

Stacey Lynn Gorniak, Ph.D., F.A.H.A.

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ACADEMIC APPOINTMENTS

University of Houston, Houston, TX

Professor of Motor Behavior, Department of Health and Human Performance (September 2025 – present)

Associate Professor, Department of Health and Human Performance (September 2017 – August 2025)

Assistant Professor, Department of Health and Human Performance (August 2011 – August 2017)

Fellow, American Heart Association (F.A.H.A.) (May 2019 – present)

Affiliate, HEALTH Research Institute, University of Houston (June 2019 – present)

Director, Investigator Development Core, Helping Everyone Achieve a LifeTime of Health (HEALTH) Center for Addictions Research and Cancer Prevention - National Institutes of Health National Institute on Minority Health and Health Disparities (NIH NIMHD) Research Centers in Minority Institutions (RCMI, U54MD015946). (September 2023 – present)

Director, Center for Neuromotor and Biomechanics Research, Department of Health and Human Performance (February 2017 – August 2021)

Houston Methodist Hospital, Houston, TX

Visiting Scientist, Center for the Performing Arts Medicine, Department of Orthopedics (January 2014 – September 2017)

Cleveland Clinic, Cleveland, OH

Post-doctoral Fellow, Department of Biomedical Engineering – Lerner Research Institute (August 2009 - August 2011)

EDUCATION

Ph.D. in Kinesiology (Concentration: Biomechanics & Motor Control; Minor: Statistics), Department of Kinesiology, Pennsylvania State University, University Park, PA (August 2009)

Dissertation: Hierarchical Control of Bimanual Tasks

Committee: Mark Latash, Vladimir Zatsiorsky, Arkady Templeman, Steven Piazza

M.S. in Kinesiology (Concentration: Biomechanics & Motor Control), Department of Kinesiology, Pennsylvania State University, University Park, PA (August 2006)

Thesis: Hierarchies of Synergies: An Example of Two-Hand Multi-finger Tasks

Committee: Mark Latash, Vladimir Zatsiorsky, Robert Sainburg

B.S. in Physics, School of Science, Pennsylvania State University – Erie, The Behrend College, Erie, PA (May 2004)

PROFESSIONAL LICENSURE

1. **Certified Phlebotomy Technician (C.P.T.)** – American Certification Agency for Healthcare Professionals, Certificate #007730 (July 2022 – current)
2. **Operator Certification** for Hologic Horizon A X-ray Bone Densitometer (DXA) in the State of Texas - Houston, TX (December 2018 – present)
3. **Operator Certification** for Hologic Discovery X-ray Bone Densitometer (DXA) in the State of Texas - Houston, TX (December 2011 – November 2018)

PATENT APPLICATIONS

1. **PPA UHID 2014-009**: Systems and Method to Determine Subclinical Neurological and Orthopedic Deficits in Hand Function (Disclosed 3/14/2014). Invention returned to PI on 10/12/2014.
2. **PPA UHID 2023-032**: Early Detection of Dementia via Wearable Neuroimaging Devices (Disclosed 3/9/2023; US Patent Application No. 63/460,237 filed 4/18/2023). Converted to NPA on 2/27/2024.
3. **PPA UHID 2024-053**: System to Improve Signal Quality in Non-Invasive Neuroimaging Modalities (Disclosed 3/19/2024; US Patent Application No. 63/633,022 filed 4/11/2024). PCT application (PCT/US2025/024299) filed on 4/11/2025.
4. **PPA UHID 2025-TBD**: System to Improve Signal Quality in Non-Invasive Neuroimaging Modalities without Adhesives (Disclosed 11/18/2025).

CLINICAL TRIALS (as Primary Investigator)

1. **NCT TBD** - Hormones, Outcomes, and Pain Pathways in Exercise Study (December 2025 – January 2030). Sponsor: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
2. **NCT05456594** - Comparing Sports Bra Design in Full Busted Women (June 2022 – January 2023). Sponsor: Bounceless LLC

OTHER PROFESSIONAL EXPERIENCE

Research Assistant, Department of Kinesiology, Pennsylvania State University, University Park, PA (May 2007 – August 2009)

Graduate/Teaching Assistant, Department of Kinesiology, Pennsylvania State University, University Park, PA (August 2004 - May 2007)

Women in Science (WISE) & Minority College Experience (MCE) Student Coordinator, Student Affairs, Pennsylvania State University – Erie, The Behrend College, Erie, PA (Summer 2004)

Volunteer Student Intern, Motion Analysis Laboratory, Shriners Hospital for Children, Erie, PA (December 2002 – May 2004)

Supplemental Instruction Leader, Learning Resource Center, School of Science, Pennsylvania State University – Erie, The Behrend College, Erie, PA (August 2002 – May 2004)

Undergraduate Research Fellow, National Science Foundation (NSF) Research Experience for Undergraduates (REU) Summer Internship – Research for Undergraduates in Biomechanics, Imaging, and Neuroscience (RUBIN) Program, University of Rochester, Rochester, NY (Summer 2003)

Student Researcher, School of Science, Pennsylvania State University – Erie, The Behrend College, Erie, PA (Summer 2002)

PUBLICATIONS

Peer-Reviewed Journal Articles (Web of Science H-Index = 20, Google Scholar i10-index = 27)

1. Kenworthy, S.A., **Gorniak, S.L.** (2026). Trailing limb angle as a clinically feasible measure of propulsion: A state-of-the-art review. *Gait & Posture*. (in press)
2. ***Gorniak, S.L.**, Pollonini, L. (2026). Developing an Inclusive Approach to fNIRS Research in Women of Color. *Neurophotonics*. 13(Suppl 1):S13003. doi: 10.1117/1.NPh.13.S1.S13003. PMID: 40950528
3. *Gulley-Cox, L.I., Dias, N., Zhang, C., Zhang, Y., **Gorniak, S.L.** (2025). Impact of aging and body mass index on upper extremity motor unit number index and size. *Experimental Biology and Medicine*. 250:1049. doi: 10.3389/ebm.2025.10491. PMID: 40776977
4. Chang, S.P., Braun, K.L., Yanagihara, R., De Heer, H., Wu, Y.Y., Chen, Z., Cox, M., **Gorniak, S.**, Haddad, G., Hohmann, C.F., Lee, E.S., Samuel, T., Stiles, J.K., Teufel-Shone, N., Nerurkar, V.R. (2025). Science Speed Dating to Spur Inter-Institutional Collaborative Research. *International Journal of Environmental Research and Public Health* 22(6): 919. doi: 10.3390/ijerph22060919. PMID: 40566345
5. *Yazdekhasti, S., LaVoy, E.C., **Gorniak, S.L.** (2025). Assessing Breast Acceleration While Using Sports Bras and Conventional Bras: A Comparative Analysis of Measurement Techniques. *Journal of Biomechanics*. 183: 112640. doi: 10.1016/j.jbiomech.2025.112640. PMID: 40132245
6. *Clement, A., Yazdekhasti, S., LaVoy, E.P., **Gorniak, S.L.** (2025). Evaluating the effects of sports bra design, body composition, metabolic markers, and sex-hormones on kinetic measures of postural control in full-busted women during physical activity. *Journal of Applied Biomechanics*. 41(3): 223-232. doi: 10.1123/jab.2024-0063. PMID: 40101740
7. *Gulley-Cox, L.I., Dias, N., Zhang, C., Zhang, Y., **Gorniak, S.L.** (2025). Effects of Type II Diabetes on upper extremity muscle characteristics in older adults. *Neuroscience Letters*. 844: 138039. doi: 10.1016/j.neulet.2024.13803. PMID: 39549828

8. Hibino, H., **Gorniak, S.L.** (2024). Reduced Hand Sensory and Motor Function in Persons Living with Heart Failure. *PLoS One*. doi: 10.1371/journal.pone.0312468. 19(11):e0312468. PMID: 39546439
9. ***Gorniak, S.L.**, Meng, H., Yazdekhashti, S., Pollonini, L. (2024). Correlation between subcutaneous adipose tissue of the head and body mass index in children and young adults aged 8-19 years: Implications for functional neuroimaging. *Experimental Biology & Medicine* Feb 8:249:10030. doi: 10.3389/ebm.2024.10030. PMID: 38496331
10. *Gulley-Cox, L.I., Dias, N., Zhang, C., Zhang, Y., **Gorniak, S.L.** (2023). Effects of Type II Diabetes on proprioception during a reach to pinch task to a virtual target in older adults. *Journal of Motor Behavior*. 56(3):263-274. doi: 10.1080/00222895.2023.2285888. PMID: 37997260
11. *Hibino, H., **Gorniak, S.L.** (2023). Future Directions in Understanding Functional Impairment in Heart Failure. *21st Century Cardiology*. 2023 August; 3(4):139.
12. ***Gorniak, S.L.**, Wagner, V., Vaughn, K., Perry, J., Gulley Cox, L.I., Hibino, H., Hernandez-Montero, S.A., Hernandez, A., Pollonini, L., (2023). Use of Functional Near Infrared Spectroscopy to Detect Cortical Activation Changes Concurrent with Memory Loss in Postmenopausal Women with Type II Diabetes. *Experimental Brain Research*. 241(6): 1555-1567. doi: 10.1007/s00221-023-06581-1. PMID: 37127798.
13. ***Gorniak, S.L.**, Meng, H., Pollonini, L. (2022). Correlation between subcutaneous adipose tissue of the head and body mass index: Implications for functional neuroimaging. *Human Movement Science*. 85: 102997. doi: 10.1016/j.humov.2022.102997. PMID: 36041254.
14. *Meng, H., **Gorniak, S.L.** (2022). Obesity is associated with gait alterations and gait asymmetry in older adults. *Motor Control*. 27(1): 6-19. doi: 10.1123/mc.2021-0125. PMID: 35393368.
15. Hibino, H., **Gorniak, S.L.** (2022). Dependence & Reduced Motor Function in Heart Failure: Future Directions for Well-Being. *Heart Failure Reviews*. 27: 1043-1051. doi: 10.1007/s10741-021-10145-2. PMID: 34302579.
16. DiBello, S.A., Wurdeman, S.R., **Gorniak, S.L.** (2021). Orthotic Research Initiative for Outcomes Analysis (ORION I): predictors of PROMIS PF for stroke survivors seeking orthotic intervention. *Disability and Rehabilitation*. 2: 1-6. doi: 10.1080/09638288.2021.1971306. PMID: 34473570
17. Chandrasekaran, S., Hibino, H., **Gorniak, S.L.**, Layne, C.S., Johnston, C.A. (2021). Fear of Falling: Significant Barrier in Fall Prevention Approaches. *American Journal of Lifestyle Medicine*. 5(15): 598-601. PMID: 34916878.
18. ***Gorniak, S.L.**, Ochoa, N., Gulley Cox, L.I., Khan, A., Ansari, S., Thames, B.H., Ray, H., Lu, F.Y., Hibino, H., Watson, N., Dougherty, P.M. (2020). Sex-Based Differences and Aging in Tactile Function Loss in Persons with Type 2 Diabetes. *PLoS One*. 15(11): e0242199. doi: 10.1371/journal.pone.0242199. PMID: 33180801.

19. *Meng, H., **Gorniak, S.L.** (2020). Effects of adiposity on postural control and cognition in older adults. *Gait & Posture*. 82: 147-152. doi: 10.1016/j.gaitpost.2020.09.004. PMID: 32927221.
20. ***Gorniak, S.L.**, Wagner, V.E., Vaughn, K., Perry, J., Gulley Cox, L.I., Hernandez, A.E., Pollonini, L., (2020). Functional neuroimaging of sensorimotor cortices in postmenopausal women with Type II Diabetes. *Neurophotonics*. 7(3): 035007. doi: 10.1117/1.NPh.7.3.035007. PMID: 32905073.
21. *Hibino, H., **Gorniak, S.L.** (2020). Effects of aging on rapid grip force responses during bimanual manipulation of an active object. *Experimental Brain Research*. 238(10): 2161-2178. doi: 10.1007/s00221-020-05865-0. PMID: 32661648.
22. Arlinghaus, K., **Gorniak, S.L.**, Hernandez, D.C., Johnston, C.A. (2020). Impact of Hurricane Harvey on the Growth of Low Income, Ethnic Minority Adolescents. *Disaster Medicine and Public Health Preparedness*, 1-8. PMID: 33161933.
23. *Pollonini, L., Gulley Cox, L., **Gorniak, S.L.** (2020). Hemodynamic function of forearm muscle in postmenopausal women with Type II Diabetes. *Journal of Aging and Physical Activity*. 21: 1-8. doi: 10.1123/japa.2019-0221. PMID: 32315982.
24. ***Gorniak, S.L.**, Ray, H., Lee, B.C., Wang, J. (2019). Cognitive-motor Impairment in Manual Tasks in Adults with Type 2 Diabetes. *OTJR: Occupation, Participation and Health*. 40(2): 113-121. doi: 10.1177/1539449219880536. PMID: 31658863.
25. ***Gorniak, S.L.** (2019). The relationship between task difficulty and behavioral complexity. *Attention, Perception, & Psychophysics*. 81(1): 12-19. doi: 10.3758/s13414-018-1634-4. PMID: 30506324.
26. ***Gorniak, S.L.**, Lu, Y.F., Lee, B.C., Massman, P., Wang, J. (2019). Cognitive impairment and postural control deficits in adults with Type II Diabetes. *Diabetes/Metabolism Research and Reviews*. 35(2): e3089. doi: 10.1002/dmrr.3089. PMID: 30338902.
27. ***Gorniak, S.L.**, Collins, E.D., Goldie Staines, K., Brooks, F.A., Young, R.V. (2019). The impact of musical training on hand biomechanics in string musicians. *HAND*. 14(6): 823-829. doi: 10.1177/1558944718772388. PMID: 29696994.
28. **Gorniak, S.L.**, Johnston, C.A. (2018). The Need for Innovative Methods to Increase Adherence in Individuals Experiencing Cognitive Decline. *American Journal of Lifestyle Medicine*. 12(4): 291-294. PMID: 32063812.
29. Gulley, L.I., **Gorniak, S.L.**, Layne, C.S. (2017). Effects of vibration training on elbow joint position sensing. *Physical Medicine and Rehabilitation Research* ISSN: 2398-3353.
30. *Pollonini, L., Younes, L., **Gorniak, S.L.**, (2017). Hemodynamic function of forearm flexors during finger force production tasks in healthy adults. *Muscle & Nerve*. 56(3): 472-478. doi: 10.1002/mus.25499. PMID: 27935081.

31. *Thames, B., **Gorniak, S.L.** (2017). Coefficient of friction at the fingertips in Type II Diabetics compared to healthy adults. *Journal of Applied Biomechanics*. 33(3): 185-188. doi: 10.1123/jab.2016-0147. PMID: 27918701.
32. *Meng, H., O'Connor, D.P., Lee, B.C., Layne, C.S. **Gorniak, S.L.** (2017). Alterations in over-ground walking patterns in obese and overweight adults. *Gait & Posture*. 53: 145-150. doi: 10.1016/j.gaitpost.2017.01.019. PMID: 28157576.
33. *Ochoa, N., Gogola, G.R., **Gorniak, S.L.** (2016). Contribution of tactile sensory function to fine motor dysfunction in Type II Diabetes. *Muscle & Nerve*. 54: 895-902. doi: 10.1002/mus.25137. PMID: 27061801.
34. *Meng, H., O'Connor, D.P., Lee, B.C., Layne, C.S., **Gorniak, S.L.** (2016). Effects of adiposity on postural control and cognition. *Gait & Posture* 43: 31-37. doi: 10.1016/j.gaitpost.2015.10.012. PMID: 26669948.
35. *Khan, A., **Gorniak, S.L.** (2016). Effects of force requirements on pinch force production in healthy young adults. *Motor Control* 20(3): 299-315. doi: 10.1123/mc.2014-0081. PMID: 26407451.
36. Goldie Staines, K., **Gorniak, S.**, Brooks, F., Collins, E. (2016). A Pilot Comparison of Peak Hand Force in Musicians Using the Peg Retrained Intrinsic Muscle Evaluator (PRIME). *Journal of Hand Therapy*. 29(3): 383.
37. *Madansingh, S., **Gorniak, S.L.** (2015). Using non-linear tools to evaluate movement of fragile objects. *Journal of Applied Biomechanics* 31(2): 95-101. doi: 10.1123/jab.2014-0056. PMID: 25386733.
38. *Ochoa, N., **Gorniak, S. L.** (2014). Changes in sensory function and force production in adults with Type II Diabetes. *Muscle & Nerve* 50(6): 984-990. doi: 10.1002/mus.24261. PMID: 24710967.
39. ***Gorniak, S.L.**, Khan, A., Ochoa, N., Sharma, M.D., Phan, C.L. (2014). Detecting subtle fingertip sensory and motor dysfunction in adults with Type II Diabetes. *Experimental Brain Research* 232(4): 1283-1291. doi: 10.1007/s00221-014-3844-x. PMID: 24468726.
40. ***Gorniak, S.L.**, Plow, M., McDaniels, C., Alberts, J.L. (2014). Impaired object handling during bimanual task performance in Multiple Sclerosis. *Multiple Sclerosis International* 2014: 450420. doi: 10.1155/2014/450420. PMID: 25170424.
41. ***Gorniak, S.L.**, McIntyre, C.C., Alberts, J.L. (2013). Bimanual force coordination in Parkinson's disease patient with bilateral subthalamic deep brain stimulation. *PLoS One* 8(11): e78934. doi: 10.1371/journal.pone.0078934. PMID: 24244388.
42. ***Gorniak, S.L.**, Alberts, J.L. (2013). Effects of aging on force coordination in bimanual tasks. *Experimental Brain Research* 229(2): 273-284. doi: 10.1007/s00221-013-3644-8. PMID: 23852325.

43. ***Gorniak, S.L.**, Machado, A., Alberts, J.L. (2013). Force coordination during bimanual task performance in Parkinson's disease. *Experimental Brain Research* 229(2): 261-271. doi: 10.1007/s00221-013-3608-z. PMID: 23811728.
44. ***Gorniak, S.L.**, Alberts, J.L. (2013). Effects of task complexity on grip-to-load coupling in bimanual actions. *Experimental Brain Research* 225(4): 559-567. doi: 10.1007/s00221-012-3395-y. PMID: 23307159.
45. ***Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. (2011). Manipulation of a fragile object by elderly individuals. *Experimental Brain Research* 212(4): 505-516. doi: 10.1007/s00221-011-2755-3. PMID: 21667292.
46. **Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. (2010). Manipulation of a fragile object. *Experimental Brain Research* 202(2): 413-430. doi: 10.1007/s00221-009-2148-z. PMID: 20043148.
47. **Gorniak, S.L.**, Feldman, A.G., Latash, M.L. (2009). Joint coordination during bimanual transport of real and imaginary objects. *Neuroscience Letters* 456(2): 80-84. doi: 10.1016/j.neulet.2009.03.084. PMID: 19429138.
48. **Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. (2009). Hierarchical control of prehension: II. Multi-digit synergies. *Experimental Brain Research* 194(1): 1-15. doi: 10.1007/s00221-008-1663-7. PMID: 19048236.
49. **Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. (2009). Hierarchical control of prehension: I. Biomechanics. *Experimental Brain Research* 193(4): 615-631. doi: 10.1007/s00221-008-1662-8. PMID: 19066870.
50. Latash, M.L., **Gorniak, S.L.**, Zatsiorsky, V.M. (2008). Hierarchies of Synergies in Human Movements. *Kinesiology* 40(1): 29-38. doi: 10.1007/s00221-008-1663-7. PMID: 20354578.
51. **Gorniak, S.L.**, Duarte, M., Latash, M.L. (2008). Do synergies improve accuracy? A study of speed-accuracy trade-offs during finger force production. *Motor Control* 12(2): 151-172. doi: 10.1123/mcj.12.2.151. PMID: 18483449.
52. **Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. (2007). Emerging and Disappearing Synergies in a Hierarchically Controlled System. *Experimental Brain Research* 183(2): 259-270. doi: 10.1007/s00221-007-1042-9. PMID: 17703288.
53. **Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. (2007). Hierarchies of Synergies: An Example of Two-Hand, Multifinger Tasks. *Experimental Brain Research* 179(2): 167-180. doi: 10.1007/s00221-006-0777-z. PMID: 17103206.

[* denotes S.L. Gorniak as the corresponding author]

Manuscripts Under Review

1. *Meng, H., **Gorniak, S.L.** (2026). Cognitive Decline Outweighs Adiposity in Influencing Lower Limb Gait Kinematics in Older Adults. *Gait & Posture*. - Submitted 8/27/25.

2. *Yazdekhosti, S., Maddox, R.M., LaVoy, E.P., **Gorniak, S.L.** (2026). Anthropometric and Physiological Predictors of Upper Body Muscle Activity in Women with Larger Breasts During Gait. *Exercise, Sport, & Movement*. - Submitted 10/15/25.
3. Crane, J.C., Hodgman, C.F., Maddux, R.M., Laughlin, M. **Gorniak, S.L.**, Caslin, H.L., LaVoy, E. (2026) The Impact of Cardiorespiratory Fitness on Cytotoxic T Cell Metabolism and Function. *Medicine & Science in Sports & Exercise*. - Submitted 11/12/25.
4. *Kenworthy, S.A., **Gorniak, S.L.** (2026). Timing is Everything: The Effect of Measurement Timing on the Validity of Trailing Limb Angle in Gait Analysis. *Medicine & Science in Sports & Exercise*. - Submitted 11/12/25.
5. *Yazdekhosti, S., Maddox, R.M., Philip, K.M., LaVoy, E.P., **Gorniak, S.L.** (2026). Hormonal and Mental Health Influences on Musculoskeletal Pain and Mastalgia in Physically Active Women. *Journal of Neurophysiology*. - Submitted 11/24/25.

[* denotes S.L. Gorniak as the corresponding author]

Manuscripts in Preparation

1. ***Gorniak, S.L.**, Chen, T.A., Woodward, L., Carmack, C., Reitzel, L., Obasi, E., Beech, B.M. (2026). Synergistic Impacts of Investigator Development Core and Community Engagement Core Collaboration to Support RCMI Pilot Grant Program Awardees. *Health Behav Policy Rev*.
2. Strekalova, Y.A.L, **Gorniak, S.L.**, Wang, H., Noubissi, J.K., Báez, A, Stiles, J.K., Mubasher, M., Ofili, E.O. Building Capacity for Rigorous Health Research through Grant Writing Coaching. *Int. J. Environ. Res. Public Health*.
3. *Hibino, H., **Gorniak, S.L.** (2026). Relationship between mood and cognitive-sensorimotor dysfunction in persons with Type II Diabetes. *TBD*.
4. *Hibino, H., **Gorniak, S.L.** (2026). Cognitive impairments and functional motor ability in persons with Heart Failure. *TBD*.
5. *Hoang, H.C., **Gorniak, S.L.** (2026). Relationship among IL-6, bone mineral density, and sleep quality in perimenopausal women. *TBD*.
6. *Mauriello, H., **Gorniak, S.L.** (2026). Influence of overnight light exposure on working memory function in perimenopausal women. *TBD*.

MASS MEDIA COVERAGE

1. **Gorniak, S.L.** Prevention of skiing-related orthopedic injuries. Texas Orthopedic Hospital & HCA Healthcare (in production – expected December 2025).
2. **Gorniak, S.L.** Understanding the Science Behind “Immortality”. NBC News Now with Gadi Schwartz, NBC News Universal (September 4, 2025).

3. **Gorniak, S.L.** Medical Research and Persons Who Menstruate. Amplified Houston! KPFT 90.1FM, Houston, TX (March 2024).
4. Fickman, L. "UH project strives to improve dementia diagnosis for underrepresented women". October 24, 2023. <https://www.uh.edu/news-events/stories/2023/october-2023/10242023-gorniak-dementia-women-diabetes.php>
5. Holden, J. "CLASS researchers partner with former athlete in bounce reduction study." January 5, 2023. <https://uh.edu/class/news/archive/2023/january/class-researchers-partner-with-former-athlete-in-bounce-reduction-study/>
6. Industry partnership mentioned in: Osborne, D. "Ex-Athlete Builds Bounceless, a Sports Bra For The Fuller Woman". October 28, 2022. The Black Wall Street Times. <https://theblackwallsttimes.com/2022/10/28/ex-athlete-builds-bounceless-a-sports-bra-for-the-fuller-woman/>
7. Fickman, L. "Older Women with Type 2 Diabetes Have Different Patterns of Blood Use in Their Brains". September 8, 2020. <https://uh.edu/news-events/stories/2020/september-2020/09082020-stacy-gorniak-diabetes-menopausal-women-brain-blood.php>
8. Radio Interview, "Houston Matters". *Houston Public Media News*. National Public Radio, 88.7 – KUHF. December 8, 2014. <http://www.houstonmatters.org/segments/segment-c/2014/12/08/study-examines-the-effects-of-diabetes-on-motor-skills>
9. Ramirez, M. "Type 2 Diabetes May Lead to Short-Term Memory Loss", *UH News & Events*. November 18, 2014. <http://www.uh.edu/news-events/stories/2014/November/1118DiabetesMemory.php>
10. Ramirez, M. "Research on Type 2 Diabetes Examines Damage to Hand Function", *UH News & Events*. February 27, 2014.

RESEARCH SUPPORT

Research Funding Obtained

Gorniak, S.L. (PI), Chen, T.A., LaVoy, E.P., Pollonini, L., Philip, K.M., Morshedzadeh, E., Urban, R.J. "Mechanical and non-mechanical contributions to chronic neck, shoulder, arm, and back pain in full-busted women" R01 Research Project Grant – Clinical Trial, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) **R01AR084021** (September 2025 – August 2029) *Total budget:* \$2,142,143 (IDC: \$742,214).

Gorniak, S.L. (PI), Alfano, C., Chen, T.A., LaVoy, E.P., Mathew, R., Pollonini, L., Woods, S.P., Urban, R.J. "Cortical Complications of Perimenopause and Obstructive Sleep Apnea in Underrepresented Middle-Aged Women with Type 2 Diabetes" R56 Research Project Grant, National Institute on Aging (NIA), **R56AG080816**, (October 2023 – September 2026) *Total budget:* \$1,367,914 (IDC: \$417,211).

Ezemenari, O., Beech, B., Reitzel, L. Nesic-Taylor, O., Merchant, F., **Gorniak, S.L. (Co-I, IDC Director)**, Woodward, L. Zvolensky, M. "Helping Everyone Achieve a LifeTime of Health (HEALTH) Center for Addictions Research and Cancer Prevention" U54 Research Centers in Minority

Institutions (RCMI) Program. Sponsored by the National Institute on Minority Health and Health Disparities (NIMHD) **U54MD015946**, (September 2020 – May 2026) *Total budget*: \$15,127,481 (IDC: \$5,492,143). <https://www.healthrcmi.com/>

Gorniak, S.L. (PI). “Comparing Sports Bra Design in Full Busted Women” Bounceless – Industry Funded Project (June 2022 – January 2023). *Total Budget*: \$7,380 (IDC: \$0).

Gorniak, S.L. (PI), LaVoy, E.P., Pollonini, L., Woods, S.P. “Functional Cortical Deficits and Cortical Hemodynamic Changes in Minority Older Adults with Type II Diabetes” Health Research Institute, University of Houston. (September 2019 – August 2020). *Total Budget*: \$29,927 (IDC: \$0).

Gorniak, S.L. (Co-I, PI of UH Subcontract), Guindani, M., Lu, X., Dougherty, P., “The role of ENF loss, TLR4 and spinal plasticity in paclitaxel chemotherapy induced peripheral neuropathy (CIP),” R01 Research Project Grant, National Institutes of Health – National Cancer Institute (NCI) (June 2016 – May 2021) *Subcontract Budget*: \$337,890 (IDC: \$113,378 (50.5%)) (Parent award **R01CA200263** for \$2,414,415; PI Patrick Dougherty, University of Texas MD Anderson Cancer Center).

Gorniak, S. L. (PI), Hernandez, A., O’Connor, D.P., Pollonini, L. “Elucidating the relationship between cortical hemodynamics and mild cognitive impairment in adults with Type II Diabetes,” Beginning Grant-in-Aid Program, American Heart Association. (January 2016 – October 2018 (NCE)) *Total budget*: \$139,162 (IDC: \$12,726) (Award #**16BGIA27250047**).

Gorniak, S.L. (PI). “Evaluating Motor Unit Dysfunction in Patients with Type II Diabetes,” Grants to Enhance and Advance Research Program, Division of Research (DOR), University of Houston (June 2016 – August 2017). *Total Budget*: \$28,314 (IDC: \$0) (DOR Grant #111820).

Leister, K. (PI), **Gorniak, S.L. (Co-I, mentor)**, Wurdeman, S. “Plantar foot temperatures difference between transtibial amputees with type 2 diabetes and non-amputated type 2 diabetics” Orthotic and Prosthetic Education and Research Foundation (OPERF) Fellowship Grant – Revision. (April 2017 – March 2018). *Total Budget*: \$4,906 (IDC: \$0).

Gorniak, S.L. (PI). “Interaction of Postural Stability, Cognitive Function, and Body Composition in Overweight and Obese Individuals,” HHP Summer Research Program, Department of Health and Human Performance, University of Houston (May 2014 - September 2014) *Total Budget*: \$3,500 (IDC: \$0) (Unnumbered).

Gorniak, S.L. (PI). “Comparing the Effects of Duration and Severity of Type II Diabetes on Upper Extremity Function to Healthy Individuals,” Small Grants Program, Division of Research, University of Houston (January 2013 - August 2013) *Total Budget*: \$3,000 (IDC: \$0) (Unnumbered).

Gorniak, S.L. (PI). “Cortical and Cognitive-Motor Function in Type II Diabetes,” HHP Summer Research Program, Department of Health and Human Performance, University of Houston (May 2012 - September 2012) *Total Budget*: \$10,000 (IDC: \$0) (Unnumbered).

Gorniak, S.L. (PI). “Effects of Duration & Severity of Type II Diabetes on Upper Extremity Function,” New Faculty Grant Program, Division of Research, University of Houston (January 2012 - August 2012) *Total Budget*: \$6,000 (IDC: \$0) (Unnumbered).

Gorniak, S.L. (PI). NIH Loan Repayment Program, National Institute of Neurological Disorders and Stroke – NINDS, National Institutes of Health (October 2010 - September 2013) *Total Budget:* \$13,123 (IDC: \$0).

Gorniak, S.L. (PI). Kinesiology Fund for Excellence in Graduate Recruiting, Department of Kinesiology, The Pennsylvania State University, University Park, PA (May 2005 - August 2005) *Total Budget:* \$3,500 (IDC: \$0) (Unnumbered).

Research Funding Applications Under Review

Beech, B., Merchant, F., **Gorniak, S.L. (Co-I, IDC Director)**, Carmack, C., Zvolensky, M., Zhang, S. “CARE (Chronic disease and Advancing Research and Equity) Center for Addictions Research and Cancer Prevention” U54 Research Centers in Minority Institutions (RCMI) Program Renewal (RFA-MD-24-012). Sponsored by the National Institute on Minority Health and Health Disparities (NIMHD), (April 2026 – March 2030) *Total budget:* \$19,631,3667 (IDC: \$7,019,531).

Recent & Relevant Unfunded Research Funding Applications (full list available upon request)

Gorniak, S.L. (PI), Chen, T.A., LaVoy, E.P., Pollonini, L. “Women’s Inflammation and Sleep Health Study for Memory (WISHeS 4 Me) - HL” Baptist Health Foundation of San Antonio (BHFSa), Strategic to Mission Program – invited application (January 2026 – December 2029) *Total budget:* \$991,924 (IDC: \$99,103).

Gorniak, S.L. (PI). System to Improve Signal Quality in Non-Invasive Neuroimaging Modalities in Women and Persons of Color (Tensi Cap). Sprint for Women’s Health – Spark Program, Advanced Research Projects Agency for Health (ARPA-H). (October 2024 – September 2026). *Total budget:* \$3,000,000 (IDC: \$1,089,171). **Not Funded, but Advanced to ARPA-H Solutions Library**

Gorniak, S.L. (PI), Chen, T.A., LaVoy, E.P., Pollonini, L., Urban, R.J. “Mechanical and non-mechanical contributions to chronic neck, shoulder, arm, and back pain in full-busted women” R01 Research Project Grant – Clinical Trial, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) (June 2024 – May 2028) *Total budget:* \$2,146,419 (IDC: \$755,245). **Discussed with Impact Score = 49 (Percentile = 45%)**

Gorniak, S.L. (PI), Alfano, C., Chen, T.A., LaVoy, E.P., Mathew, R., Pollonini, L., Woods, S.P., Urban, R.J. “Cortical Complications of Perimenopause and Obstructive Sleep Apnea in Underrepresented Middle-Aged Women with Type 2 Diabetes” R01 Research Project Grant, National Institute on Aging (NIA) (July 2023 – June 2028) *Total budget:* \$3,325,752 (IDC: \$1,018,332). **Resubmission. Discussed with Impact Score = 56 (Percentile = 53%)**

Gorniak, S.L. (Co-PI), Harrison (Co-PI), W.H., Alfano, C., Chen, T.A., LaVoy, E.P., Pollonini, L., Menefee, D. “The Impact of Sex Hormones and Sleep Disruption on Vision Function, Proprioception, Motor Function, and Cognition in Females with Type II Diabetes” Department of Defense. FY22 Peer Reviewed Medical Research Program - Investigator-Initiated Research Award (Partnering Option). (January 2023 – December 2026) - **Discussed but Unfunded**

Gorniak, S.L. (PI), Alfano, C., Chen, T.A., LaVoy, E.P., Mathew, R., Pollonini, L., Woods, S.P., Urban, R.J. “Cortical Complications of Perimenopause and Obstructive Sleep Apnea in Underrepresented Middle-Aged Women with Type 2 Diabetes” R01 Research Project Grant, National Institute on Aging

(NIA) (September 2022 – August 2026) *Total budget:* \$2,697,785 (IDC: \$810,984). **Discussed with Impact Score = 41 (Percentile = 33%)**

Gorniak, S. L. (PI), O'Connor, D.P., Pollonini, L., Zouridakis, G. "Age-related Structural-Functional Cortical Changes and Cognitive Decline with Type II Diabetes" DiaComp Pilot & Feasibility Research Grant. National Institutes of Health – National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Diabetes Complications Consortium (DiaComp) (October 2018 – October 2019). *Total Budget:* \$99,947. (IDC: \$34,622). - **Discussed, NIH Priority Score: 4.0 (out of 9.0).**

Gorniak, S.L. (PI), O'Connor, D.P., Thrasher, T.A., Wang, J., York, M.K. "Assessment of Cognitive-Motor Function in Older Adults Living with Type 2 Diabetes – Revised Submission," R03 Program, National Institute of Nursing Research – NINR, National Institutes of Health (July 2013 - June 2015), *Total Budget:* \$157,339 (IDC: \$57,339), **Impact Score: 27 - Not Funded**

Gorniak, S.L. (PI), O'Connor, D.P., York, M.K. "Assessment of Cognitive-Motor Function in Older Adults Living with Type 2 Diabetes - Initial Submission," R03 Program, National Institute of Nursing Research – NINR, National Institutes of Health (July 2013 - June 2015), *Total Budget:* \$157,339 (IDC: \$57,339), **Impact Score: 47 - Not Funded**

PRESENTATIONS

Upcoming Keynotes

Gorniak, S.L. "Biomechanical and Neurological Adaptations Associated with Cardiometabolic Diseases", South-Central American Society of Biomechanics (SCASB) Annual Conference. Fort Worth, TX (March 2026).

Upcoming Presentations

Takahashi, K., **Gorniak, S.L.**, Rubenson, J., Anguiano-Hernandez, J., Fletcher, J. Session Title: "Blood-based measures in biomechanics as a window into muscle energetics and sensorimotor function." Special Session Symposium. 10th World Congress of Biomechanics, Vancouver, BC, Canada (July 2026).

Gorniak, S.L. "#Pain2026 Workshop – Pain & Dementia", Gulf Coast Consortia for Quantitative Biomedical Science – Translational Pain Research Group. Houston, TX (April 2026).

Gorniak, S.L., Yazdekhashti, S., Maddux, R.M., LaVoy, E.P. "Hormonal and Mental Health Influences on Musculoskeletal Pain and Mastalgia in Physically Active Women." 2026 American College of Sports Medicine (ACSM) Annual Meeting, Salt Lake City, UT (May 2026).

Gorniak, S.L., Yazdekhashti, S., Maddux, R.M., LaVoy, E.P. "Sex-Hormone and Adipose Tissue Distribution Impact Magnitude of Breast Tissue Accelerations." 10th World Congress of Biomechanics, Vancouver, BC, Canada (July 2026).

Invited Lectures & Talks

Gorniak, S.L. "Understanding Mechanistic Underpinnings of Impaired Memory Function in Postmenopausal Women with Type II Diabetes." Clinical and Translational Research Symposium. Houston, TX (May 2025).

- Gorniak, S.L.** “Women in Innovation.” UH Faculty Engagement and Development (FED) Workshop. Houston, TX, (March 17, 2025).
- Gorniak, S.L.** National Research Mentoring Network (NRMN) Strategic Empowerment Tailored for Health Equity Investigators (SETH) (NRMN 3.0) Concurrent Session Workshop, 2025 RCMI Consortium National Conference, Bethesda, MD (March 18, 2025).
- Gorniak, S.L.** “The Art of Healthy Aging.” Spaceflight Human Optimization Summit 2024 Post-Conference Event Community Outreach at Space Center Houston, Houston, TX (April 20, 2024).
- Gorniak, S.L.** “Cognitive & Sensorimotor Complications of Type 2 Diabetes in Adults.” Department of Health and Kinesiology, Texas A&M University, College Station, TX (March 1, 2024).
- Gorniak, S.L.** Functional neuroimaging in postmenopausal women with Type II Diabetes. Accepted for fNIRS 2020 – Datablitz, Boston, MA (October 2020).
- Hotez, P., **Gorniak, S.L.** Diabetes in the COVID-19 Era. UH American Medical Women’s Association Diabetes Panel. (September 2020).
- Gorniak, S.L.** “Dexterity, Disease, and Aging”, Toshiba Technical Society, Toshiba Corporation, Houston, TX (July 24, 2019).
- Gorniak, S.L.** “From the Fingertip to the Cortex: Multisystem Deficits Leading to Cognitive-Sensorimotor Dysfunction in Older Adults with Type II Diabetes.” Center for Translational Research in Aging and Longevity & Department of Health and Kinesiology, Texas A&M University, College Station, TX (March 2019).
- Gorniak, S.L.** “Preparing for Your P&T Portfolio: Advice from the Recently Tenured.” Junior Faculty Development Committee, Gulf Coast Consortia for Quantitative Biomedical Science & Rice University, Houston, TX (January 2019).
- Gorniak, S.L.** “Peripheral and Central Contributions to Dysfunction in Patients with Type II Diabetes.” Department of Mechanical Engineering, University of Texas at Austin, Austin, TX (May 2017).
- Gorniak, S.L.** “Cortical Activation Differences in Older Adult Women with Type II Diabetes.” Texas Pain Research Consortium, Galveston, TX (August 2017).
- Gorniak, S.L.** “Publications & Reporting: From Avoidance to Transparency in Research,” Rigor and Reproducibility Workshop, Gulf Coast Consortia for Quantitative Biomedical Science & Rice University, Houston, TX (February 2017).
- Gorniak, S.L.** “Path to Becoming a Biomechanist.” Masters of Athletic Training Program, University of Houston, Houston, TX (July 2016).
- Gorniak, S.L.** “Peripheral and Central Contributions to Manual Disability in Patients with Type II Diabetes.” Keck Seminar. Gulf Coast Consortia for Quantitative Biomedical Science & Rice University, Houston, TX (December 2015).

Gorniak, S.L. “Quantifying Hand and Finger Overuse Injuries for Clinical Care of Musicians.” Artists’ Health and Wellness Colloquium and Resource Fair. University of Houston, Houston, TX (October 2015).

Gorniak, S.L. “Detecting Cognitive-Sensorimotor Dysfunction in Patients with Type II Diabetes.” BRAIN/PAIN STORMing session. Gulf Coast Consortia for Quantitative Biomedical Science – Translational Pain Research Group. Houston, TX (April 2015).

Gorniak, S.L. “Diabetes, Difficulty, and Complexity.” School of Health, Physical Education and Recreation, University of Nebraska – Omaha, Omaha, NE (October 2014).

Gorniak, S.L. “Musicians as Athletes: Measuring Subtleties of the Hand.” Menuhin Competition, Butler School of Music, University of Texas at Austin, Austin, TX (February 2014).

Gorniak, S.L. “Detecting Subtle Fingertip Sensory and Motor Dysfunction in Adults with Type II Diabetes.” Center for Neuroengineering and Cognitive Science, University of Houston, Houston, TX (October 2013).

Gorniak, S.L. “Upper Extremity Sensorimotor Changes in Type II Diabetics.” Department of Health and Kinesiology, Texas Agricultural and Mechanical University, College Station, TX (October 2012).

Invited Workshop Lectures / Working Groups

Gorniak, S.L. “Publications & Reporting: From Avoidance to Transparency in Research,” Rigor and Reproducibility Workshop, Gulf Coast Consortia for Quantitative Biomedical Science & Rice University, Houston, TX (February 2017, June 2017, February 2018, May 2019, August 2019, October 2020, December 2020, May 2021, October 2021, May 2022, October 2022, May 2023, August 2023, October 2023, May 2024, October 2024, May 2025, August 2025, October 2025).

Workshop Organizer &/or Facilitator

Gorniak, S.L. - Gulf Coast Consortia Translational Pain Research Workshop Series

- “New Approaches in Understanding Neuropathic Pain” (9/22/2023)
- “Pain in Clinical Populations” (9/17/2021)

Professional Conferences

Podium Presentations

Gorniak, S.L. “Impaired Memory Function in Postmenopausal Women with Type II Diabetes.” Gulf Coast Consortia for Quantitative Biomedical Science – Translational Pain Research Group Annual Meeting. Houston, TX (March 2025).

Yazdekhasti, S., **Gorniak, S.L.** “Comparing the Impact of Sports Bras on Breast Acceleration in Full Busted Women.” American Society for Biomechanics (ASB) Meeting, University of Wisconsin, Madison, WI (August 2024).

Gorniak, S.L. (Presenter & Panelist) - National Research Mentoring Network (NRMN) Strategic Empowerment Tailored for Health Equity Investigators (SETH), 2024 RCMI Consortium National Conference, Bethesda, MD (April 2024).

Kenworthy, S., **Gorniak, S.L.** “Trailing Limb Angle as a Measure of Propulsion in Older Unimpaired Adults.” South Central American Society for Biomechanics Meeting, University of North Texas Health Science Center, Fort Worth, TX (April 2024).

Gorniak, S.L. Calorie dense energy sources reshape the brain’s motivation circuits: Impaired Memory Function & Cortical Activity Changes with Type II Diabetes. *Panelist*. Presentation at the Annual Winter Conference on Brain Research, Snowbird, UT, (January 2023).

Gorniak, S.L. “Peripheral and Central Origins of Manual Disability in Patients with Type II Diabetes.” “New Ideas” Cross-Consortia Networking Event. Gulf Coast Consortia for Quantitative Biomedical Science – Translational Pain Research Group. Houston, TX (October 2018).

Gorniak, S.L. “Peripheral and Central Contributions to Disability in Patients with Type II Diabetes.” “New Ideas” Cross-Consortia Networking Event. Gulf Coast Consortia for Quantitative Biomedical Science – Translational Pain Research Group. Houston, TX (December 2016).

Gorniak, S.L. Contribution of Tactile Dysfunction to Manual Disability in Type II Diabetes. Podium Presentation at the 2015 Neuroscience Research Conference: Advancing Pain Neuroscience Discovery Toward Therapeutics, University of Texas – Dallas, Dallas, TX (August 2015).

Gorniak, S.L., Santos, A., Mohapatra, S. Translational insights into the functional integrity of the central nervous system: Evaluation using Central and Peripheral Approaches. *Panel Chair*. Presentation at the 48th Annual Winter Conference on Brain Research, Big Sky, MT (January 2015).

Gorniak, S.L., Consitt, L., Hong, S., de Lacalle, S. Insights into common patterns of decline in brain and muscle with aging: Behavioral changes with aging and neurological disease in humans. Podium Presentation at the 46th Annual Winter Conference on Brain Research, Breckenridge, CO (January 2013).

Poster Presentations

Yazdekhasti, S., **Gorniak, S.L.** “Neuromuscular Activation During Gait in Women With Large Breasts: Role of Garment Support and Biological Factors.” Neuroscience 2025, San Diego, CA (November 2025).

Gorniak, S.L., Meng, H. “Cognitive Decline Outweighs Adiposity in Influencing Lower Limb Gait Kinematics in Older Adults.” Neuroscience 2025, San Diego, CA (November 2025).

Gorniak, S.L., Clement, A., Yazdekhasti, S., LaVoy, E.C. “Influence of Bra Type, Body Composition, and Sex Hormone Levels on Center of Pressure Measures During Gait in Full-Busted Women.”

American Society for Biomechanics (ASB) Meeting, University of Pittsburgh, Pittsburgh, PA (August 2025).

Kenworthy, S.A., **Gorniak, S.L.** "Timing Is Everything: The Effect of Measurement Timing on the Validity of Trailing Limb Angle in Gait Analysis." American Society for Biomechanics (ASB) Meeting, University of Pittsburgh, Pittsburgh, PA (August 2025).

Pollonini, L., **Gorniak, S.L.** "Developing an Inclusive Approach to fNIRS Measurement in Minority Study Participants." VIII Biennial Meeting of the Society for functional near-infrared spectroscopy (SfNIRS), University of Birmingham, Birmingham, United Kingdom (September 2024).

Gorniak, S.L., Pollonini, L. Including Women of Color in Neuroimaging Studies: Developing Recruitment & Retention Approaches to Combat Neuroracism. Neuroscience 2024, Chicago, IL (October 2024).

Yazdekhosti, S. LaVoy, E.P., **Gorniak, S.L.** "Hormonal Associations with Self-reported Neck and Back Pain in Full Busted Women." Gulf Coast Consortia for Quantitative Biomedical Science – Translational Pain Research Group Annual Meeting. Houston, TX (March 2024).

Gorniak, S.L., Meng, H., Yazdekhosti, S., Pollonini, L. Correlation between subcutaneous adipose tissue of the head and body mass index in children and adolescents: Implications for functional neuroimaging. Annual Winter Conference on Brain Research 2024, Breckenridge, CO (January 2024).

Hibino, H., **Gorniak, S.L.** Hand function and heart failure. Presented at Neuroscience 2023, Washington DC (November 2023).

Gorniak, S.L., Meng, H., Yazdekhosti, S., Pollonini, L. Correlation between subcutaneous adipose tissue of the head and body mass index across the lifespan: Implications for functional neuroimaging. Presented at Neuroscience 2023, Washington DC (November 2023).

Hibino, H., Yarossi, M., **Gorniak, S.L.**, Tunik, E. Reduced hand sensorimotor function in persons with heart failure. Progress in Clinical Motor Control Meeting II: Movement and Rehabilitation Sciences, Chicago, IL (July 2023).

Gorniak, S.L., Meng, H., Pollonini, L. Correlation between subcutaneous adipose tissue of the head and body mass index: Implications for functional neuroimaging. Presentation at the Annual Winter Conference on Brain Research, Snowbird, UT, (January 2023).

Hibino, H., **Gorniak, S.L.** Hand Sensory Function and Heart Failure. Presented at Neuroscience 2022, San Diego, CA (November 2022).

DiBello, S.A., Wurdeman, S.R., **Gorniak, S.L.** Orthotic Research Initiative for Outcomes aNalysis (ORION I): predictors of PROMIS PF for stroke survivors seeking orthotic intervention. Accepted for 48th American Academy of Orthotists and Prosthetists Annual Meeting and Scientific Symposium, Atlanta, GA (March 2022).

- Gorniak, S.L.,** Dougherty, P. Sex and age-based differences in tactile function loss in persons with type 2 diabetes. Presentation at the Annual Winter Conference on Brain Research, Snowmass, CO, (January 2022).
- Hibino, H., **Gorniak, S.L.** The relationship between cognitive function and depression in people with and without type 2 diabetes mellitus. Presented at Neuroscience 2021, Chicago, IL (November 2021).
- Hibino, H., **Gorniak, S.L.** Effects of aging on rapid grip force during bimanual manipulation of an active object. Society for Neuroscience Global Connectome (January 2021).
- Gorniak, S.L.,** Hernandez, A., Montero Hernandez, S.A., Pollonini, L. Functional cortical activation changes and working memory loss in postmenopausal women with Type II Diabetes. Society for Neuroscience Global Connectome (January 2021).
- Gorniak, S.L.,** Hernandez, A., Pollonini, L. The role of inflammation markers in functional cortical activation deficits during manual tasks in postmenopausal women with Type II Diabetes. Winter Conference on Brain Research, Big Sky, MT (January 2020).
- Gorniak, S.L.,** Hernandez, A., Pollonini, L. Functional cortical activation deficits during manual tasks in older adults with Type II Diabetes. Presented at Neuroscience, Chicago, IL (October 2019).
- Leister, K.R., Wurdeman, S., **Gorniak, S.** “Foot temperature differences between individuals with Type II Diabetes and transtibial amputation and individuals with Type II Diabetes without amputation.” 45rd Academy Annual Meeting & Scientific Symposium – American Academy of Orthotists & Prosthetists. Orlando, FL (March 2019).
- Meng, H., **Gorniak, S.L.** “Effects of adiposity on postural control and cognition in older adults.” Winter Conference on Brain Research, Snowmass, CO (January 2019).
- Gorniak, S.L.,** Lee, B.C., Wang, J. “Postural Control and Cognitive-Motor Impairment in Adults With Type II Diabetes”, 3rd Annual Clinically Applied Rehabilitation Engineering (CARE) Research Day, University of Texas at Austin, Austin, TX (April 2018).
- Gorniak, S.L.,** Lee, B.C., Wang, J. “Cognitive-Motor Impairment During Balance in Adults With Type II Diabetes”, American Heart Association Scientific Sessions 2017, Anaheim, CA (November 2017).
- Brooks, F.A., Goldie Staines, K., **Gorniak, S.,** Collins, E.D. “Effective Hand & Upper Extremity Treatments for Performing Artists and Musicians: Identifying Evidence Based Research.” Evidence based data in hand surgery and therapy - XXII. FESSH Congress & XII. EFSHT Congress; EUROHAND 2017, Budapest, Hungary (June 2017).
- Gorniak, S.L.,** Ray, H., Thames, B., Ochoa, N., Gogola, G. “Assessing Manual Disability in Patients with Type II Diabetes”. 2nd Annual Clinically Applied Rehabilitation Engineering (CARE) Research Day, University of Texas at Austin, Austin, TX (March 2017).
- Gorniak, S.L.** Cognitive-Motor Impairment in Patients with Type II Diabetes. Presented at the 50th Annual Winter Conference on Brain Research, Big Sky, MT (January 2017).

- Gorniak, S.L.** Peripheral and Central Deficits Contributing to Manual Function in Patients with Type II Diabetes. Presented at the 49th Annual Winter Conference on Brain Research, Breckenridge, CO (January 2016).
- Gorniak, S.L.,** Lee, B.C., Wang, J. Cognitive interference effects during manual force production in adults with Type II Diabetes. Presented at Neuroscience, Chicago, IL (October 2015).
- Ochoa, N., Gogola, G., **Gorniak, S.L.** Effects of Tactile Feedback on Manual Function in Patients with Type II Diabetes. Presented at Neuroscience, Chicago, IL (October 2015).
- Gorniak, S.L.,** Brooks, F.A., Goldie-Staines, K., Collins, E.D. Evaluation of fine motor performance in elite musicians. Presented at Neuroscience, Washington DC (November 2014).
- Meng, H., O'Connor, D.P., Lee, B.C., Layne, C.S., **Gorniak, S.L.** Effects of adiposity on postural stability in overweight and obese adults. Presented at Neuroscience, Washington DC (November 2014).
- Gorniak, S.L.** Disambiguating “difficulty” and “complexity” in motor tasks. Presented at the Gulf Coast Consortium 11th Annual Theoretical and Computational Neuroscience Conference, Houston, TX (January 2014).
- Gorniak, S.L.,** Plow, M., Alberts, J.L. Effects of Multiple Sclerosis on bimanual task performance. Presented at Neuroscience, San Diego, CA (November 2013).
- Ochoa, N., Khan, A., **Gorniak, S.L.** Changes in sensory and maximal force production in adult individuals with Type II Diabetes. Presented at Neuroscience, San Diego, CA (November 2013).
- Khan, A., **Gorniak, S.L.** Effects of task complexity on grip force production. Presented at Neuroscience, San Diego, CA (November 2013).
- Gorniak, S.L.** Inferring task complexity: Moving beyond Fitts’ Law. Presented at Progress in Motor Control IX Conference, McGill University, Montreal, QC, Canada (July 2013).
- Gorniak, S.L.,** McIntyre, C.C., Machado, A., Alberts, J.L. Changes in fine motor control with medical management and deep brain stimulation in Parkinson’s disease. Presented at Pharmaceutical Health Services Research Symposium, Houston, TX (March 2013).
- Ochoa, N., Khan, A., **Gorniak, S.L.** Effects of adult-onset type 2 diabetes on hand function. Presented at National Center for Human Performance Annual Meeting, Houston, TX (November 2012).
- Gorniak, S.L.,** Parker, N., Lee, R.E. Sitting time and future health expectations in African American and Hispanic or Latina Women. Presented at Texas Obesity Research Center Biennial Conference, Houston, TX (November 2012).
- Ochoa, N., Khan, A., **Gorniak, S.L.** Effects of duration & severity of type 2 diabetes on upper extremity function. Presented at Neuroscience, New Orleans, LA (October 2012).

- Ochoa, N., Khan, A., **Gorniak, S.L.** Effects of peripheral neuropathy on hand function in patients with type 2 diabetes. Presented at Undergraduate Research Day, University of Houston, Houston, TX (October 2012).
- Gorniak, S.L.**, Pourmoghaddam, A., Paloski, W.H., O'Connor, D.P., Layne, C.S. SYNERGOS index for quantifying multiple muscle activation in squat movements. Presented at Neuroscience, New Orleans, LA (October 2012).
- Layne, C.S., **Gorniak, S.L.**, Paloski, W.H., O'Connor, D.P., Pourmoghaddam, A. The effects of levodopa intake on lower limb EMG during treadmill walking in individuals with Parkinson's disease. Presented at Neuroscience, New Orleans, LA (October 2012).
- Pourmoghaddam, A., **Gorniak, S.L.**, O'Connor, D.P., Paloski, W.H., Layne, C.S. Generalizability of SYNERGOS index for quantifying multiple muscle activation. Presented at Neuroscience, New Orleans, LA (October 2012).
- Gorniak, S.L.**, McIntyre, C.C., Alberts, J.L. Does Performance of a bimanual rotation task change with deep brain stimulation parameters? Presented at Neuroscience, Washington DC (November 2011).
- Gorniak, S.L.**, Alberts, J.L. Effects of Object Rotation on Bimanual Hand Action. Presented at the Annual Society for Neuroscience Conference, San Diego, CA (November 2010).
- Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. Biomechanics of Transport of a Fragile Object. Presented at the Annual American Society of Biomechanics Conference, University Park, PA (August 2009).
- Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. Synergies at two hierarchical levels during one- and two-person static prehension tasks. Presented at Annual Society for Neuroscience Conference, Washington DC (November 2008).
- Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. Hierarchical Control of Static Prehension: Biomechanics and Synergies. Presented at the Biennial North American Congress of Biomechanics Conference, Ann Arbor, MI (August 2008).
- Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. Emerging & Disappearing Synergies in a Hierarchically Controlled System. Presented at the Progress in Motor Control VI Conference, Santos, Brazil (August 2007).
- Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. Emerging & Disappearing Synergies in a Hierarchically Controlled System. Presented at the North Eastern American Society of Biomechanics Conference, College Park, MD (March 2007).
- Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. Between- and Within-a-Hand Synergies During Two-Hand Force Production Tasks. Presented at Annual Society for Neuroscience Conference, Atlanta, GA (October 2006).
- Gorniak, S.L.**, Zatsiorsky, V.M., Latash, M.L. Changes in Within- and Between-Hand Synergies During Unimanual and Bimanual Force Production Transitions. Presented at the Annual American Society of Biomechanics Conference, Blacksburg, VA (September 2006).

Gorniak, S.L., Zatsiorsky, V.M., Latash, M.L. Anticipatory Adjustments in Multi-Finger Synergies in Two-Hand Quick Force Pulse Production Tasks. Presented at the Progress in Motor Control V Conference, University Park, PA (August 2005).

EDITORIAL CONTRIBUTIONS

Grants/Funding Reviewer

1. Chair, Transformational Project Award Review, Clinical Sciences Committee – American Heart Association (October 2018 – present)
2. Chair, Innovative Project Award, Clinical Sciences Committee – American Heart Association (January 2020 – Summer 2020, Spring 2024)
3. Reviewer – Ralph L. Sacco Scholars Program in Brain Health – American Heart Association (March 2025)
4. Reviewer – Special Emphasis Panel for Endocrine and Metabolic Systems (EMS) Review of Specialized Centers of Research Excellence (SCORE) on Sex Differences (ZRG1 EMS-A (70) R) – NIH Center for Scientific Review (December 2024)
5. Reviewer – Special Emphasis Panel for Endocrine and Metabolic Systems (EMS) Review of Small Business Applications for Endocrinology, Metabolism, and Reproduction (ZRG1 EMS-S (10) B) – NIH Center for Scientific Review (June 2024)
6. Reviewer – Biobehavioral Mechanisms of Emotion, Stress and Health (MESH) Study Section – NIH Center for Scientific Review (October 2022)
7. Reviewer – University of Wisconsin-Milwaukee Discovery & Innovation Grant Program (January 2024)
8. Reviewer – DiabetesUK, United Kingdom (March 2025)
9. Reviewer – Mitacs Accelerator, Canada (January 2023)
10. Reviewer – National Science Center of Poland (September 2022)
11. Reviewer – University of Sharjah, United Arab Emirates (September 2022)
12. Reviewer – AHA Rapid Response Grant COVID-19 and Its Cardiovascular Impact – American Heart Association (April 2020)
13. Reviewer – American Heart Association, Innovative Project Award – Clinical/Population Sciences (October 2019 – Summer 2020)
14. Reviewer – American Heart Association, Career Development Award (August 2018 – present)
15. Reviewer – American Heart Association, Transformational Project Award (April 2018 – Summer 2020)
16. Reviewer – Motor Function and Speech Rehabilitation (MFSR) Study Section – NIH Center for Scientific Review (October 2017 – present)
17. NIH Early Career Reviewer Program (Spring 2015 – Fall 2017)
18. Dunn Collaborative Research Award Program - Gulf Coast Consortia for Quantitative Biomedical Sciences (June 2016 – present)
19. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) Grant Reviewer, Innovative Science Accelerator Program (ISAC) (June 2016 – present)

Journal Editor

Executive Editor – Journal of Motor Behavior (January 2023 – present)
Review Editor – Frontiers in Human Neuroscience (Fall 2015 – present)

Textbook Reviewer

1. Ives, J.C. Motor Behavior: Connecting Mind and Body for Optimal Performance. Philadelphia, PA, USA: Wolters Kluwer – Lippincott Williams & Wilkins (March 2013).
2. Stergiou, N. (ed). Non-linear Analysis for Human Movement Variability. Clearmont, FL, USA: CRC Press – Taylor and Francis (April 2014).
3. Blind Review. Writing Across the Discipline of Kinesiology. Burlington, MA, USA: Jones & Bartlett Learning (May 2016).
4. Stergiou, N. Advice for the Young Investigator in Movement Sciences. Clearmont, FL, USA: CRC Press – Taylor and Francis (June 2016).

Manuscript Reviewer 2011 – Current (Reported Impact Factors) - Publisher

Journal of Neuroscience (6.90)
Cerebral Cortex (6.83) - Oxford
Frontiers in Bioengineering and Biotechnology (5.7) - Frontiers
Journal of Gerontology: Medical Sciences (5.24) – Oxford
Scientific Reports (5.08) – Nature
Journal of Physiology (5.04) – Wiley
Surgery for Obesity and Related Diseases (4.94) – Elsevier
Neurorehabilitation and Neural Repair (4.62) – Sage
Medicine & Science in Sports & Exercise (3.98) – American College of Sports Medicine
Diabetology & Metabolic Syndrome (3.9) – Springer
WIREs Cognitive Science (3.8) – Wiley
PLoS One (3.73) – Public Library of Science
Therapeutic Advances in Chronic Disease (3.5) - SAGE
Journal of Diabetes Investigation (3.46) – Wiley
Journal of Science and Medicine in Sport (3.4) – Elsevier
Experimental Gerontology (3.38) – Elsevier
Frontiers in Human Neuroscience (3.2) - Frontiers
Journal of Neurophysiology (3.11) – American Physiological Society
Journal of Pain Research (2.83) – Dove Press
Expert Systems with Applications (2.56) - Elsevier
Journal of Biomechanics (2.49) – Elsevier
BMC Neurology (2.49) – BioMed Central
Restorative Neurology and Neuroscience (2.406) – iOS Press
Frontiers in Psychology (2.31) – Frontiers
Gait & Posture (2.29) – Elsevier
Acta Psychologica (2.25) – Elsevier
Experimental Brain Research (2.22) - Springer
Journal of Biomechanical Engineering (2.09) - American Society of Mechanical Engineers
International Journal of Environmental Research and Public Health (2.04) – MDPI
Neuroscience Letters (2.03) - Elsevier
Human Movement Science (2.03) - Elsevier
IEEE Transactions on Haptics (2.00) - IEEE
Journal of Aging and Physical Activity (1.98) – Human Kinetics
Journal of Diabetes and Its Complications (1.93) - Elsevier
Medical & Biological Engineering & Computing (1.79) - Springer
Attention, Perception, & Psychophysics (1.7) - Springer
Journal of Motor Behavior (1.42) – Taylor & Francis
Motor Control (1.39) – Human Kinetics

The Occupational Therapy Journal of Research (OTJR): Occupation, Participation and Health (1.234) – SAGE

Computers in Biology & Medicine (1.20) - Elsevier

Journal of Applied Biomechanics (1.05) – Human Kinetics

ASME Journal of Medical Devices (0.71) – American Society of Mechanical Engineers

Physiological Reports (N/A) – Wiley Open Access

ACADEMIC SERVICE

Professional Leadership

1. Member, Organizing Committee - Pain 2020 Conference
2. Chair, Workgroup - Gulf Coast Consortia Junior Faculty Development Committee, Houston, TX (June 2017 – September 2020)
3. Member, Workgroup – Gulf Coast Consortia Rigor & Reproducibility Workshop Development Committee, Houston, TX (January 2017 – present)
4. Member, Executive Committee – Gulf Coast Consortia Translational Pain Research Leadership Committee, Houston, TX (June 2015 – present)

Professional Memberships

1. Member, Texas Pain Research Consortium (June 2017 – present)
2. Member, National Center for Neuromodulation and Rehabilitation (May 2017 – present)
3. Member, Mission Connect – TIRR Foundation (September 2015 – present)
4. Member, Gulf Coast Consortia Translational Pain Research Group (April 2015 – present)
5. Member, American Heart Association (January 2015 – present)
6. Member, Society for Neuroscience (May 2006 – present)
7. Member, International Society for Motor Control (August 2005 – present)
8. Member, Sigma Pi Sigma (April 2004 – present)
9. Member, Omicron Delta Kappa (March 2003 – present)
10. Member, American Physical Society (March 2002 – March 2005)

University

1. UH Innovation Council Annual Performance Review and Promotion and Tenure Recommendations Committee (October 2025 – present)
2. Super Administrator – InfoReady (December 2024 - present)
3. Reviewer – UH RCMI EXCITE Grant Program (October 2024)
4. Appointed to UH Innovation Council (April 2024 - present)
5. Panelist – Femtech(+) Innovation Challenge Panel, Wolff Center for Entrepreneurship, C.T. Bauer College of Business (November 2022)
6. Office for Recruitment, Retention, Equity, and Diversity Mentor for NIH Cluster Hire Grant (February 2021)
7. Office of Technology Transfer & Innovation (OTTI) The Faculty Innovation Ambassador (FIA) (December 2021 – present)
8. Cougar Chairs Leadership Academy (CCLA) for 2020-2021 (August 2020 – August 2021)
9. Chancellor’s Technology Bridging Fund Advisory Board (March 2019 – March 2021)
10. Chair, Reopening Research DOR Workgroup #2 (June 2020 – March 2021)
11. Member, Reopening Research DOR Workgroup #3 (June 2020 – March 2021)
12. Reviewer, Inaugural HEALTH: A Call to Action Conference (November 2019)
13. Affiliate, HEALTH Research Institute (June 2019 – present)

14. Full Scientist Member, Institutional Review Board (IRB #1) – Division of Research (June 2017 – September 2020)
15. Alternate Scientist Member, Institutional Review Board (IRB #1) – Division of Research (October 2020 - present)
16. DEXA / X-ray Sublicense Holder for UH (Summer 2017 – present)
17. Member, Intellectual Property Committee – Division of Research (Spring 2012 – September 2017, September 2018 - present)
18. Liaison for UH - IEEE Local Chapter Distinguished Leader Series Talk (Summer 2016 – Fall 2016)
19. Member, Faculty Advisory Group for UH CPHS Huron Click Transition (Summer 2016)
20. Member, UH-ASU NSF Brain Center (Fall 2015 – present)
21. Reviewer, Technology Gap Fund Applications, Intellectual Property Committee – Division of Research (Spring 2012 – present)
22. Member, UH Advance STEM Working Group (2013 – 2014)
23. Member, Texas Obesity Research Center (Spring 2012)
24. Member, Center for Neuroengineering and Cognitive Science (Spring 2012 – Summer 2014)
25. Member, Center for Neuromotor and Biomechanics Research (Fall 2011 – present)

College

1. Member, CLASS Graduate Affairs Committee (August 2021 – August 2023)
2. Member, CLASS Graduate Affairs Curriculum Committee (September 2022 - August 2023)
3. Member, Search Committee, CLASS Dean Search Committee (Fall 2021)
4. Anh Lac Tran Scholarship in Neuroscience Committee, Developmental Cognitive & Neuroscience Program, Department of Psychology, CLASS (Fall 2020 – Summer 2020)
5. Health and Human Performance Representative, CLASS Technology Committee (Fall 2012 – Fall 2017)

Department

1. Chair, Graduate Research Degrees Committee (August 2021 – August 2023)
2. Member, Search Committee, Assistant Professor of Nutrition Search Committee (Fall 2020– Summer 2021)
3. Member, HHP Chair’s Council (October 2018 – August 2021)
4. Member, HHP PhD Program Review Workgroup (June 2017 – January 2020)
5. Director, Center for Neuromotor and Biomechanics Research (February 2017 - August 2021)
6. Proctor, Ph.D. Qualifying Examination (Spring 2016, Spring 2017, Spring 2019)
7. Proctor, Ph.D. Comprehensive Examination (Fall 2015)
8. Proctor, Ph.D. Comprehensive Examination (Summer 2015, Summer 2017)
9. Search Chair, Assistant Professor of Motor Behavior Search Committee, Position #2 (Spring 2015)
10. Search Chair, Assistant Professor of Motor Behavior Search Committee, Position #1 (Fall 2014 – Spring 2015)
11. Member, Graduate Research Degrees Committee (2012 – present)
12. Member, Health and Human Performance Scholarship Committee (2011 – 2014)
13. Organizer/Facilitator, Center for Neuromotor and Biomechanics Research Journal Club (2011 – 2014)
14. Department Organizer/Facilitator for University of Texas – Medical Branch Occupational Therapy Student Group visit to Center for Neuromotor and Biomechanics Research (October 2012)

15. Organizer, Health and Human Performance Faculty/Staff Graffiti Fun Run Group (2013)
16. Proctor, Masters of Education comprehensive examinations (Fall 2011)

TEACHING AND STUDENT LEARNING

Facilitation of Professional Development Workshops for Graduate Students, Postdocs, & Faculty

Speaker: Gorniak, S.L. “Publications & Reporting: From Avoidance to Transparency in Research,” Rigor and Reproducibility Workshop, Gulf Coast Consortia for Quantitative Biomedical Science & Rice University, Houston, TX (February 2017, June 2017, February 2018, May 2019, August 2019, October 2020, December 2020, May 2021, October 2021, May 2022, October 2022, May 2023, August 2023, May 2024, October 2024, May 2025, August 2025, October 2025).

Facilitator - Scientific Communication Advances Research Excellence (SCOARE) Facilitator Training. Sponsored by MD Anderson Cancer Center & NIH National Institute of General Medical Sciences (R25GM125640) (February - March 2023). Workshops delivered: December 2023.

Panelist - Artificial Intelligence & Scientific Communication Advances Research Excellence (SCOARE) Workshop. Sponsored by MD Anderson Cancer Center & NIH National Institute of General Medical Sciences (R25GM125640) (April 2024).

Courses Delivered

1. KIN 3309 – Biomechanics (Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Fall 2019, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2025)
2. PEP 7370 – Research Methods in Human Performance (Spring 2012, Spring 2013)
3. PEP 7331 – Foundations of Motor Control (Summer 2012)
4. PEP 7397 – Modern Topics in Motor Control (Fall 2012, Fall 2022)
5. PEP 7397 – Research Seminars in Health and Human Performance (Fall 2014)
6. PEP 7398 / 8304 – Health and Human Performance Journal Club in Biomechanics and Motor Control (Spring 2014, Spring 2016)
7. PEP 7398 – Advanced Topics in Biomechanics & Motor Control (Spring 2015, Spring 2017, Spring 2018)
8. PEP 8306 – Principles of Scientific Inquiry (Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018)
9. PEP 8314 – Doctoral Residency Seminar (Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2019)
10. PEP 8332 – Integrative Systems Physiology Laboratory (Fall 2013)
11. PEP 8390 – Contemporary Issues in Health and Human Performance (Fall 2015)

Courses and Program Development

1. Develop new course (KIN 3101 – Seminar in Kinesiology) for students in Bachelor of Science in Exercise Science (Health Profession Option) (Fall 2025 – present)
2. Took KIN 3309 completely online via TopHat, including homework and online exams (Fall 2020 – Fall 2023).
3. Reworked KIN 3309 content, including delivered content, restructuring of lectures, problem sets and exams. For this course, I integrated TopHat attendance and interactive quizzes to

enhance student learning and as a measurement of lesson effectiveness. This was my first use of TopHat in a course. (Fall 2016)

4. Vetting / Reading proposed materials for Ph.D. Qualifying Examination (2014 – 2018)
5. Developed completely new course content for PEP 7370 (Research Methods in Human Performance) – Delivered Spring 2012 & Spring 2013
6. Developed new course for entry level motor control Ph.D. students: PEP 7331 (Foundations of Motor Control) – Delivered Summer 2012
7. Developed new course for advanced motor control Ph.D. students: PEP 7397 (Modern Topics in Motor Control) – Delivered Fall 2012
8. Developed completely new course content for PEP 8306 (Principles of Scientific Inquiry) – Delivered Fall 2013
9. Developed new course content for PEP 8332 (Integrative Systems Physiology Laboratory) – Delivered Fall 2013
10. Developed completely new course content for PEP 8314 (Doctoral Residency Seminar) – Delivered Spring 2014
11. Transitioned CNBR Journal Club meetings into a formal course: PEP 7398 (HHP Journal Club for Biomechanics and Motor Control) – Delivered Spring 2014
12. Developed new course for advance level undergraduate students: KIN 4375 (Neuromuscular Basis of Movement)
13. Received internal funding to develop KIN 4375 course. Gorniak, S.L. (PI). “Curriculum Development for the Neuromuscular Basis of Movement Course (KIN 4375),” HHP Summer Curriculum Development Program, Department of Health and Human Performance, University of Houston (May 2012 - September 2012) *Total Budget: \$5,000 (IDC: \$0).*

MENTORSHIP

Graduate Student Mentored (**Bold** = students completed program; * denotes primary mentees)

- *Saba Yazdekhasti (Spring 2022 – present), Ph.D. Advisor
- ***Sally (DiBello) Kenworthy** (Spring 2019 – Spring 2024), Ph.D. Advisor
- ***Hidetaka Hibino** (Fall 2017 – Fall 2022), Ph.D. Advisor
- ***Lauren Gulley Cox** (Fall 2016 – Spring 2020), Ph.D. Advisor
- *Kyle Leister (Fall 2016 – Spring 2020), Ph.D. Advisor
- *Brad Day (Fall 2015 – Fall 2016), Ph.D. Advisor
- *Jaspreet Sodhi (Fall 2013 – Spring 2014), Ph.D. Advisor
- ***Nereyda Ochoa** (Spring 2013 – Summer 2015), M.S. Advisor
- ***Hao Meng** (Spring 2013 – Fall 2017), Ph.D. Advisor

Thesis, Dissertation, Comprehensive, and Candidacy Paper Committees

- *Saba Yazdekhasti – Candidacy Paper Chair & Comprehensive Examination Chair
- *Sally (DiBello) Kenworthy – Candidacy Paper Chair, Comprehensive Examination Chair & Dissertation Committee Chair (*Defended February 27, 2024*)
- *Hidetaka Hibino – Candidacy Paper Chair, Comprehensive Examination Chair & Dissertation Committee Chair (*Defended November 8, 2022*)
- *Lauren Gulley Cox – Comprehensive Examination Chair & Dissertation Committee Chair (*Defended April 6, 2020*)
- *Hao Meng – Candidacy Paper Chair, Comprehensive Examination Chair & Dissertation Committee Chair (*Defended November 20, 2017*)

*Yoshimi Lu – Honors Thesis Committee Chair (*Defended July 28, 2017*)
*Beatriz Thames – Honors Thesis Committee Chair (*Defended May 12, 2016*)
*Nereyda Ochoa – Thesis Committee Chair (*Defended August 5, 2015*)

Justin Crane (*Defended April 2025*) - Dissertation Committee Member
Marius Dettmer (*Defended May 2014*) - Dissertation Committee Member
Vladimir Ivkovic, Ph.D. (*Defended October 2012*) - Dissertation Committee Member
Amir Pourmoghaddam, Ph.D. (*Defended May 2012*) - Dissertation Committee Member

Feng Feng (*Defended October 2022*) – Dissertation Committee Member (Biomedical Engineering)
Yang Liu (*Defended March 2022*) – Dissertation Committee Member (Biomedical Engineering)
Chuan Zhang (*Defended May 2019*) – Dissertation Committee Member (Biomedical Engineering)

Vivian Rose (Summer 2020) – Candidacy Paper Reader
Shernice Thomas (Summer 2020) – Candidacy Paper Reader
Nishant Rao (Fall 2018 – Spring 2022) – Candidacy Paper Reader & Dissertation Committee Member
Rakshatha Kabbiligere (Spring 2016) – Candidacy Paper Reader
David Temple (Spring 2016) – Comprehensive Examination Reader
Raul Amador (Spring 2016) – Candidacy Paper Reader
Craig Workman (Fall 2015) – Comprehensive Examination Reader
Stefan Madansingh (Spring 2012 – Fall 2014) - Candidacy Paper Chair & Comprehensive Examination Reader
Amber Chelette (Fall 2013) - Candidacy Paper Reader & Comprehensive Examination Reader
Lyle Babcock (Spring 2015) - Comprehensive Examination Reader

NIH R25, NSF REU, and NSF REM Students Mentored

Leah Karels (NIH R25) – Summer 2023
Abigail Clement (NSF REU) – Summer 2023
Katherine Fernandez (NSF REM) – Summer 2023
Vanessa Jara (NSF REU) – Summer 2024
Sandra Poole (NSF REM) – Summer 2024
Julia Martin (NIH R25) – Summer 2025
Kate Zeferos (NSF REU) – Summer 2025

Undergraduate Students Mentored

*Armesia Ryans (Fall 2025 – present)
*Alaina Rowan (Fall 2025 – present)
*Safa Ansari (Fall 2024 – present)
*Hai-Chau Hoang (Fall 2024 – present)
*Jennifer Vu (Spring 2024 – Summer 2024)
*Tracy Do (Spring 2022 – Fall 2023)
*Boi Ha (Fall 2021 – Summer 2022)
*Marcel Gugala (Summer 2021 – Spring 2023)
*Molly Huerta (Fall 2019 – Fall 2020)
*Nikita Watson (Fall 2018 – Spring 2021)
*Nadia Sorathia (Fall 2018 – Spring 2021)
*Whitney Gee (Fall 2018 – Fall 2019)
*Benita Lalani (Fall 2018 – Spring 2019) – UH Tier One Scholar
*Whitney Gee (Summer 2018 – Spring 2019)

*J. Logan Gibson (Fall 2016 – Spring 2017)
 *Daniel Trevino (Fall 2016 – Spring 2017)
 *Elyssa Davilla (Fall 2016 – Spring 2017)
 *Katherine (Evan) Wood (Spring 2015 – Spring 2017)
 *Deepankar Sinha (Spring 2015)
 *Wajahat Ali (Spring 2015)
 *Fangmei (Yoshimi) Lu (Spring 2015 – Summer 2017) – UH Tier One Scholar
 *Lena Younes (Fall 2014 – Summer 2016)
 *Beatriz Thames (Spring 2014 – Summer 2016) – UH Tier One Scholar
 *Hayley Ray (Summer 2014 – Summer 2015)
 *Omar Alnator (Summer 2014 – Spring 2015)
 *Russell Sheikh (Summer 2014 – Spring 2015)
 *Dara Anya (Summer 2014) – University of Texas - Austin
 *Taft Knowles (Summer 2014) – Brigham Young University
 *Zahrah Mohamed (Spring 2013 – Summer 2014)
 *Reka Kovacs (Summer 2013)
 *Anastasia Anazonwu (Summer 2013) – Columbia University
 *Nhat Pham (Spring 2013 – Summer 2014)
 *Taylor Peabody (Summer 2012) – Vanderbilt University
 *Aisha Khan (Spring 2012 – Spring 2015)
 *Sahifah Ansari (Spring 2012 – Summer 2014) – UH Tier One Scholar
 *Nereyda Ochoa (Spring 2012 – Fall 2012)

Graduate Student Achievements

1. Kenworthy, S. (Graduate Student). First paper from dissertation accepted as a published manuscript. Student is the first author (Kenworthy & Gorniak, 2026, *Gait & Posture*). Role: Advisor, senior & corresponding author on the manuscript.
2. Gulley, L.I. (Graduate Student). Third paper from dissertation accepted as a published manuscript. Student is the first author (Gulley et. al, 2025, *Exper Biol Med*, 250: 10491). Role: Advisor, senior & corresponding author on the manuscript.
3. Gulley, L.I. (Graduate Student). Second paper from dissertation accepted as a published manuscript. Student is the first author (Gulley et. al, 2025, *Neurosci Lett*, 844: 138039). Role: Advisor, senior & corresponding author on the manuscript.
4. Yazdekhesti, S. (Graduate Student). Candidacy project accepted as a published manuscript. Student is the first author (Yazdekhesti et al. 2025, *Journal of Biomechanics*, 183: 112640). Role: Advisor, senior & corresponding author on the manuscript.
5. Yazdekhesti, S. (Graduate Student). Data from collaborative project accepted as a published manuscript. Student is co-author (Clement et al. 2025, *Journal of Applied Biomechanics*, 41(3): 223-232). Role: Advisor, senior author on manuscript.
6. Kenworthy, S. (Graduate Student). Won the Promising Scientist Award for her work presented at the South Central American Society for Biomechanics, Fort Worth, TX, April 2024.
7. Gulley, L.I. (Graduate Student). First paper from dissertation accepted as a published manuscript. Student is the first author (Gulley et. al, 2023, *Journal of Motor Behavior*, 56(3): 263-274). Role: Advisor, senior & corresponding author on the manuscript.
8. Hibino, H. (Graduate Student). Commentary paper from dissertation work accepted as a published manuscript in an invited submission. Student is the first author (Hibino & Gorniak, 2023, *21st Century Cardiology*. 40(2): 113-121). Role: Advisor, senior & corresponding author on the manuscript.

9. Meng, H. (Graduate Student). Paper from candidacy work & dissertation contributed to a published manuscript in an invited submission. Student is a co-author (Gorniak et al. 2022, *Human Movement Science*, 85: 102997) Role: Advisor, senior & corresponding author on the manuscript.
10. Meng, H. (Graduate Student). Second paper from dissertation accepted as a published manuscript in an invited submission. Student is the first author (Meng et al. 2022, *Motor Control*, 27(1): 6-19). Role: Advisor, senior & corresponding author on the manuscript.
11. Hibino, H. (Graduate Student). Dissertation literature review accepted as a published manuscript. Student is first author (Hibino & Gorniak, 2022, *Heart Failure Reviews*, 27: 1043-1051). Role: Advisor, senior author on manuscript.
12. Kenworthy (DiBello), S.A. (Graduate Student). Data candidacy project accepted as a published manuscript. Student is the first author (DiBello et al. 2021, *Disability and Rehabilitation*. 2: 1-6). Role: Advisor, senior & corresponding author on the manuscript.
13. Hibino, H., & Gulley Cox, L.I., Ochoa, N. (Graduate Students). Data from collaborative projects contribute to a published manuscript. Students are co-authors (Gorniak et al., 2020, *PLoS One*. 15(11): e0242199). Role: Advisor, senior author on manuscript
14. Meng, H. (Graduate Student). First paper from dissertation accepted as a published manuscript. Student is the first author (Meng et al. 2020, *Gait & Posture*. 82: 147-152.). Role: Advisor, senior & corresponding author on the manuscript.
15. Gulley Cox, L.I. (Graduate Student). Data from collaborative project accepted as a published manuscript. Student is co-author (Gorniak et al. 2020, *NeuroPhotonics*. 7(3): 035007). Role: Advisor, senior author on manuscript.
16. Hibino, H. (Graduate Student). Candidacy project accepted as a published manuscript. Student is the first author (Hibino & Gorniak, *Experimental Brain Research*. 238(10): 2161-2178). Role: Advisor, senior & corresponding author on the manuscript.
17. Gulley Cox, L.I. (Graduate Student). Data from collaborative project accepted as a published manuscript. Student is second author (Pollonini et al. 2020, *Journal of Aging and Physical Activity*, in press). Role: Advisor, senior author on manuscript.
18. Leister, K. (Graduate Student). Awarded Orthotic and Prosthetic Education and Research Foundation (OPERF) Fellowship Grant. Role: Advisor, Co-investigator.
19. Meng, H. (Graduate Student). Second paper from candidacy project accepted as a published manuscript. Student is the first author (Meng et al. 2017, *Gait & Posture* 53: 145-150.). Role: Advisor, senior & corresponding author on the manuscript.
20. Ochoa, N. (Graduate Student): Data from master's thesis project contributes to a published manuscript. Student is first author (Ochoa et al. 2016, *Muscle & Nerve*. 54: 895-902). Role: Advisor, senior author on manuscript.
21. Meng, H. (Graduate Student). Candidacy project accepted as a published manuscript. Student is the first author (Meng et al. 2016, *Gait & Posture* 43: 31-37). Role: Advisor, senior & corresponding author on the manuscript.
22. Ochoa, N. (Graduate Student). Accepted into medical school in the University of Illinois – Urbana-Champaign (enrolled: Fall 2015).
23. Ochoa, N. (Graduate Student). Successfully defended her MS thesis. (August 2015)
24. Madansingh, S. (Graduate Student): Candidacy project accepted as a published manuscript. Student is first author (Madansingh & Gorniak 2014, *Journal of Applied Biomechanics* 31(2): 95-101). Role: Advisor, senior & corresponding author on manuscript.
25. Ochoa, N. (Graduate Student): Data from undergraduate research project contributes to a published manuscript. Student is first author (Ochoa & Gorniak 2014, *Muscle & Nerve* 50(6): 984-990). Role: Advisor, senior author on manuscript.

26. Ochoa, N. (Graduate Student): Data from undergraduate research project contributes to a published manuscript. Student has co-authorship (Gorniak et al. 2014, *Experimental Brain Research* 232(4):1283-91). Role: Advisor, first author on manuscript.

Undergraduate Student Achievements

1. Clement, A. (Undergraduate REU Student): Data from summer REU project contributes to a published manuscript. Student is first author (Clement et al. 2025, *Journal of Applied Biomechanics* 41(3): 223-232). Role: Advisor, senior & corresponding author on manuscript.
2. Gugala, M. (Undergraduate Student). Accepted into medical school at the University of Texas Medical Branch (enrolled for Fall 2025).
3. Watson, N. (Undergraduate Student). Accepted into PhD program at the University of Texas Institute for Neuroscience (enrolled for Fall 2024).
4. Vu, J. (Undergraduate Student): Accepted to the NIH R25 Neuromotor Skill Advancement For Post-Baccalaureates (NSAP) Program at the University of Houston. (April 2024).
5. Gugala, M. (Undergraduate Student): Accepted to the Summer Undergraduate Research Internship (SURI) Program in Translational Research at Houston Methodist Hospital. (June 2023).
6. Gugala, M. (Undergraduate Student): Awarded the Provost's Undergraduate Research Scholarship (PURS) from the University of Houston Honors College. \$1,000 (November 2022).
7. Do, T. (Undergraduate Student): Awarded the Provost's Undergraduate Research Scholarship (PURS) from the University of Houston Honors College. \$1,000 (November 2022).
8. Ansari, S. (Undergraduate Student). Accepted into medical school at the University of Texas Southwestern Medical Center (enrolled for Fall 2020).
9. Khan, A., Ansari, S., Thames, B.H., Ray, H., Lu, Y.F., & Watson, N. (Undergraduate Students). Data from collaborative projects contribute to a published manuscript. Students are co-authors (Gorniak et al., 2020, *PLoS One*. 15(11): e0242199). Role: Advisor, senior author on manuscript
10. Ray, H. (Undergraduate Student): Data from undergraduate research project contributes to a published manuscript. Student is second author (Gorniak et al. 2019, *OTJR: Occupation, Participation and Health*. 40(2): 113-121). Role: Advisor, senior & corresponding author on manuscript.
2. Lu, F.Y. (Undergraduate Student): Data from undergraduate research project contributes to a published manuscript. Student is second author (Gorniak et al. *Diabetes/Metabolism Research and Reviews*. 2018; e3089.) Role: Advisor, senior & corresponding author on manuscript.
3. Lu, F.Y. (Undergraduate Student). Accepted into medical school at the University of Texas – Health Science Center at Houston, McGovern Medical School (enrolled for Fall 2017).
4. Younes, L. (Undergraduate Student): Data from undergraduate research project contributes to a published manuscript. Student is second author (Pollonini et al. 2017, *Muscle & Nerve* 56(3): 472-478). Role: Advisor, senior & corresponding author on manuscript.
5. Thames, B. (Undergraduate Student): Data from undergraduate thesis contributes to a published manuscript. Student is first author (Thames & Gorniak 2017, *Journal of Applied Biomechanics*. 33(3): 185-188). Role: Advisor, senior & corresponding author on manuscript.
6. Thames, B. (Undergraduate Student). Accepted into medical school at the University of Texas – Medical Branch (enrolled for Fall 2016).
7. Thames, B. (Undergraduate Student): Successfully defended her honors thesis. (May 2016)

8. Younes, L. (Undergraduate Student). Accepted into medical school at Texas Tech University (enrolled for Fall 2016).
9. Khan, A. (Undergraduate Student): Accepted into Masters of Healthcare Administration Program at the Texas Women's University, Houston, TX. (enrolled: Spring 2016)
10. Khan, A. (Undergraduate Student): Data from undergraduate research project contributes to a published manuscript. Student is first author (Khan & Gorniak 2015, *Motor Control* 20(3): 299-315). Role: Advisor, senior & corresponding author on manuscript.
11. Younes, L. (Undergraduate Student): Awarded the Provost's Undergraduate Research Scholarship (PURS) from the University of Houston Honors College. \$1,000 (May 2015).
12. Ansari, S. (Undergraduate Student): Accepted into Masters of Athletic Training Program at the University of Houston, Houston, TX. (enrolled: Fall 2015).
13. Ray, H. (Undergraduate Student): Accepted into Masters of Occupational Therapy Program at the University of Texas Medical Branch (UTMB), Galveston, TX. (enrolled: Fall 2015).
14. Khan, A. (Undergraduate Student): Data from undergraduate research project contributes to a published manuscript. Student has co-authorship (Gorniak et al. 2014, *Experimental Brain Research* 232(4):1283-91). Role: Advisor, first author on manuscript.
15. Ochoa, N. (Graduate Student): Awarded third place in the Health and Human Performance Annual Elevator Speech Competition. \$500 (October 2013)
16. Ochoa, N. (Undergraduate Student): Data from undergraduate research project contributes to a published manuscript. Student has co-authorship (Gorniak et al. 2014, *Experimental Brain Research* 232(4):1283-91). Role: Advisor, first author on manuscript.
17. Ochoa, N. (Undergraduate Student): Awarded Undergraduate Research Travel Fellowship (URTF) from the University of Houston Honors College. \$750 (September 2012).
18. Ochoa, N. (Undergraduate Student): Awarded the Summer Undergraduate Research Fellowship (SURF) from the University of Houston Honors College. \$3,500 (May 2012).

AWARDS, HONORS, AND SCHOLARSHIPS

Travel Awards

1. Awarded Provost's Faculty Travel Fund from the Office of the Provost at the University of Houston to attend the 2019 Winter Conference on Brain Research Meeting, Snowmass, CO, \$1,200 (January 2019).
2. Awarded American Heart Association (AHA) Mentor-Mentee Travel Grant as a Mentee to the Annual AHA Scientific Sessions Conference, Chicago, IL, \$1,500 (November 2018). Awarded American Heart Association (AHA) Research Leaders Academy Travel Grant to AHA Research Leaders Meeting, Salt Lake City, UT, \$1,500 (August 2018).
3. Awarded American Heart Association (AHA) Mentor-Mentee Travel Grant as a Mentee to the Annual AHA Scientific Sessions Conference, Anaheim, CA, \$1,500 (November 2017). Awarded American Heart Association (AHA) Research Leaders Academy Travel Grant to AHA Research Leaders Meeting, Denver, CO, \$1,500 (September 2017).
4. Awarded American Heart Association (AHA) Mentor-Mentee Travel Grant as a Mentee to the Annual AHA Scientific Sessions Conference, New Orleans, LA, \$1,500 (November 2016). PI & Mentor: Cynthia Dougherty, ARNP, PhD, FAHA, FAAN (University of Washington).
5. Awarded Provost's Faculty Travel Fund from the Office of the Provost at the University of Houston to attend the 45th Annual Society for Neuroscience Meeting, Chicago, IL, \$1,200, (October 2015).
6. Awarded Provost's Faculty Travel Fund from the Office of the Provost at the University of Houston to attend the 44th Annual Society for Neuroscience Meeting, Washington, DC, \$1,200, (November 2014).

7. Awarded Provost's Faculty Travel Fund from the Office of the Provost at the University of Houston to attend the 42nd Annual Society for Neuroscience Meeting, New Orleans, LA, \$750 (October 2012).

Honors

1. Awarded Outstanding Physics Major of the Year, Pennsylvania State University – Erie, The Behrend College (May 2004).
2. Behrend Honors Program Certificate, Pennsylvania State University – Erie, The Behrend College (May 2002)

Scholarships

1. Ottis and Beatrice Hirtzel Foundation Scholarship, Ottis and Beatrice Hirtzel Foundation, North East, PA, \$12,000 (2000 – 2004)
2. Pennsylvania State Alumni II Scholarship - Pennsylvania State University – Erie, The Behrend College, \$1,000 (2000 - 2001).
3. Hagan Family Scholarship - Pennsylvania State University – Erie, The Behrend College, \$1,000 (2000 - 2001).

COMMUNITY SERVICE

1. Poster Judge for 31st Keck Annual Research Conference: Infectious Diseases: Emerging Threats and Emerging Technologies (October 2021)
2. Poster Judge for Annual University of Texas at Austin's Cellular to Clinically Applied Rehabilitation Research and Engineering Conference (April 2021)
3. AHA Circle of Red – Faculty Liaison Invitation (May 2018)
4. Served as a judge for the 2016 Mission Connect Symposium, University of Texas Health Science Center – Houston, Houston, TX (December 2016).
5. Served as a judge for the Gulf Coast Consortium for Translational Pain Research 6th Annual Symposium. Judging included distinguished trainee talk selection, trainee talk evaluation, and poster evaluation. Gulf Coast Consortia for Quantitative Biomedical Sciences, Rice University, Houston, TX (April 2016).
6. Served as a judge for the 2015 Mission Connect Symposium, University of Texas Health Science Center – Houston, Houston, TX (December 2015).
7. Invited member of a Career Day panel at the Aldine Family Hope Center, Houston, TX (May 2015).

PROFESSIONAL DEVELOPMENT

Associate Professor Level

1. Accepted to UH Academic Women in Leadership Program (February 2023 – May 2023).
2. Certified Phlebotomy Technician (C.P.T.) – American Certification Agency for Healthcare Professionals, Certificate #007730 via Houston Community College Continuing Education Program – Phlebotomy Technician, Houston, TX (January 2022 - July 2022)
3. Invited & Accepted as Mentee in the National Research Mentoring Network (NRMN) Strategic Empowerment Tailored for Health Equity Investigators (SETH) Coaching Group, Cohort 3 (2021)
4. Top Hat Level 1 Certification – Top Hat Monocle (August 2020)
5. Accepted to UH Cougar Chairs Leadership Academy (CCLA) (August 2020 – May 2021).

6. Applied to participate in the IDA Science and Technology Policy Institute (STPI) NIH R01 resubmission workshop (July 2020).
7. Nominated by Dean Tillis for the UH Cougar Chairs Leadership Academy (CCLA) (July 2020).
8. Attended virtual REACT & NM4R Joint One-Day Workshop on Design & Analysis of Clinical Trials in Neuromodulation. (April 27, 2020).
9. Began training as facilitator to Science Communication Advances Research Excellence (SCOARE) Workshop – Houston, TX, Sponsored by National Institute of General Medical Sciences (NIGMS) (Fall 2019).
10. Audited PSYC 6397 (Introduction to Neuroimaging Methods), UH Department of Psychology (Spring 2019)
11. Attended Science Communication Advances Research Excellence (SCOARE) Workshop – Houston, TX, Sponsored by National Institute of General Medical Sciences (NIGMS). December 2018.
12. Attended the Annual American Heart Association’s Scientific Sessions Conference, Chicago, IL, November 2018.
13. Attended Annual American Heart Association’s Research Leaders Academy, Salt Lake City, UT, August 2018.
14. Attended Annual American Heart Association’s Research Leaders Academy, Denver, CO, September 2017.

Assistant Professor Level

1. Attended the Annual American Heart Association’s Scientific Sessions Conference, New Orleans, LA, November 2016.
2. Invited investigator to the inaugural Gulf Coast Diabetic Lower Extremities Workshop, University of Texas – Medical Branch, Galveston, TX, April 2016.
3. Attended the 5th Annual Symposium on Frontotemporal Dementia, Nantz National Alzheimer Center, Houston Methodist Hospital, Houston, TX, February 2016.
4. Attended Annual Neuro-Engineering Symposium – Gulf Coast Cluster for Neuro-Engineering, Gulf Coast Consortia for Quantitative Biomedical Sciences, Rice University, Houston, TX, October 2015.
5. Attended Research Mentor Training Workshop for Faculty – Gulf Coast Consortia, for Quantitative Biomedical Sciences, Rice University, Houston, TX, December 2014.
6. Attended Annual Neuro Engineering Symposium – Gulf Coast Cluster for Neuro Engineering, Gulf Coast Consortia for Quantitative Biomedical Sciences, Rice University, Houston, TX, October 2014.
7. Attended the Inaugural Regenerative Medicine Symposium – Gulf Coast Cluster for Regenerative Medicine, Gulf Coast Consortia for Quantitative Biomedical Sciences, Rice University, Houston, TX, October 2014.
8. Attended Advances in Neurology VII– Houston Methodist Neurological Institute, Houston Methodist Hospital, Houston, TX, September 2014.
9. Attended the Annual Neuro Engineering Symposium – Gulf Coast Cluster for Neuro Engineering, Gulf Coast Consortia for Quantitative Biomedical Sciences, Rice University, Houston, TX, October 2013.
10. Attended Advances in Neurology VI – Houston Methodist Neurological Institute, Houston Methodist Hospital, Houston, TX, September 2013.
11. Attended Biomechanics and Motor Control Symposium - In Celebration of Professor Vladimir M. Zatsiorsky’s 80th Birthday (Z-fest), Pennsylvania State University, University Park, PA, April 2013.

12. Attended International Workshop on Clinical Brain-Neural Machine Interface Systems, Houston Methodist Hospital, Houston, TX, February 2013.
13. Panel Member, TIRR Memorial Herman Invited Panel on Collaboration in Human Performance Research, Houston, TX, November 2012.
14. Attended the National Center for Human Performance Annual Meeting – Texas Medical Center, Houston, TX, November 2012.
15. Attended Advances in Neurology V – Houston Methodist Neurological Institute, Houston Methodist Hospital, Houston, TX, September 2012.
16. Attended the Nebraska Biomechanics Core Facility Non-Linear Analysis Summer Workshop - University of Nebraska - Omaha, Omaha, NE, August 2012.
17. Attended the National Center for Human Performance Annual Meeting – Texas Medical Center, Houston, TX, November 2011.
18. Attended Advances in Neurology IV – Houston Methodist Neurological Institute, Houston Methodist Hospital, Houston, TX, September 2011.

Post-Doctoral Level

1. Attended Motor Control Summer School VII – International Society of Motor Control, Ligonier, PA, June 2011.
2. Attended NIH Regional Seminar for Program Funding and Grants Administration, Scottsdale, AZ, April 2011.

Graduate Level

1. Session Co-Chair – American Society of Biomechanics, University Park, PA, August 2009.
2. Attended Motor Control Summer School V – International Society of Motor Control, Val des Lacs, QC, July 2008.
3. Attended Motor Control Summer School IV – International Society of Motor Control, Ligonier, PA, June 2007.
4. Student Moderator – North Eastern American Society of Biomechanics, College Park, MD, March 2007.