

William (Hank) Murrah

Associate Professor

Education

2010 **Ph.D.**, *University of Virginia*, Charlottesville, VA.

1998 **M.Ed.**, *University of Montevallo*, Montevallo, AL.

1993 **B.S.**, *University of Montevallo*, Montevallo, AL.

Nobel Prizes

1903 Nobel Prize in Physics. Awarded for her work on radioactivity with Pierre Curie and Henri Becquerel

1911 Nobel Prize in Chemistry. Awarded for the discovery of radium and polonium

Publications

1. Schmid, D., Blanton, R., White, T., Murrah, W. M., & Kneely, K. (2021). *Withdrawn behavior influences engagement in vigorous and moderate physical activity*. 43, S89–S89.
2. Parks, A. G., Murrah, W. M., Weimar, W. H., McHenry, P. A., Bigham, D., Giordano, K., & Sefton, J. M. (2022). Impact of two types of fitness programs on soldier physical fitness. *International Journal of Exercise Science*, 15(4), 1326–1346.
3. Oldfather, T., Zabala, M., Goodlett, M., & Murrah, W. M. (2020). Knee valgus versus knee abduction angle: Comparative analysis of medial knee collapse definitions in female athletes. *Journal of Biomechanical Engineering*, 142(12). <https://doi.org/10.1115/1.4047549>
4. Neely, K., Zhang, Z., & Murrah, W. M. (2021). *Variability in motor control: Multilevel modeling reveals meaningful differences in force output*. 43, S41–S41.
5. Murrah, W. M., Kosovich, J., & Hulleman, C. S. (2016). Treatment fidelity in studies of educational intervention. In G. Roberts, S. Vaughn, S. N. Beretvas, & V. Wong (Eds.), *Treatment fidelity in studies of educational intervention* (pp. 39–60). Routledge. <https://doi.org/10.4324/9781315734262>
6. Murrah, W. M. (2010). *Comparing Self-Regulatory and Early Academic Skills as Predictors of Later Math, Reading, and Science Elementary School Achievement* (Vols. 72–1) [PhD thesis, Dissertation Abstracts International]. <https://eric.ed.gov/?id=ED522253>
7. Murrah, W. M. (2020). Compound bias due to measurement error when comparing regression coefficients. *Educational and Psychological Measurement*, 80(3), 548–577. <https://doi.org/10.1177/0013164419874494>

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8. Lyons, K. D., Parks, A. G., Dadematthews, O., Zandieh, N., McHenry, P., Games, K. E., Goodlett, M. D., Murrah, W. M., Roper, J., & Sefton, J. M. (2021). Core and whole body vibration exercise influences muscle sensitivity and posture during a military foot march. *International Journal of Environmental Research and Public Health*, 18(9), 4966. <https://doi.org/10.3390/ijerph18094966>
9. Lyons, K. D., Parks, A. G., Dadematthews, O. D., Zandieh, N. L., McHenry, P. A., Games, K. E., Goodlett, M. D., Murrah, W. M., Roper, J. A., & Sefton, J. M. (2023). Core and whole-body vibration exercise improve military foot march performance in novice trainees: A randomized controlled trial. *Military Medicine*, 188(1-2), e254–e259. <https://doi.org/10.1093/milmed/usab294>
10. Larson, J., Roper, J., Murrah, W. M., & Zabala, M. (2022). Cognitive dual-task alters local dynamic stability of lower extremity during common movements. *Journal of Biomechanics*, 137, 111077. <https://doi.org/10.1016/j.jbiomech.2022.111077>
11. Kim, H., Schmidt, K. M., Murrah, W. M., Cameron, C. E., & Grissmer, D. (2015). A rasch analysis of the KeyMath-3 diagnostic assessment. *Journal of Applied Measurement*, 16(4), 365–378. <https://pubmed.ncbi.nlm.nih.gov/26771566/>
12. Kim, H., Murrah, W. M., Cameron, C. E., Brock, L. L., Cottone, E. A., & Grissmer, D. (2015). Psychometric Properties of the Teacher-Reported Motor Skills Rating Scale. *Journal of Psychoeducational Assessment*, 33(7), 640–651. <https://doi.org/10.1177/0734282914551536>
13. Grissmer, D., Grimm, K. J., Aiyer, S. M., Murrah, W. M., & Steele, J. S. (2010). Fine motor skills and early comprehension of the world: Two new school readiness indicators. *Developmental Psychology*, 46(5), 1008. <https://doi.org/10.1037/a0020104>
14. Frugé, A. D., Smith, K. S., Riviere, A. J., Tenpenny-Chigas, R., Demark-Wahnefried, W., Arthur, A. E., Murrah, W. M., Pol, W. J. van der, Jasper, S. L., Morrow, C. D., Arnold, R. D., & Braxton-Lloyd, K. (2021). A dietary intervention high in green leafy vegetables reduces oxidative DNA damage in adults at increased risk of colorectal cancer: Biological outcomes of the randomized controlled meat and three greens (m3g) feasibility trial. *Nutrients*, 13(4), 1220. <https://doi.org/10.3390/nu13041220>
15. Frugé, A., Smith, K., Riviere, A., Demark-Wahnefried, W., Arthur, A., Murrah, W. M., Morrow, C., Arnold, R., & Braxton-Lloyd, K. (2019). Primary outcomes of a randomized controlled crossover trial to explore the effects of a high chlorophyll dietary intervention to reduce colon cancer risk in adults: The Meat and Three Greens (M3G) Feasibility Trial. *Nutrients*. <https://doi.org/10.3390/nu11102349>
16. Friesen, K. B., Barfield, J. W., Murrah, W. M., Dugas, J. R., Andrews, J. R., & Oliver, G. D. (2019). The association of upper-body kinematics and earned run average of national collegiate athletic association division I softball pitchers. *Journal of Strength and Conditioning, Publish Ahead of Print*. <https://doi.org/10.1519/jsc.0000000000003287>
17. Chesser, S., Murrah, W. M., & Forbes, A., Sean. (2020). Impact of personality on choice of instructional delivery and students' performance. *American Journal of Distance Education*. <https://doi.org/10.1080/08923647.2019.1705116>
18. Cameron, C. E., Cottone, E. A., Murrah, W. M., & Grissmer, D. W. (2016). How are motor skills linked to children's school performance and academic achievement? *Child Development Perspectives*. <https://doi.org/10.1111/cdep.12168>
19. Cameron, C. E., Brock, L. L., Murrah, W. M., Bell, L. H., Worzalla, S. L., Grissmer, D., & Morrison, F. J. (2012). Fine Motor Skills and Executive Function Both Contribute to Kindergarten Achievement. *Child Development*, 83(4), 1229–1244. <https://doi.org/10.1111/j.1467-8624.2012.01768.x>

20. Brock, L., Murrah, W. M., Cottone, E. A., Mashburn, A. J., & Grissmer, W., David. (2018). An after-school intervention targeting executive function and visuospatial skills also improves classroom behavior. *International Journal of Behavioral Development*, 1–11. <https://doi.org/10.1177/0165025417738057>
21. Brinkerhoff, S. A., Murrah, W. M., Hutchison, Z., Miller, M., & Roper, J. A. (2019). Words matter: Instructions dictate “self-selected” walking speed in young adults. *Gait & Posture*. <https://doi.org/10.1016/j.gaitpost.2019.07.379>
22. Brinkerhoff, S. A., Mathew, G. M., Murrah, W. M., Chang, A.-M., Roper, J. A., & Neely, K. A. (2022). Sleep restriction impairs visually and memory-guided force control. *PLOS ONE*, 17(9), e0274121. <https://doi.org/10.1371/journal.pone.0274121>
23. Bacelar, M. F. B., Parma, J. O., Murrah, W., & Miller, M. (2021). *Meta-analysis of enhanced expectancies in motor learning*. 43, S27–S28.