. Pickens, A.* Benden, ME., **Mehta, RK.**, Peres, SC., Ory, MG. & Towne, S. (2016). Ergonomic awareness among college students. *2016 Applied Ergonomics Conference*. March 21-24, Orlando, FL.
10. **Mehta, RK.*** (2016). Cortical representation of precision motor control in adults with major depression. *Poster presented at the 9th World Congress for Neurorehabilitation*. May 10-13, Philadelphia, PA.
11. Mora, ER.^{2*} Mapar, S.², & **Mehta, RK.** (2015). Age-specific cortical control during quadriceps activation: a fNIRS investigation. *Society for Neuroscience*. October 17-21, 2015, Chicago, IL.
12. Buchanan, J.J.* Park, I., Chen, J., **Mehta, RK.**, & Wright, D.L. (2015). Bimanual coordination dynamics under social pressure (2015). *Journal of Sport and Exercise Psychology*, Vol. 37.
13. **Mehta, RK.*** (2015). Does Stress Sabotage Your Ergonomics Program? *2015 Applied Ergonomics Conference*. Nashville, TN. Mar 16-19.
14. **Mehta, RK.*** Towne SD Jr, Shortz AE, Yoshikawa A, Pankey RB, Smith ML, Ory MG. (2015). BMI selectively impairs postural balance under dual task conditions. *Poster presented at the Gerontological Society of America Annual Conference*. November 18-22, 2015, Orlando, Florida.
15. Yoshikawa, A.^{2*}, Towne, SD., **Mehta, RK.**, Smith, ML., & Ory, MG. (2015). Change in Mobility and Associated Factors in a Falls Prevention Program for Community-dwelling Older Adults. *15th Annual Scientific Meeting of the American Academy of Health Behavior*, San Antonio, TX, Mar 15-18.
16. Pankey, RB.* **Mehta, RK.**, Woosley, J., Shortz, A.², & Yoshikawa, A.² (2014). A comparison of four sensory condition protocols on the mCTSIB balance tests in aging adults. *In Medicine and Science in Sports and Exercise* (Vol. 46, No. 5, Pp. 690-691)
17. **Mehta, RK.*** (2014). Obesity and workplace falls prevention. *2014 Applied Ergonomics Conference*. Orlando, FL. Mar 24-27.
18. **Mehta, RK.*** (2014). Influence of stress and obesity on musculoskeletal disorders. *2014 Applied Ergonomics Conference*. Orlando, FL. Mar 24-27.
19. Peres, SC., Ritchey, P.² & **Mehta, RK.*** (2014). Software biomechanics. *2014 Applied Ergonomics Conference*. Orlando, FL. Mar 24-27.
20. **Mehta, RK.***, Shortz, AE.² (2014). Stress impacts physical competencies in older obese adults. *Poster presented at the APHA Annual Meeting & Exposition*. New Orleans, LA, Nov 15-19.
21. Cavuoto, LC.* & **Mehta, RK.** (2014). Revised endurance models for the changing workforce. *2014 Industrial & Systems Engineering Research Conference*.
22. **Mehta, RK.*** & Cavuoto, L. (2013). Workplace stress, personal factors, and occupational injuries. *2013 Applied Ergonomics Conference*. Dallas, TX. Mar 18-21.
23. Cavuoto, L.* & **Mehta, RK.** (2013). Understanding the physical capabilities of an older and more obese workforce. *2013 Applied Ergonomics Conference*. Dallas, TX. Mar 18-21.
24. **Mehta, RK.*** & Agnew, MJ. (2012). Cardiovascular reactivity to concurrent physical and mental workload. *2012 Industrial Engineering Research Conference*. Orlando, FL, May 19-23.

25. **Mehta, RK.***, Rao, A.³, Agnew, MJ. (2011). Physiological responses to physical and mental demands during intermittent work. *2011 Industrial Engineering Research Conference*. Reno, NV, May 21-25.
26. **Mehta, RK.***, Van Aken, E. (2011). Integrated program assessment in an ISE program. *2011 Industrial Engineering Research Conference*. Reno, NV, May 21 – 25.

Local/Regional Conference Presentations/Posters ¹ postdoctoral researchers; ² graduate students; ³ undergraduate students, * presenting author

27. Ritchey, P.^{2*}, **Mehta, RK.**, Peres, SC. (2017). Development and Validation of the Self-report Ergonomic Assessment Tool (SEAT). Southwest Regional HFES. San Antonio, TX, June 9.
28. Dillard, T.^{3*}, Nzoiwu, M.^{3*}, Rhee, J.¹, **Mehta, RK.** (2017). Relationship between depression and sedentary activity in college-aged adults. Poster presented at the Student Research Week, Texas A&M University, College Station, TX, Mar 27-31.
29. Srivastava, S.^{2*} & **Mehta, RK.** (2016). Developing a Fatigue Measure for Offshore Oil and Gas Operators. Poster presented at Houston HFES. Clear Lake, TX, June 3.
30. Shortz, AE.^{2*} & **Mehta, RK.** (2016). The effect of cognitive fatigue on worker perception, task performance, and neural cost. Poster presented at Houston HFES. Clear Lake, TX, June 3.
31. Rodriguez, C.^{2*} & **Mehta, RK.** (2016). fNIRS Applications in Human Factors and Ergonomics. Poster presented at Houston HFES. Clear Lake, TX, June 3.
32. Shortz, AE.^{2*} & **Mehta, RK.** (2016). Stand up for learning. Houston HFES. Clear Lake, TX, June 3.
33. Ritchey, P.^{2*} **Mehta, RK.**, Peres, SC. (2016). Validation of a New Self-Report Ergonomic Assessment Tool (SEAT) Using Surface Electromyography, Near-Infrared Spectroscopy, and Video Data. Houston HFES. Clear Lake, TX, June 3.
34. **Mehta, RK.***, Peres, SC., Pickens, A., Benden, ME., Ory, M. (2016). Ergonomics for the future workforce, or are we too late? Houston HFES. Clear Lake, TX, June 3.
35. Greene, Holden, Meingast, Smith, **Mehta, RK.** (2016). Interactive Panel Presentation. Expect the unexpected: Conducting research in challenging environments. Houston HFES. Clear Lake, TX, June 3.
36. Ritchey, P.^{2*} **Mehta, RK.**, Peres, SC. (2015). User interface biomechanics: Developing a new self-report assessment tool. Houston HFES. Houston, TX, May 29.
37. Peres, SC.* **Mehta, RK.**, Ferris, T., Riddell, M. (2015). Investigating display-related cognitive fatigue in oil and gas operations. Houston HFES. Houston, TX, May 29.
38. Peres, SC.* **Mehta, RK.**, Bewaji, O.², Brantley, S.² (2015). Exploring variables associated with users' satisfaction, performance, and physiological responses based on keyboard attributes. Poster presented at the Houston HFES. Houston, TX, May 29.
39. Tippey, K.^{2*}, **Mehta, RK.**, Ferris, T. (2015). Bridging the gap between behavioral performance metrics and subjective user ratings: A neuroergonomic approach using fNIRS. Poster presented at the Houston HFES. Houston, TX, May 29.
40. Dakuri, L.^{2*}, Pickens, A., **Mehta, RK.**, Zhao, H. (2015). Pilot validation of hEAR mobile hearing screening application in the general population. Poster presented at the Houston HFES. Houston, TX, May 29.

41. Mora, ER.^{2*}, Mapar, S.², & **Mehta, RK.** (2015). Using Closed-loop Sub-Maximum Force Control with Visual Feedback & Open-loop Maximum Force Output to Distinguish Motor-Cognitive Activation Differences in Older Adults: A NeuroErgonomic Approach. Poster presented at the 2015 Dallas Aging & Cognition Conference, Jan 25-26.
42. Ritchey, P.^{2*}, Peres, SC., & **Mehta, RK.** (2014). Software ergonomics. Poster presented at the Southwest Regional HFES. College Station, TX, June 6.
43. Shortz, AE.^{2*}, **Mehta, RK.** (2014). Neural bases of motor actions in obese and non-obese adults. Poster presented at the Southwest Regional HFES. College Station, TX, June 6.
44. **Mehta, RK.*** (2013). Mental and physical effects during fatigue. Brouha Symposium. April 22-25.
45. **Mehta, RK.*** (2013). Relationship between fatigue and cognitive function during orthostatic challenge: A neuroergonomics approach. Houston HFES. May 3. *Awarded the Best Professional Presentation.*
46. Ritchey, P.^{2*}, **Mehta, RK.** Peres, SC. (2016). Software biomechanics. Poster presented at the School of Public Health's Annual Student Poster Contest, College Station, TX, April 1.
47. Shortz, AE.^{2*}, **Mehta, RK.** Benden, ME. (2016). Stand Up for Learning. Poster presented at the School of Public Health's Annual Student Poster Contest, College Station, TX, April 1.
48. Ritchey, P.^{2*}, Peres, SC., & **Mehta, RK.** (2015). User Interface Biomechanics: Does the Interaction Design of the User Interface Impact Ergonomic Risk Factors? Poster presented at the School of Public Health's Annual Student Poster Contest, College Station, TX, April 3.
49. Shortz, AE.^{2*} & **Mehta, RK.** (2015). Neuroergonomic Evaluation of the Impact of Cognitive Fatigue on Age-Related Differences in Neuromuscular Function. Poster presented at the School of Public Health's Annual Student Poster Contest, College Station, TX, April 3.
50. Osofundiya, O.^{2*} & **Mehta, RK.** (2015). The impact of obesity in walking and dual task situations in older individuals: A prefrontal fNIRS study. Poster presented at the School of Public Health's Annual Student Poster Contest, College Station, TX, April 3.
51. Mora, ER.^{2*} & **Mehta, RK.** (2014). Imaging Brain Hemodynamics During Movement: Functional Near Infrared Spectroscopy Considerations. Poster presented at the Texas A&M Society for Neuroscience Annual Symposium, Dallas, TX, Dec 3.
52. Lee, S.^{2*}, Shortz, AE.², Yoshikawa, A.², Ory, MG., **Mehta, RK.**, Towne, SD., Howell, D., Pankey, R. (2014). Evaluating multidimensional effects of A Matter of Balance Volunteer Lay Leader Model (AMOB/VLL) among community-dwelling older adults. Poster presented at the School of Rural Public Health's Annual Student Poster Contest, College Station, TX, April 4.
53. Sewell, B.^{1*}, **Mehta, RK.**, & Agnew, MJ. (2010). Using near-infrared spectroscopy to quantify workplace stress and mental workload. Poster presented at the ISE Senior Symposium. Virginia Tech, VA, April 22.
54. **Mehta, RK.*** & Agnew, M. (2009). The effects of occupational risk factors on muscle activation and task performance. Lecture presented at the Graduate Research Symposium, Virginia Tech, March 25.
55. **Mehta, RK.*** & Agnew, M. (2008). Effect of fatigue on the aging construction workforce. Lecture presented at the Human Factors Research Symposium. Virginia Tech, October 25.

Technical Reports

1. Riccio, C. & **Mehta, RK** (2016). *Computer/Video Games, Hemodynamics, and ADHD*. Submitted to PESCA, June.
2. **Mehta, RK** (2016). *Brain imaging correlates of precision motor control in major depression*. Submitted to the Hogg Foundation for Mental Health, February.
3. Pickens, A., **Mehta, RK.**, Benden, M. (2014). *ExxonMobil Hand Activity Level*. Submitted to Exxon Mobil, February.
4. **Mehta, RK.** (2013). *Influence of Stress and Obesity on Musculoskeletal Disorders*. Submitted to Southwest Center for Occupational and Environmental Health ERC, June.
5. **Mehta, RK.** (2012). *Interactive effects of physical and mental fatigue on task performance during orthostatic challenge*. Submitted to NASA Michigan Space Grant Consortium, December.
6. **Mehta, RK.** & Van Aken, E. (2010). *Undergraduate Program Assessment Report (2009-10)*. Submitted to Grado Department of Industrial and Systems Engineering.
7. Nussbaum, MN., Agnew, MJ., Horton, LM., **Mehta, RK.**, Barker, LM., Jia, B., Kim, S. (2008). *Ergonomic comparison of hospital beds*. Submitted to Stryker Medical, August.
8. **Mehta, RK.** & Van Aken, E. (2008). *Undergraduate Program Assessment Report (2007-8)*. Submitted to Grado Department of Industrial and Systems Engineering.
9. **Mehta, RK.** & Van Aken, E. (2007). *Undergraduate Program Assessment Report (2006-7)*. Submitted to Grado Department of Industrial and Systems Engineering.
10. **Mehta, RK.** & Van Aken, E. (2006). *Undergraduate Program Assessment Report (2005-6)*. Submitted to Grado Department of Industrial and Systems Engineering.

Invited Talks/Seminars

1. **Mehta, RK.** (2017) Fatigue Risk Assessment and Management in High-Risk Environments. *Mary K O'Connor Process Safety Center Technical Advisory Committee*, April 26, Houston, TX.
2. **Mehta, RK.** (2017) NeuroErgonomics research at Texas A&M University. *Seminar Series Center for Remote Health Technologies and Systems*, February 19, Doha, Qatar.
3. **Mehta, RK.** (2017) Meeting the demands for evacuation and rescue abroad an oil and gas installation. *IADC Health, Safety, Environment & Training Conference & Exhibition*. Feb 7, Houston, TX.
4. **Mehta, RK.** (2016) Offshore worker fatigue investigations. *Ocean Energy Safety Institute Advisory Committee Meeting*. Oct 18, NASA – Clear Lake, TX.
5. **Mehta, RK.** (2016) fNIRS applications to human factors and ergonomics. *Office Ergonomics Research Committee*. May 11, Houston, TX.
6. **Mehta, RK.** (2016) Invited Master Track and Round Table presenter, Upper Extremity Musculoskeletal Disorders: Assessing Hazards and Risks on Upper Extremity Intensive Jobs. *2016 Applied Ergonomics Conference*. March 21-24, Orlando, FL.
7. **Mehta, RK.** (2016) Neuroergonomic evaluation of physical work, *Virginia Tech HFES Seminar*, 25 Feb 2016
8. **Mehta, RK.** (2016) Fatigue in Oil and Gas Operations, *Houston HFES Quarterly Meeting*,

January 2016, Houston, TX.

9. **Mehta, RK.** (2015) Does social stress impact neuromuscular functioning? *Cognoscenti Seminar Series*, Texas A&M University, College Station, Apr 6.
10. **Mehta, RK.** (2015) Invited Master Track and Round Table Panel Member for Wearable Ergonomics, Risk Assessment Tools & Technology. *18th Annual Applied Ergonomics Conference*. Nashville, TN. Mar 16-19.
11. **Mehta, RK.** (2014). Obesity, Stress, and Neuromuscular Function. *Motor Neuroscience Seminar Series*, Texas A&M University, College Station, Nov 21.
12. **Mehta, RK.** (2014). Work stress and Musculoskeletal Injuries: A NeuroErgonomics Investigation. *Texas College of Occupational and Environmental Medicine*, Fort Worth, TX, May 3.
13. **Mehta, RK.** (2013). Stress and workplace injuries: A neuroergonomics investigation. *Cognoscenti Seminar Series*, Texas A&M University, College Station, Sep 23.
14. **Mehta, RK.** (2013). Influence of Cognitive Workload on Muscle Endurance and Associated Neural Patterns. *Motor Neuroscience Seminar Series*, Texas A&M University, College Station, Apr 19.
15. **Mehta, RK.** (2012). Relationships Between Physical and Mental Fatigue and Task Performance. *The Centre of Research Expertise for the Prevention of Musculoskeletal Disorders*, Mississauga, Ontario, Canada, Dec 4.
16. **Mehta, RK.** (2012). Neural correlates of physical and mental fatigue. *Department of Industrial and Systems Engineering Seminar Series*. University at Buffalo (SUNY), Buffalo, NY, Nov 9.
17. **Mehta, RK.** (2012). Physical and Cognitive Neuroergonomics. *Human Factors and Applied Cognition Seminar Series*. George Mason University, Fairfax, VA, Aug 29.
18. **Mehta, RK.** (2012). Neuroergonomics applications to occupational health research. *Biological Sciences Seminar Series*. Michigan Tech, Houghton, MI, Mar 15.

Select Media Features

1. **Safety + Health, National Safety Council** (April 2017: <http://www.safetyandhealthmagazine.com/articles/15541-researchers-call-for-more-focus-on-ergo-guidelines-for-overweight-obese-workers>), Researchers call for more focus on ergo guidelines for overweight, obese workers.
2. **New Scientist** (October 2016: 232.3095: 28-32), Dead on your feet: why are we all so tired all the time?
3. **US News and World Ranking** (May 2016: <http://health.usnews.com/wellness/slideshows/6-ways-obesity-can-weigh-on-the-brain>) Six ways obesity can weigh on your brain
4. **The Globe and Mail** (Jan 2016: <http://www.theglobeandmail.com/life/health-and-fitness/health/stand-up-desks-may-improve-students-brain-function-study-finds/article28230280/>) Stand-up desks may improve students' brain function, study finds
5. **Forbes** (Jan 2016: <http://www.forbes.com/sites/daviddisalvo/2016/01/18/using-a-standing-desk-could-give-your-brain-a-boost/#117e9691ed77>) Using a standing desk could give your brain a boost.
6. **BYU Radio** (July 2015: <http://www.byuradio.org/episode/8dfc3d52-6138-4f41-bcd7->

d60447c7289f?playhead=3943&autoplay=true), Body and the Brain

7. **KBTX News@4** (February 2015: <http://www.kbtx.com/home/headlines/Phone-Use-Could-Lead-to-Text-Neck-Issues-290597031.html>), Phone Use Could Lead to 'Text Neck' Issues
8. **The Ledger** (Feb 2015: <http://www.theledger.com/article/20150208/NEWS/150209438/0/search?p=1&tc=pg>), Smartphone Use Is Creating Text Neck
9. **The Eagle** (January 2015: http://www.theeagle.com/news/local/texas-a-m-professor-don-t-let-your-smartphone-become/article_943f1193-562d-5630-8d26-4356d178b1d4.html), Texas A&M professor: Don't let your smartphone become a pain in your neck
10. **Men's Health** (January 2012: <http://news.menshealth.com/stress-workout-tips/2012/01/24/>), Does stress sabotage your workouts?
11. **Shape Magazine** (November 2012: <http://www.shape.com/lifestyle/mind-and-body/31-days-fitter-healthier-you?page=11>), Brain vs. Brawn

Professional Affiliations

- Human Factors and Ergonomics Society (HFES)
- American Society of Safety Engineers (ASSE)
- Institute of Industrial and Systems Engineers (IISE)
- American Public Health Association (APHA)
- Society for Neuroscience (SfN)

Service

Editorial Activities

- Editorial board, *Work: A Journal of Prevention, Assessment and Rehabilitation*, 2012 – 2016
- Associate Editor, *Human Factors and Ergonomics in Manufacturing & Service Industries*, 2017 – present
- Guest Editor, “*Integrating Physical and Cognitive Ergonomics*”, IISE Transactions on Occupational Ergonomics and Human Factors, 4:2-3, 83-87

Grant Reviewer

- National Institutes of Health – Aging Systems and Geriatrics, 2016
- National Science Foundation (NSF) Graduate Research Fellowship, 2015
- National Natural Science Foundation of China & Texas A&M University, 2013

Journal Reviewer

 reviewed 50+ manuscripts from 2012 – present

Reviewer for *Scientific Reports*, *Applied Ergonomics*, *Clinical Biomechanics*, *Ergonomics*, *European Journal of Applied Physiology*, *Experimental Brain Research*, *Fatigue: Biomedicine, Health & Behavior*, *Human Factors*, *IEEE Journal of Biomedical and Health Informatics*, *IEEE Transactions on Biomedical Engineering*, *IIE Transactions on Occupational Ergonomics and Human Factors*, *International Journal of Industrial Ergonomics*, *International Journal of Obesity*, *Journal of NeuroEngineering and Rehabilitation*, *Journal of Physiological Anthropology*, *Journal of Visualized Experiments*, *PLOS ONE*, *Sports Science for Health*, *Transportation Research*

External Reviewer for Dissertation/Thesis

- PhD Dissertation, Kinesiology, McMaster University, Canada, 2014
- MS Thesis, Human Kinetics & Ergonomics, Rhodes University, South Africa, 2016

Professional & Conference Service/Leadership

- Program Chair, Aging Technical Group, *Human Factors and Ergonomics Society Annual Conference*, 2017
- Member, Alphonse Chapanis Student Paper Award Selection Committee, *Human Factors and Ergonomics Society Annual Conference*, 2017
- Member, Program Committee, *Applied Ergonomics Conference*, 2014 – present
- Member, Publications Committee, *Human Factors and Ergonomics Society*, 2013 – 2015
- Secretary, *Houston Human Factors and Ergonomics Society*, 2014
- Program Co-Chair, Human Factors and Ergonomics Track, *Industrial & Systems Engineering Research Conference*, 2014
- Reviewer, conference proceedings, *Human Factors and Ergonomics Society Annual Conference*, 2011 – present
- Reviewer, conference proceedings, *Institute of Industrial and Systems Engineers Annual Conference*, 2011 – 2015
- Reviewer, conference abstracts, *Applied Ergonomics Conference*, 2014 – present

Institutional Service

Texas A&M University

- Faculty Advisor, *Human Factors and Ergonomics Society Student Chapter*, Texas A&M, 2014 – present
- School of Public Health representative, Honors and Undergraduate Research Advisory Committee (HURAC), 2015 – present
- Chair, Curriculum Committee, School of Public Health, 2014 – 2016
- Member, Undergraduate Program Committee, Texas A&M Institute for Neuroscience, 2014 – 2016

Michigan Technological University

- Member, Applied Cognitive Science and Human Factors graduate program committee, Cognitive and Learning Sciences, 2011 – 2012
- Member, Graduate curriculum committee, Kinesiology & Integrative Physiology, 2011 – 2012
- Organizer, Human Factors Seminar Series, Cognitive and Learning Sciences, 2011 – 2012

Virginia Tech

- Chair, Graduate Research Development Program, Graduate Student Association, 2010 – 2011
- Graduate student representative, Commission on Faculty Affairs, University Council, 2010 – 2011
- President, *Human Factors and Ergonomics Society Student Chapter*, Virginia Tech, 2009
- President, *American Society of Safety Engineers Student Chapter*, Virginia Tech, 2010
- Member, Undergraduate Assessment Committee, Industrial and Systems Engineering, 2006 – 2009
- Member, Undergraduate Curriculum Committee, Industrial and Systems Engineering, 2006 – 2008