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## Charles H. Hillman, Ph.D.

Professor  
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### Professional Experience

2017-present	Director Northeastern University Center for Cognitive and Brain Health
2016-present	Professor Northeastern University Department of Psychology Department of Health Sciences
2016-present	Adjunct Professor University of Illinois Department of Kinesiology & Community Health
2016-present	Adjunct Professor Research in Childhood Health Scientific Advisory Board Member Syddansk Universitet (University of Southern Denmark) Faculty of Health Sciences
2012-2016	Professor
2006-2012	Associate Professor
2000-2006	Assistant Professor University of Illinois at Urbana-Champaign, Urbana, IL Department of Kinesiology & Community Health Department of Psychology Department of Internal Medicine, College of Medicine Affiliate of the Beckman Institute - Human Perception & Performance Division Affiliate of the University of Illinois Neuroscience Program Affiliate of the Division of Nutritional Sciences

## Education

- 2000      Doctor of Philosophy  
            Department of Kinesiology  
            University of Maryland at College Park, College Park, MD
- 1997      Master of Science  
            Department of Exercise and Sport Sciences  
            University of Florida, Gainesville, FL
- 1994      Bachelor of Arts  
            University of Miami, Coral Gables, FL

## Honors

- 2015      Elected to the National Academy of Kinesiology (Fellow #550)
- 2015      Applied Health Sciences Graduate Student Mentor Award
- 2015      College of Agricultural, Consumer, & Environmental Sciences Team Award for Excellence
- 2012      King James McCristal Distinguished Scholar for the College of Applied Health Sciences
- 2012      27th Meiji Yasuda Life Foundation of Health and Welfare Research Grant  
            Outstanding Research Award (Kamijo & Hillman)
- 2012      Society for Psychophysiological Research Student Poster Award (Eric Drollette)
- 2011      Applied Health Sciences Excellence in Guiding Undergraduate Research Award
- 2007-2015      University of Illinois List of Teachers Ranked as Excellent by Their Students
- 2007      University of Florida Outstanding Young Alumnus
- 2007      The Institute for International Sport's 100 Most Influential Sports Educators
- 2005-2008      National Institutes of Health, Loan Repayment Grant Program Recipient
- 1999-2000      National Institute of Mental Health, Ruth L. Kirschstein National Research Service Award for Individual Predoctoral Fellows (F31)

## Scholarship

### Publications

#### *Edited Texts*

1.      Boecker, H., **Hillman, C. H.**, Scheef, L., Strüder, H. K. (2012). *Functional Neuroimaging in Exercise and Sport Sciences*. Springer Publishing Co: New York, NY: DOI: 10.1007/978-1-4614-3293-7

#### *Chapters in Texts*

1.      **Hillman, C. H.** & Castelli, D. M. (2017). Future directions: rigorous research design and authentic application of neuroscience. In R. Meeusen, S. Schaefer, P. Tomporowski & R. Bailey,

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- (Eds.), *Physical Activity and Educational Achievement: Insights from Exercise Neuroscience* (pp. 63-74). Routledge, Taylor & Francis Group: London & New York.
2. Marques, A., **Hillman, C. H.**, & Sardinha, L. B. (in press). Physical activity, cardiorespiratory fitness and academic achievement. In XXX (Eds.), *Health and Academic Achievement* (pp. XXXX). InTechOpen, ISBN: 978-953-51-5714-4
  3. McAuley, E., Mullens, S., & **Hillman, C.H.** (2013). The relation of aerobic fitness to brain health and cognition across the human lifespan. In P.A. Hall (Ed.), *Social Neuroscience and Public Health: Foundations of an Emerging Discipline* (pp. 235-252). Springer Publishing Co: New York, NY. DOI: 10.1007/978-1-4614-6852-3\_14
  4. **Hillman, C. H.** & Erickson, K. I. (2012). Cognition, Exercise. In F.-C. Mooren & J. S. Skinner (Eds.), *The Encyclopedia of Exercise Medicine in Health and Disease*. Springer-Verlag, LLC: New York, NY.
  5. **Hillman, C. H.**, Kamijo, K., & Pontifex, M. B. (2012). Effects of Exercise on Cognitive Processing Studied by ERPs in Children and Young Adults. In H. Boecker, **C.H. Hillman**, L. Scheef, H.K. Strüder (Eds.), *Functional Neuroimaging in Exercise and Sport Sciences* (pp. 419-446). Springer: New York, NY. DOI: 10.1007/978-1-4614-3293-7\_18
  6. Castelli, D. M. & **Hillman, C. H.** (2012). Physical activity, cognition, and school performance: From neurons to neighborhoods. In A. Meyer & T. Gullotta (Eds.), *Physical Activity Across The Lifespan: Prevention and Treatment for Health and Well-Being* (pp. 41-64). Springer, Inc: New York, NY.
  7. **Hillman, C. H.**, Buck, S. M., & Themanson, J. T. (2009). Physical activity and neurocognitive function across the lifespan. In W. Chodzko-Zajko, A.F. Kramer, & L. Poon (Eds.), *Aging Exercise, and Cognition Series: Enhancing Cognitive Functioning and Brain Plasticity, Volume III* (pp. 85-110). Human Kinetics: Champaign, IL.
  8. **Hillman, C. H.**, Pontifex, M. B., & Themanson, J. T. (2009). Acute Aerobic Exercise Effects on Event-Related Brain Potentials. In T. McMorris, M. Audiffren, & P. Tomporowski (Eds.), *Exercise and Cognition* (pp. 161-180). John Wiley and Sons, Inc: New York, NY.
  9. Kramer, A. F., & **Hillman, C. H.** (2006). Aging, physical activity, and neurocognitive function. In E. Acevado & P. Ekkekakis (Eds.), *Psychobiology of Physical Activity* (pp. 45-59). Human Kinetics: Champaign, IL.
  10. Janelle, C. M., & **Hillman, C. H.** (2003). Expert performance in sport: Current Perspectives and Critical Issues. In K.A. Ericsson & J. Starkes (Eds.), *Recent Advances in Research on Sport Expertise* (pp. 19-47). Human Kinetics: Champaign, IL.
  11. Hatfield, B. D., & **Hillman, C. H.** (2001). The psychophysiology of sport: A mechanistic understanding of the psychology of superior performance. In R.N. Singer, H.A. Hausenblaus, & C.M. Janelle (Eds.), *Handbook of Sport Psychology* (pp. 362-386). John Wiley: New York, NY.

1. IOM (Institute of Medicine of the National Academies) (2013). *Educating the Student Body: Taking Physical Activity and Physical Education to School*. Washington, DC: The National Academies Press.

#### *Monographs*

1. **Hillman, C. H.** (2014). The relation of childhood physical activity to brain health, cognition, and scholastic achievement. *Monographs of the Society for Research in Child Development*, 79, 1-189. (invited).

#### *Peer Reviewed Journal Articles (In print or accepted)*

1. Drollette, E. S., Pontifex, M. B., Raine, L. B., Scudder, M. S., Moore, R. D., Kao, S.-C., Westfall, D. W., Wu, C.-T., Kamijo, K., Castelli, D. M., Khan, N. A., Kramer, A. F., & **Hillman, C. H.** (in press). Effects of the FITKids physical activity randomized controlled trial on conflict monitoring in youth. *Psychophysiology*.
2. Daugherty, A. N., Zwillling, C., Paul, E. J., Sherpa, N., Allen, C., Kramer, A. F., **Hillman, C. H.**, Cohen, N. J., & Barbey, A. K. (in press). Multi-modal fitness and cognitive training to enhance fluid intelligence. *Intelligence*.
3. Chojnacki, M. R., Raine, L. B., Drollette, E. S., Scudder, M. R., Kramer, A. F., **Hillman, C. H.**, & Khan, N. A. (in press). The negative influence of adiposity extends to intraindividual variability in cognitive control among preadolescent children. *Obesity*.
4. Syväoja, H. J., Kankaanpää, A., Kallio, J., Hakonen, H., Kulmala, J., **Hillman, C. H.**, Pesonen, A.-K., Tammelin, T. H. (in press). The relation of physical activity, sedentary behaviors and academic achievement are mediated by fitness and bedtime. *Journal of Physical Activity and Health*.
5. Kern, B. D., McLoughlin, G. M., Graber, K. C., Shen, S., & **Hillman, C. H.** (in press). Association of school-based physical activity opportunities, socioeconomic status, and third grade reading. *Journal of School Health*. doi: 10.1111/josh.12581
6. Ward, N., Paul, E. J., Watson, P. D., Cooke, G. E., **Hillman, C. H.**, Cohen, N. J., Kramer, A. F., & Barbey, A. K. (in press). Enhanced Learning through Multimodal Training: Evidence from a Comprehensive Cognitive, Physical Fitness, and Neuroscience Intervention. *Scientific Reports*.
7. Walk, A. M., Khan, N. A., Barnett, S. M., Raine, L. B., Kramer, A. F., Cohen, N. J., Moulton, C. J., Renzi-Hammond, L. M., Hammond, B. R., & **Hillman, C. H.** (in press). From neuro-pigments to neural efficiency: the relationship between retinal carotenoids and behavioral and neuroelectric indices of cognitive control in childhood. *International Journal of Psychophysiology*.
8. Raine, L. B., Khan, N. A., Drollette, E. S., Pontifex, M. B., Kramer, A. F., & **Hillman, C. H.** (in press). Obesity, visceral adipose tissue, and cognitive function in childhood. *The Journal of Pediatrics*.

9. Bugge, A., Moller, S., Tarp, J., **Hillman, C. H.**, Lima, R. A., Gejl, A. K., & Wedderkopp, N. (in press). Influence of a two to six year physical education intervention on scholastic performance; The CHAMPS study-DK. *Scandinavian Journal of Medicine and Science in Sports*.
10. Marques, A., Santos, D. A., **Hillman, C. H.**, Sardinha, L. B. (2017). How does academic achievement relate to cardiorespiratory fitness, self-reported physical activity and objectively reported physical activity: A systematic review in children and adolescents aged 6-18 years. *British Journal of Sports Medicine*. doi:10.1136/bjsports-2016-097361
11. Donnelly, J. E., **Hillman, C. H.**, Greene, J. L., Hansen, D. M., Gibson, C. A., Sullivan, D. K., Poggio, J., Mayo, M. S., Lambourne, K., Szabo-Reed, A. N., Herrmann, S. D., Honas, J. J., Scudder, M. S., Betts, J. L., Henley, K., Hunt, S. L., & Washburn, R. A. (in press). Physical activity and academic achievement across the curriculum: results from a 3-year cluster-randomized trial. *Preventive Medicine*.
12. Schwarb, H., Johnson, C. L., Daugherty, A. M., **Hillman, C. H.**, Kramer, A. F., Cohen, N. J., & Barbey, A. K. (in press). Aerobic fitness, hippocampal viscoelasticity and relational memory performance. *NeuroImage*.
13. Felez-Nobrega, M., Foster, J. L., Puig-Ribera, A., & **Hillman, C. H.** (in press). Measuring working memory in the Spanish population: validation of a multiple shortened complex span task. *Psychological Assessment*.
14. Barnett, S. M., Khan, N. A., Raine, L. B., Moulton, C., Cohen, N. J., Kramer, A. F., Hammond Jr., B. R., Renzi-Hammond, L., & **Hillman, C. H.** (in press). Macular pigment optical density is positively associated with academic performance among preadolescent children. *Nutritional Neuroscience*.
15. Hassevoort, K., Khazoum, S. E., Walker, J. A., McCorkle, S. M., Raine, L. B., Hammond, B. R., Renzi-Hammond, L. M., Kramer, A. F., Khan, N. A., **Hillman, C. H.**, & Cohen, N. J. (in press). Macular carotenoids, aerobic fitness, and central adiposity are differentially associated with hippocampal-dependent relational memory in preadolescent children. *The Journal of Pediatrics*.
16. Felez-Nobrega, M., **Hillman, C. H.**, Cirera-Viñolas, E., & Puig-Ribera, A. (in press). The association of context-specific sitting time and physical activity intensity to working memory capacity and academic achievement in young adults. *European Journal of Public Health*.
17. Raine, L. B., Biggan, J. R., Baym, C. L., Saliba, B. J., Cohen, N. J., & **Hillman, C. H.** (in press). Adolescent changes in aerobic fitness are related to changes in academic achievement. *Pediatric Exercise Science*. doi: 10.1123/pes.2015-0225
18. Szabo-Reed, A. N., Willis, E. A., Lee, J., Washburn, R. A., **Hillman, C. H.**, & Donnelly, J. E. (2017). Impact of 3 years of classroom physical activity bouts on time-on-task behavior. *Medicine & Science in Sports & Exercise*, 49, 2343-2350.

19. Talukdar, T., Nikolaidis, A., Zwillling, C., Paul, E. J., **Hillman, C. H.**, Cohen, N. J., Kramer, A. F., & Barbey, A. K. (2017). Aerobic fitness explains individual differences in the functional brain connectome of healthy young adults. *Cerebral Cortex*, 1-10. doi: 10.1093/cercor/bhx232
20. Fanning, J., Roberts, S., **Hillman, C. H.**, Mullen, S. P., Ritterband, L., & McAuley, E. (2017). A smartphone app-delivered randomized factorial trial targeting physical activity in adults. *Journal of Behavioral Medicine*, 40, 712-729. doi: 10.1007/s10865-017-9838-y
21. Greenlee, T. A., Greene, D. R., Ward, N. J., Reeser, G. E., Allen, C. M., Baumgartner, N. W., Cohen, N. J., Kramer, A. F., **Hillman, C. H.**, & Barbey, A. K. (2017). Effectiveness of a 16-week high-intensity cardio-resistance training (HICRT) program in adults. *Journal of Strength and Conditioning Research*, 31, 2528-2541.
22. Kao, S.-C., Westfall, D. R., Soneson, J., Gurd, B., & **Hillman, C. H.** (2017). Comparison of the acute effects of high-intensity interval training and continuous aerobic walking on inhibitory control. *Psychophysiology*, 54, 1335-1345. doi: 10.1111/psyp.12889
23. Kao, S.-C., Drollette, E. S., Scudder, M. R., Raine, L. B., Westfall, D. R., Pontifex, M. B., & **Hillman, C. H.** (2017). Aerobic fitness is associated with cognitive control strategy in preadolescent children. *Journal of Motor Behavior*, 49, 150-162.
24. **Hillman, C. H.**, Erickson, K. I., & Hatfield, B. D. (2017). Run for your life! Childhood physical activity effects on brain and cognition. *Kinesiology Review*, 6, 12-21. (invited).
25. **Hillman, C. H.** & Biggan, J. R. (2017). A Review of Childhood Physical Activity, Brain, and Cognition: Perspectives on the Future. *Pediatric Exercise Science*, 29, 170-176. (invited). doi: 10.1123/pes.2016-0125
26. Kao, S.-C., Westfall, D. R., Parks, A. C., Pontifex, M. B., & **Hillman, C. H.**, (2017). Muscular and aerobic fitness, working memory, and academic achievement in children. *Medicine & Science in Sports & Exercise*, 49, 500-508.
27. Westfall, D. R., Kao, S.-C., Scudder, M. R., Pontifex, M. B., **Hillman, C. H.** (2017). The association of aerobic fitness on congruency sequence effects in preadolescent children. *Brain & Cognition*, 113, 85-92. <http://dx.doi.org/10.1016/j.bandc.2016.12.005>
28. Paul, E. J., Larsen, R. J., Nikolaidis, A., Ward, N., **Hillman, C. H.**, Cohen, N. J., Kramer, A. F., & Barbey, A. K. (2016). Dissociable brain biomarkers of fluid intelligence. *NeuroImage*, 137, 201-211.
29. Olson, E. A., Mullen, S. P., Raine, L. B., Kramer, A. F., **Hillman, C. H.**, & McAuley, E. (2016). Integrated social- and neuro-cognitive model of physical activity behavior in older adults with diabetes. *Annals of Behavioral Medicine*. doi: 10.1007/s12160-016-9850-4
30. Niemi, G., Raine, L. B., Khan, N. A., Emmons, R., Little, J., Kramer, A. F., **Hillman, C. H.**, & De Lisio, M. (2016). Circulating progenitor cells are positively associated with cognitive function in overweight/obese children. *Brain, Behavior, & Immunity*, 57, 47-52.

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31. Costigan, S. A., Eather, N., Plotnikoff, R. C., **Hillman, C. H.**, & Lubans, D. R. (2016). High intensity interval training on cognitive and mental health in adolescents. *Medicine & Science in Sports & Exercise*, 48, 1985-1993.
  32. Pindus, D. M., Drollette, E. S., Scudder, M. S., Khan, N. A., Raine, L. B., Sherar, L. B., Esliger, D., Kramer, A. F., & **Hillman, C. H.** (2016). Associations among moderate-to-vigorous physical activity, indices of cognitive control, and academic achievement in preadolescents. *The Journal of Pediatrics*, 173, 136-142. doi: <http://dx.doi.org/10.1016/j.jpeds.2016.02.045>
  33. Scudder, M. R., Drollette, E. S., Szabo-Reed, A. N., Lambourne, K., Fenton, C. I., Donnelly, J. E., & **Hillman, C. H.** (2016). Tracking the relationship between children's aerobic fitness and cognitive control. *Health Psychology*, 35, 967-978.
  34. Lubans, D., Richards, J., **Hillman, C. H.**, Faulkner, G., Beauchamp, M. R., Nilsson, M., Kelly, P., Smith, J. J., Raine, L., Biddle, S. J. (2016). Physical Activity for Cognitive and Mental Health in Youth: A Systematic Review of Mechanisms. *Pediatrics*, 138, e20161642.
  35. Hassevoort, K., **Hillman, C. H.**, Khan, N. A., & Cohen, N. J. (2016). Childhood markers of health behavior relate to hippocampal health, memory, and academic performance. *Mind, Brain, and Education*, 10, 162-170. (Invited).
  36. Chaddock-Heyman, L., Erickson, K. I., Chappell, M., Kienzler, C., Johnson, C., Knecht, A., Drollette, E., Raine, L. B., Scudder, M. R., Kao, S.-C., **Hillman, C. H.**, & Kramer, A. F. (2016). Aerobic fitness is associated with greater hippocampal cerebral blood flow in children. *Developmental Cognitive Neuroscience*, 20, 52-58.
  37. Tarp, J., Domazet, S. L., Froberg, K., **Hillman, C. H.**, Anderson, L. B., & Bugge, A. (2016). Effectiveness of a school-based physical activity intervention on cognitive performance in Danish adolescents: LCoMOTION – learning, cognition, and motion – a cluster randomized controlled trial. *PLoS ONE*, 11, e0158087. doi:10.1371/journal.pone.0158087
  38. Donnelly, J. E. (co-Chair), **Hillman, C. H.** (co-Chair), Castelli, D. M., Etnier, J. L., Lee, S. M., Tomporowski, P., Lambourne, K., & Szabo-Reed, A. N. (2016). Physical activity, fitness, cognitive function, and academic achievement in children: A systematic review: American College of Sports Medicine Position Stand. *Medicine & Science in Sports & Exercise*, 48, 1197-1222. (Invited)
  39. Bangsbo, J., Krstrup, P., Duda, J., **Hillman, C. H.**, Andersen, L. B., Williams, C., Lintunen, T., Green, K., Hansen, P., Naylor, P., Ericsson, I., Nielsen, G., Froberg, K., Bugge, A., Jensen, J., Schipperijn, J., Dagkas, S., Agergaard, S., Von Seelen, J., & Østergaard, C. (2016). Physical activity for children and youth in schools and during leisure time: fitness, health, cognitive functioning, motivation, and inclusion. Consensus statement from the Copenhagen Consensus Conference 2016. *British Journal of Sports Medicine*, 50, 1177-1178. doi: 10.1136/bjsports-2016-096325
  40. Moore, R. D., Pindus, D. M., Raine, L. B., Drollette, E. S., Scudder, M. R., Ellemborg, D., & **Hillman, C. H.** (2016). The persistent influence of concussion on attention, executive control

- and neuroelectric function in preadolescent children. *International Journal of Psychophysiology*, 99, 85-95.
41. Luque-Casado, A., Perakakis, P., **Hillman, C.H.**, Kao, S.-C., Llorens, F., Guerra, P., & Sanabria, D. (2016). Differences in sustained attention capacity as a function of aerobic fitness. *Medicine & Science in Sports & Exercise*, 48, 887-895.
  42. Hillman J. D., McDonell E., Hillman C. H., Handfield, M. (2016). Dental whitening effect of an oral probiotic. *Journal of Dental Oral Craniofacial Research*, 2. doi: 10.15761/DOCR.1000145.
  43. Raine, L. B., Scudder, M. R., Saliba, B. J., Kramer, A. F., & **Hillman, C. H.** (2016). Aerobic fitness and context processing in preadolescent children. *Journal of Physical Activity & Health*, 13, 94-101.
  44. Watson, P. D., Paul, E. J., Cooke, G. E., Ward, N., Allen, C., **Hillman, C. H.**, Cohen, N. J., Kramer, A. F., & Barbey, A. K. (2016). Underlying sources of cognitive-anatomical variation in multi-modal neuroimaging and cognitive testing of a large sample. *NeuroImage*, 129, 439-449.
  45. Mackenzie, M. J., Zuniga, K. E., Raine, L. B., Awick, E. A., **Hillman, C. H.**, Kramer, A. F., & McAuley, E. (2016). Associations between physical fitness indices and working memory in breast cancer survivors and age-matched controls. *Journal of Women's Health*, 25, 99-108. doi: 10.1089/jwh.2015.5246
  46. Drollette, E. S., Scudder, M. R., Raine, L. B., Moore, R. D., Pontifex, M. B., Erickson, K. I., & **Hillman, C. H.** (2016). The sexual dimorphic association of cardiorespiratory fitness to working memory in children. *Developmental Science*, 19, 90-108.
  47. Sandroff, B. M., **Hillman, C. H.**, Benedict, R. H. B., Motl, R. W. (2016). Acute effects of varying intensities of treadmill walking exercise on inhibitory control in persons with multiple sclerosis: a pilot investigation. *Physiology & Behavior*, 154, 20-27.
  48. Zuniga, K. E., Mackenzie, M., Roberts, S. R., Raine, L. B., **Hillman, C. H.**, Kramer, A. F., & McAuley, E. (2016). Relationship between fruit and vegetable intake and interference control in breast cancer survivors. *European Journal of Nutrition*, 55, 1555-1562.
  49. Sandroff, B. M., **Hillman, C. H.**, & Motl, R. W. (2015). Aerobic fitness is associated with inhibitory control in persons with multiple sclerosis. *Archives of Clinical Neuropsychology*, 30, 329-340.
  50. Chaddock-Heyman, L., Erickson, K. I., Kienzler, C., King, M., Pontifex, M. B., Raine, L. B., **Hillman, C. H.**, & Kramer, A. F. (2015). The role of aerobic fitness in cortical thickness and mathematics achievement in preadolescent children. *PLOS ONE*, 10(8), 1-11.
  51. Parks, A. C., Moore, R. D., Wu, C.-T., Broglio, S. P., Covassin, T., **Hillman, C. H.**, & Pontifex, M. P. (2015). The association between a history of concussion and variability in behavioral and neuroelectric indices of cognition. *International Journal of Psychophysiology*, 98, 426-434.

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52. McCorkle, S. M., Raine, L. B., Hammond Jr., B. R., Renzi-Hammond, L., **Hillman, C. H.**, & Khan, N. A. (2015). Reliability of Heterochromatic Flicker Photometry in Measuring Macular Pigment Optical Density among Preadolescent Children. *Foods*, 4, 594-604.
  53. Berchicci, M., Pontifex, M. B., Drollette, E. S., Pesce, C., **Hillman, C. H.**, & Di Russo F. (2015). From cognitive motor preparation to visual processing: the benefits of childhood fitness to brain health. *Neuroscience*, 298, 211-219.
  54. Khan, N. A., Raine, L. B., Drollette, E. S., Scudder, M. R., & **Hillman, C. H.** (2015). The relation of saturated fats and dietary cholesterol to childhood cognitive flexibility. *Appetite*, 93, 51-56. (invited).
  55. Pindus, D. M., Moore, R. D., **Hillman, C. H.**, Bandelow, S., Hogervorst, E., Biddle, S. J. H., & Sherar, L. B. (2015). The relation of moderate-to-vigorous physical activity to cognitive processing in adolescents. Findings from the ALSPAC birth cohort. *Psychological Research*, 79, 715-728. doi: 10.1007/s00426-014-0612-2
  56. Moore, R. D., Pindus, D. M., Drollette, E. S., Scudder, M. R., Raine, L. B., & **Hillman, C. H.** (2015). The persistent influence of pediatric concussion on attention and cognitive control during flanker performance. *Biological Psychology*, 109, 93-102.
  57. Jaakkola, T., **Hillman, C. H.**, Kalaja, S., & Liukkonen, J. (2015). The associations among fundamental movement skills, self-reported physical activity, and academic performance during junior high school in Finland. *Journal of Sports Sciences*, 33, 1719-1729. doi: 10.1080/02640414.2015.1004640
  58. Scudder, M. R., Khan, N. A., Lambourne, K., Drollette, E. S., Herrmann, S., Betts, J. L., Washburn, R., Donnelly, J. E., & **Hillman, C. H.** (2015). Cognitive Control in Preadolescent Children with Risk Factors for Metabolic Syndrome. *Health Psychology*, 34, 243-252. doi: 10.1037/hea0000114
  59. Sandroff, B. M., **Hillman, C. H.**, Benedict, R. H. B., & Motl, R. W. (2015). Acute effects of walking, cycling, and yoga exercise on cognition in multiple sclerosis. *Journal of Clinical and Experimental Neuropsychology*, 37, 209-219.
  60. Erickson, K. I., **Hillman, C. H.**, & Kramer, A. F. (2015). Physical activity, brain, and cognition. *Current Opinions in Behaviors Sciences*, 4, 27-32. (invited).
  61. Khan, N. A., Baym, C. L., Monti, J. M., Raine, L. B., Drollette, E. S., Scudder, M. R., Moore, R. D., Kramer, A. F., **Hillman, C. H.**, & Cohen, N. J. (2015). Central adiposity is negatively associated with hippocampal-dependent relational memory among overweight and obese children. *Journal of Pediatrics*, 166, 302-308. doi: 10.1016/j.jpeds.2014.10.008
  62. **Hillman, C. H.**, Khan, N. A., & Kao, S.-C. (2015). The relation of health behaviors to childhood cognition and brain health. *Annals of Nutrition & Metabolism*, 66, 1-4. (invited). doi: 10.1159/000381237

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63. Khan, N. A., Raine, L. B., Drollette, E. S., Scudder, M. R., Cohen, N. J., Kramer, A. F., & **Hillman, C. H.** (2015). The relationship between total water intake and cognitive control among prepubertal children. *Annals of Nutrition & Metabolism*, 66, 38-41. (invited).
  64. Khan, N. A., Raine, L. B., Drollette, E. S., Scudder, M. R., Kramer, A. F., & **Hillman, C. H.** (2015). Dietary fiber is positively associated with cognitive control among prepubertal children. *The Journal of Nutrition*, 145, 143-149.
  65. Wójcicki, T. R., Grigsby-Toussaint, D., **Hillman, C. H.**, Huhman, M., & McAuley, E. (2014). Facebook and physical activity behavior change in low-active adolescence: a randomized controlled trial. *JMIR Research Protocols*, 3, e56. doi:10.2196/resprot.3013
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### *Manuscripts Submitted for Publication*

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12. Raine, L. B., Drollette, E. S., Kao, S.-C., Westfall, D., Chaddock-Heymen, L., Kramer, A. F., Khan, N. A., & **Hillman, C. H.** (2017). Visceral adipose tissue is differentially associated with achievement and cognitive function in children. *Pediatric Obesity*.
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*Abstracts (In print or accepted)*

1. Awick, E., **Hillman, C. H.**, Trihn, L., Kramer, A. F., & McAuley, E. M. (2018). Dose-response effects of acute aerobic exercise on cognitive function in breast cancer survivors. *Annals of Behavioral Medicine*.
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*Presentations, & Symposia (not included in Abstracts)*

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2. Westfall, D. R., Raine, L. B., Drollette, E. S., Scudder, M. R., Kao, S.-C., Pontifex, M. B., Kramer, A. F., & **Hillman, C. H.** (2018). Investigation of latent inhibitory control variables and aerobic fitness. *Cognitive Neuroscience Society*.
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12. Schwarb, H., Johnson, C. L., **Hillman, C. H.**, Kramer, A. F., Cohen, N. J., & Barbey, A. K. (2017). Double dissociation of structure-function relationships between memory and fluid intelligence using magnetic resonance elastography. *Cognitive Neuroscience Society*.
13. Moore, R. D., **Hillman, C. H.**, & Ellemberg, D. (2016). The Persistent Influence of Concussive Injuries on the Neuroelectric and Behavioral Indices of Attention. South Carolina Institute for Mind & Brain: Neuroscience of Attention, 2nd Annual Conference.
14. Fanning, J., Roberts, S.A., **Hillman, C.H.**, Mullen, S.P., Ritterband, L., & McAuely, E. (2017). The individual and combined impact of two social cognitive smartphone modules on application usage: a randomized factorial trial. *CBC Health Conference*.

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15. Saint, S. E., Renzi-Hammond, L. M., Khan, N. A., **Hillman, C. H.**, Frick, J. E., & Hammond Jr., B. R. (2017). The Relation Between Dietary and Central Nervous System Lutein and Zeaxanthin and Cognitive Performance in Children. *Society for Research in Child Development*.
  16. Walk, A., Moulton, C., Raine, L., Kuchan, M., Cohen, N., Kramer, A., Hammond, B., Renzi-Hammond, L., **Hillman, C. H.**, & Khan, N. (2016). Macular carotenoids are positively related to academic achievement in pre-adolescent children. *European Society for Clinical Nutrition and Metabolism*.
  17. Richards, J., Lubans, D., **Hillman, C. H.**, Faulkner, G., Beauchamp, M. R., Nilsson, M., Kelly, P., Smith, J. J., Raine, L., & Biddle, S. J. (2016). Mechanistic pathways for physical activity and mental health: systematic review informing a framework for future research. *International Society of Behavioral Nutrition and Physical Activity*.
  18. Hassevoort, K. M., Lin, A., Zola, S. E., **Hillman, C. H.**, Khan, N. A., & Cohen, N. J. (2016). Dietary sugar is related to creativity performance during childhood. *Society for Neuroscience*.
  19. Schwarb, H. Johnson, C. L., Daugherty, A. M., **Hillman, C. H.**, Kramer, A. F., Cohen, N. J., & Barbey, A. K. (2016). Hippocampal viscoelasticity mediates the benefits of aerobic fitness on memory in healthy young adults. *Society for Neuroscience*.
  20. MacKenzie, M. J., Zuniga, K. E., Raine, L. B., Awick, E. A., Roberts, S. A., Chaddock-Heyman, L., **Hillman, C. H.**, Kramer, A. F., & McAuley, E. (2016). A case-control investigation of cardiorespiratory fitness on executive control in a task switching paradigm. *International Cancer & Cognition Task Force Meeting*.
  21. Hassevoort, K. M., Zola, S. E., McCorkle, S., Khan, N. A., **Hillman, C. H.**, & Cohen, N. J. (2016). Spatial reconstruction and pattern separation tasks are differentially sensitive to the relationship between health behaviors and hippocampal function. *Cognitive Neuroscience Society*.
  22. Sandroff, B. M., **Hillman, C. H.**, Benedict, R. H. B., Motl, R. W. (2016). Acute effects of varying intensities of treadmill walking exercise on cognition in persons with multiple sclerosis. *International Neuropsychological Society*.
  23. Neimiro, G., Raine, L. B., Khan, N. A., Emmons, R., Little, J., Kramer, A. F., & **Hillman, C. H.**, De Lisio, M. (2015). The relationship between circulating progenitor cells and cognitive function in overweight/obese children. *Canadian Society for Exercise Physiology*.
  24. Moore, R. D., Hillman, C. H., & Ellemberg, D. (2015). Pediatric concussion leads to persistent neurocognitive alterations: evidence from event-related brain potentials. *American Psychological Association*.
  25. Luque-Casado, A., Perakakis, P., Guerra, P., Llorens, F., Kao, S.-C., **Hillman, C.H.**, & Sanabria, D. (2015). Sport practice, cardiorespiratory fitness and vigilance in young adults: an event-related brain potential study. *20<sup>th</sup> Annual Congress of the European College of Sport Science*.

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26. Hassevoort, K. M., McCorkle, S. M., Raine, L. B., Zola, S. E., Khan, N. A., Kramer, A. F., **Hillman, C. H.**, & Cohen, N. J. (2015). Macular lutein is associated with cognitive performance in preadolescent children.
  27. Clark, R., Chaddock-Heyman, L., Hillman, C. H., Kramer, A. F., & Voss, M. (2015). Differential pattern of brain activity in relation to fitness and executive function in male and female preadolescents. *Cognitive Neuroscience Society*.
  28. Pindus, D. M., Moore, R. D., **Hillman, C. H.**, Bandelow, S., Hogervorst, E., Biddle, S. J. H., & Sherar, L. B. (2014). The relation of aerobic fitness and physical activity to cognitive processing: findings from the ALSPAC birth cohort. Poster presented to the *North American Society for Pediatric Exercise Medicine*.
  29. McAuley, E., MacKenzie, M., Zuniga, K., Awick, E., Raine, L., & **Hillman, C. H.** (2014). Objective and subjective memory impairment in breast cancer survivors: effects of fitness and nutrition. *International Psycho-Oncology Society*, 23 (suppl. 3), 312-313.
  30. Scudder, M. R., Khan, N. A., Lambourne, K., Drollette, E. S., Herrmann, S. D., Betts, J. L., Washburn, R. A., Donnelly, J. E., & **Hillman, C. H.** (2014). The influence of aerobic fitness and metabolic syndrome risk factors on cognitive control in elementary age children. Poster presented to the *International Society of Behavioral Nutrition and Physical Activity*, San Diego, CA.
  31. Pindus, D. M., Khan, N. A., Drollette, E. S., Moore, R. D., Scudder, M. R., Raine, L. B., Biddle, S. J. H., Sherar, L. B., Castelli, D. M., & **Hillman, C. H.** (2014). Physical activity intervention and changes in cognitive control in pre-pubertal children: does intensity matter? Insights from the FITKids randomized controlled trial. Poster presented to the *International Society of Behavioral Nutrition and Physical Activity*, San Diego, CA.
  32. Lynch, B., Verstynen, T., Weinstein, A. M., Khan, N. A., Raine, L. B., Scudder, M. R., Drollette, E. S., Kramer, A. F., **Hillman, C. H.**, & Erickson, E. I. (2014). Dissociable effects of lean mass versus fat mass on neuromorphology in Children. *American Psychological Society*, San Francisco, CA.
  33. Drollette, E. S., Scudder, M. R., Moore, R. D., Raine, L. B., Pontifex, M. B., & **Hillman, C. H.** (2014). The differential relation of sex on fitness and working memory in pre-pubertal children. Poster presented to the *Cognitive Neuroscience Society*, Boston MA.
  34. Moore, R. D., Raine, L. B., Drollette, E. S., Scudder, M. R., Pindus, D. M., & **Hillman, C. H.** (2014). The persistent influence of pediatric concussion on attention and cognitive control. Poster presented to the *Cognitive Neuroscience Society*, Boston MA.
  35. Raine, L. B., Saliba, B. J., Scudder, M. R., Kramer, A. F., & **Hillman, C. H.** (2014). Cardiorespiratory fitness and context processing in preadolescent children. Poster presented to the *Cognitive Neuroscience Society*, Boston MA.

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36. Olson, E. A., Drollette, E. S., Raine, L. B., **Hillman, C. H.**, & McAuley, E. (2013). Sitting time behavior and working memory. Poster presented to the *International Society of Behavioral Nutrition and Physical Activity*, Ghent, Belgium.
  37. Moore, R. D., Wu, C.-T., Pontifex, M. B., Broglio, S. P., & **Hillman, C. H.** (2012). The Persistent Influence of Concussion on Neuroelectric function and Response Variability. Poster presented to the *2<sup>nd</sup> Annual Concussion and Athletics: Brain to Behavior*. Pennsylvania State University.
  38. Moore, R. D., Broglio, S. P., & **Hillman, C. H.** (2012). Long-term Influence of Concussion on Young Adults' Sensory Processing. Poster presented to the *2<sup>nd</sup> Annual Concussion and Athletics: Brain to Behavior*. Pennsylvania State University.
  39. Baym, C. L., Monti, J. M., Khan, N. A., **Hillman, C. H.**, & Cohen, N. J. (2012). Aerobic fitness and nutrition effects on relational and item memory in preadolescent children. Poster presented to the *Society for Neuroscience*.
  40. Moore, R. D., Broglio, S. P., & **Hillman, C. H.** (2012). The long term influence of concussion sustained during early life on attention. Poster presented to the *Cognitive Neuroscience Society*.
  41. Scudder, M. R., Raine, L. B., Direito, A., Boyd, J., Federmeier, K. D., & **Hillman, C. H.** (2012). Aerobic fitness and semantic processing during sentence reading in 9-10 year old children. Poster presented to the *Cognitive Neuroscience Society*.
  42. Monti, J. M., **Hillman, C. H.**, & Cohen, N. J. (2012). Aerobic fitness enhances relational memory in preadolescent children: the FITKids randomized control trial. Poster presented to the *Cognitive Neuroscience Society*.
  43. Gothe, N., **Hillman, C. H.**, & McAuley, E. M. (2012). The effect of acute yoga and aerobic exercise on word memory and anxiety. Poster to be presented at the *3rd International Research Congress on Integrative Medicine & Health*, May 15-18 2012, Portland, Oregon.
  44. Kamijo, K., Khan, N. A., Pontifex, M. B., Scudder, M. R., Drollette, E. S., Raine, L. B., Evans, E. M., Castelli, D. M., & **Hillman, C. H.** (2011). The negative relation of adiposity to cognitive health in preadolescent children: perspectives on academic achievement. Poster presented to the *ACSM conference on physical activity, cognitive function, and academic achievement: Moving students to better performance*.
  45. Pontifex, M. B., Saliba, B. J., Raine, L. B., Picchietti, D. L., & **Hillman, C. H.** (2011). The effect of a single bout of physical activity on inhibition in children with ADHD. Poster presented to the *ACSM conference on physical activity, cognitive function, and academic achievement: Moving students to better performance*.
  46. Raine, L. B., Kamijo, K., Scudder, M. R., Wu, C.-T., Drollette, E. S., Pontifex, M. B., Castelli, D. M., & **Hillman, C. H.** (2011). The beneficial effects of an afterschool physical activity program on preadolescent cognition: the FITKids trial. Poster presented to the *ACSM conference on physical activity, cognitive function, and academic achievement: Moving students to better performance*.

47. Scudder, M. R., Raine, L. B., Dietro, A., Federmeier, K. D., & **Hillman, C. H.** (2011). The relation of aerobic fitness effects on vocabulary and academic achievement: an event-related potential study. Poster presented to *the ACSM conference on physical activity, cognitive function, and academic achievement: Moving students to better performance*.
48. Chaddock, L., Neider, M. B., Lutz, A., **Hillman, C. H.**, & Kramer, A. F (2011). Childhood aerobic fitness and successful street crossing. Poster presented to *the ACSM conference on physical activity, cognitive function, and academic achievement: Moving students to better performance*.
49. **Hillman, C. H.**, Pontifex, M. B., Raine, L. B., Castelli, D. M., Hall, E. E., & Kramer, A. F. (2009). The effects of acute aerobic exercise on the cognitive control of attention and academic achievement in preadolescent children. Poster presented to the *Society for Research in Child Development*.
50. Bost, K., Choi, Levin, R., Wong, **Hillman, C. H.**, Pontifex, M. B., Warren, Roisman, G., & Heller, W. (2009). Preschool children's organization of emotion: perceptual asymmetry, attachment representations, and behavior among peers. Poster presented to the *Society for Research in Child Development*.
51. **Hillman, C. H.**, Buck, S. M., & Castelli, D. M. (2005). Aerobic fitness and neurocognitive function in preadolescent children during flanker task performance. Poster presented to the *Cognitive Development Society*.
52. Morris, K., Doerksen, S., McAuley, E., **Hillman, C. H.**, Buck, S., Themanson, J., & Pontifex, M. (2005). Self-efficacy, cognition, and fitness in older adults. Poster presented to the *International Society for Behavioral Nutrition and Physical Activity*.
53. **Hillman, C. H.** (2005). Exercise and the aging brain. Paper presented to the American College of Sports Medicine, Nashville, TN.
54. Duley, A., Janelle, C., & **Hillman, C. H.** (2002). Exercise dependence: A psychophysiological investigation of emotional reactivity to exercise cues. Paper presented to the American Psychological Association, Chicago, IL.
55. Deeny, S., **Hillman, C.**, Janelle, C., & Hatfield, B. (2000). EEG coherence and neural efficiency in expert and non-expert marksmen. Paper presented to the Mid-Atlantic Regional American College of Sports Medicine, Split Rock, PA.
56. Janelle, C. M., **Hillman, C. H.**, Apparies, R. A., & Hatfield, B. D. (1999). Ocular and cortical measures of performance efficiency during rifle shooting. Paper presented to the American Psychological Association, Boston, MA.
57. Drobles, D. J., **Hillman, C. H.**, & Lang, P. J. (1995). Effects of food deprivation on reactivity to food cues. Poster presented to the Association for Advancement of Behavioral Therapy, Washington, DC.

*Invited Lectures & Symposia*

1. **Hillman, C. H.** “The Role of Childhood Physical Activity on Brain, Cognition, and Academic Achievement”. 2017 Symposium of the European Initiative for Exercise is Medicine. Lisbon, Portugal, September 2017. (Keynote).
2. **Hillman, C. H.** “Childhood Physical Activity on Brain, Cognition, and Achievement”. Tufts CTSI-Northeastern Research Summit, Boston, MA, September 2017.
3. **Hillman, C. H.** “The role of physical exercise and fitness on brain, cognition, and academic performance”. Active Brains for All: Exercise, Cognition, and Mental Health International Symposium. Granada, Spain, June 2017. (Keynote).
4. **Hillman, C. H.** “Childhood health and cognitive function”. Influences of Physical Activity/Exercise on Cognitive Health Across the Life Span. Basic Science World Congress Symposium. American College of Sports Medicine. Denver, CO, May, 2017.
5. **Hillman, C. H.** “Physical Activity/fitness, brain, and cognition”. Sport and Physical Activity for Children and Adolescents: Translating Science to Clinical Medicine and Public Health, Exercise is Medicine – Highlighted Symposium. American College of Sports Medicine. Denver, CO, May, 2017.
6. **Hillman, C. H.** “Run for your life! Childhood physical activity effects on brain & cognition”. University of New Castle. New Castle, Australia, May 2017.
7. **Hillman, C. H.** “The relation of childhood fitness to cognition and academic achievement”. The New South Wales Department of Education. South Wales, Australia, May 2017.
8. **Hillman, C. H.** “The relation of exercise, fitness, and adiposity to cognitive and brain health”. The Changing Brain: How Brain Plasticity, Exercise, and Nutrition Affect Function and Cognition Symposium. The American Society for Nutrition. Chicago, IL, April 2017.
9. **Hillman, C. H.** “The relation of childhood health to brain, cognition, and achievement”. New England Chapter of the American College of Sports Medicine. Westfield State University, Westfield, MA, March, 2017.
10. **Hillman, C. H.** “The relation of childhood health to brain, cognition, and achievement”. University of South Carolina, Columbia, South Carolina, February 2017.
11. **Hillman, C. H.** “Physical activity, fitness, cognition, & academic achievement in children”. 24<sup>th</sup> Finnish Conference on Sport and Exercise Medicine. Helsinki, Finland, November 2016.
12. **Hillman, C. H.** “Childhood fitness, health behaviors, brain, and cognition”. The University of Lisbon, Portugal, October 2016.

13. **Hillman, C. H.** “The relation of childhood exercise to brain, cognition, and academic achievement”. Symposium on Exercise, School Success and Best Futures, Lisbon, Portugal, October 2016. (Keynote).
14. **Hillman, C. H.** “Run for your life! Childhood physical activity effects on brain & cognition”. 86<sup>th</sup> Annual Meeting of the National Academy of Kinesiology, October 2016.
15. **Hillman, C. H.** “The relation of markers of childhood health to brain and cognition”. Department of Kinesiology, University of Massachusetts, October, 2016.
16. **Hillman, C. H.** “Exercise and the brain during youth”. The Inaugural Tom Roland Series Lecture. North American Society for Pediatric Exercise Medicine, Knoxville, TN, August, 2016.
17. **Hillman, C. H.** “The relation of childhood physical activity to brain, cognition, and learning”. The PANDA Symposium. Columbia University Medical Center. New York, April 2016.
18. **Hillman, C. H.** “Physical activity, brain & cognition, and scholastic performance in preadolescent children”. Danish Consensus conference – Children, youth and physical activity. University of Copenhagen, Snekersten, Denmark, April, 2016.
19. **Hillman, C. H.** “The relation of childhood health behaviors to brain and cognition”. The Clifford Lewis Lecture, Department of Kinesiology, University of Georgia, Athens Georgia, February 2016.
20. **Hillman, C. H.** “The relation of childhood fitness to cognition and academic achievement”. The College of Education, University of Georgia, Athens Georgia, February 2016.
21. **Hillman, C. H.** “The relation of childhood health behaviors to brain, cognition, and achievement”. Department of Kinesiology, Michigan State University, East Lansing, MI, January 2016.
22. **Hillman, C. H.** “The influence of childhood health behaviors on brain, cognition, and achievement”. Baylor University, Houston, TX, January 2016.
23. **Hillman, C. H.** “The relation of physical activity and other health behaviors to cognition, memory, and achievement”. Kisakallio, Finland, November 2015.
24. **Hillman, C. H.** “Eat wise and exercise for better brain health”. Universitat de Vic, Vic, Spain, October 2015.
25. **Hillman, C. H.** “Childhood health behaviors influence brain, cognition, and learning”. Department of Applied Physiology & Kinesiology, University of Florida, Gainesville, FL, September 2015.
26. **Hillman, C. H.** “Eat wise and exercise for better brain health”. European Academy on Child Disabilities, Copenhagen, Denmark, May 2015 (Pre-Congress Lecture).

27. **Hillman, C. H.** “The relation of childhood health behaviors to brain, cognition, and Achievement”. European Academy on Childhood Disabilities, Copenhagen, Denmark, May 2015 (Keynote).
28. **Hillman, C. H.** “Exercise and neurocognitive development in the growing child”. Pediatric Academic Societies Annual Meeting, San Diego, CA, April 2015.
29. **Hillman, C. H.** “The relation of childhood health behaviors to brain and cognition”. 8<sup>th</sup> European Youth Heart Study Symposium, Oslo, Norway, March 2015. (Keynote).
30. **Hillman, C. H.** “The relation of childhood fitness to brain health, cognition, and achievement”. Phil Lawler Dupage County Institute of Physical Education, Health, and Driver Education, Naperville, IL, February 2015.
31. **Hillman, C. H.** “Childhood physical activity and brain structure and function”. GENYOUth/National Dairy Counsel Meeting, Washington DC, January 2015.
32. **Hillman, C. H.** “The relation of childhood health behaviors to brain, cognition, and learning”. The LIKES Institute, University of Jyväskylä, Finland, November, 2014. (Keynote).
33. **Hillman, C. H.** “Childhood health behaviors influence cognitive and brain health”. The RICH Centre, University of Southern Denmark, Odense, Denmark, October 2014. (Keynote).
34. **Hillman, C. H.** “The relation of health behaviors to childhood cognitive and brain health”. The Hydration for Health Conference, Evian-Les-Baines, France, July, 2014.
35. **Hillman, C. H.** “The relation of childhood health behaviors with brain, cognition, and achievement”. The PERFORM Centre, Concordia University, Montreal, Quebec, Canada, May 2014.
36. **Hillman, C. H.** “The relation of physical activity and other health behaviors to childhood cognition, memory and achievement”. The Arkansas Children’s Nutrition Center (USDA Human Nutrition Research Center), Little Rock, AK, April 2014.
37. **Hillman, C. H.** “The relation of childhood physical activity to brain and cognition”. American Alliance for Health, Physical Education, Recreation & Dance, St. Louis, MO, April 2014.
38. **Hillman, C. H.** “The relation of physical activity and other health behaviors to childhood cognition, memory and achievement”. Barrett Honors College, Arizona State University, Phoenix, AZ, March 2014.
39. **Hillman, C. H.** “The relation of physical activity and other health behaviors to childhood cognition, memory and achievement”. The University of Rome “Foro Italico”, Rome, Italy, March 2014.
40. **Hillman, C. H.** “The relation of physical activity and other health behaviors to childhood cognition, memory and achievement”. Department of Psychology, Department of Psychiatry, Ground Rounds, The Hospital for Sick Kids, Toronto, ON, February 2014.

41. **Hillman, C. H.** “Run for your life: connecting activity, learning, and obesity”. Danone, Inc., Paris, France, December 2013.
42. **Hillman, C. H.** “The relation of health behaviors to cognition, memory and achievement”. Department of Kinesiology, University of Michigan, Ann Arbor, MI, December 2013.
43. **Hillman, C. H.** “The relationship of childhood fitness and body mass to cognitive and brain health”. Food & Nutrition Conference & Expo. Houston, TX, October 2013.
44. **Hillman, C. H.** “The relation of childhood fitness and adiposity to cognitive and brain health”. The 3<sup>rd</sup> Annual Youth-Nex Conference: Physical Health & Well-Being for Youth. Charlottesville, VA, October 2013.
45. **Hillman, C. H.** “The relation of childhood fitness to brain and cognition”. The Up Amigos! Conference, University of Illinois, Urbana-Champaign, IL, September 2013.
46. **Hillman, C. H.** “Run for your life: Connecting activity, learning, & obesity”. Let’s Go! 5-2-1-0 Childhood Obesity Conference, Portland, ME, September, 2013 (Plenary Speaker).
47. **Hillman, C. H.** “Exercise, physical activity, and cognition”. Next Practice in Physical Education and Movement Science: The 2<sup>nd</sup> NORDPLUS-IDROTT Conference, Odense, Denmark, May 2013. (Keynote Speaker).
48. **Hillman, C. H.** “The relation of childhood fitness and adiposity to brain health, cognition, and achievement”. Greentown: Naperville Illinois, Naperville, IL, April 2013.
49. **Hillman, C. H.** “The relation of childhood fitness and body mass to cognitive and brain health”. American Society for Nutrition/Experimental Biology, Boston, MA, April 2013.
50. **Hillman, C. H.** “The relation of childhood fitness to brain health, cognition, and academic achievement”. University of Virginia, Charlottesville, VA, February 2013.
51. **Hillman, C. H.** “The relation of childhood fitness to brain health, cognition, and academic achievement”. Conference on Motor and Cognitive Ability across the Lifespan, Stuttgart, Germany, February 2013.
52. **Hillman, C. H.** “The relation of fitness to brain health, cognition, and academic achievement in preadolescent children.” Department of Psychology, University of Michigan, Ann Arbor, MI, December 2012.
53. **Hillman, C. H.** “The relation of childhood fitness to brain health, cognition, and achievement.” Bradley University, Peoria, IL, November 2012.
54. **Hillman, C. H.** “The relation of fitness to brain health, cognition, and academic achievement in preadolescent children.” International Congress on Enhancement of Physical Activity and Motor Skills. Jyväskylä, Finland, November 2012. (Keynote Speaker).

55. **Hillman, C. H.** "Physical activity influences structure and function of the brain." German Federation of Sports Medicine, 100 Years of German Sports Medicine Congress. Berlin, Germany, October 2012.
56. **Hillman, C. H.** "The rationale behind improved performance in school; the effects of exercise and obesity on cognition." The National Dairy Counsel. Washington DC, September 2012.
57. **Hillman, C. H.** "Run for your life! Exercise effects on brain health, cognition, and achievement." North American Society for Pediatric Exercise Medicine. Philadelphia, PA, August 2012. (Plenary Speaker).
58. **Hillman, C. H.** "The relation of fitness to brain health, cognition, and scholastic achievement." The 20th Annual Meeting of Japan Society of Exercise and Sports Physiology. Tsukuba Japan, July 2012. (Keynote Speaker).
59. **Hillman, C. H.** "The relation of fitness to brain health, cognition, and scholastic achievement." School of Applied Physiology, Georgia Institute of Technology, May, 2012.
60. **Hillman, C. H.** "Preadolescent fitness and brain health: an educational neuroscience approach." College of Education, the University of Texas-Austin, Austin, TX, December 2011.
61. **Hillman, C. H.** "The scientific foundation for physical activity, cognition, and achievement." Urban Physical Education and Students' Academic Success. NASPE Webinar, November 2011.
62. **Hillman, C. H.** "Fitness and brain function." The Institute of Medicine Committee on Fitness Measures and Health Outcomes in Youth, National Academy of Sciences, Washington DC, November, 2011.
63. **Hillman, C. H.** "Brain health and cognition." ACSM conference on physical activity, cognitive function, and academic achievement: Moving students to better performance. Washington DC, November 2011.
64. **Hillman, C. H.** "The relation of fitness to brain health, cognition, and scholastic achievement." Education Workshop Series, University of Chicago, Chicago, IL November 2011.
65. **Hillman, C. H.** "Aerobic fitness effects on brain health, cognition, and achievement." 2011 International conference of exercise for 3 Q's: Health quotient, emotional quotient, and intelligence quotient. Taipei, Taiwan, October 2011
66. **Hillman, C. H.** "Run for your life! The benefits of exercise on cognition, memory, and achievement." National Taiwan Sports University, Taipei, Taiwan, October 2011. (Plenary Speaker).
67. **Hillman, C. H.** "Run for your life! The benefits of exercise on cognition, memory, and achievement." Centennial Conference on Motivation and Engagement, School of Education, University of Pittsburgh, Pittsburgh, PA, May 2011.

68. **Hillman, C. H.** "Fit brains: benefits of exercise on cognition, memory, and achievement." DuPage County Physical Education, Health, & Driver Ed Institute, Naperville, IL, February 2011.
69. **Hillman, C. H.** "Fit brains: benefits of exercise on cognition, memory, and achievement." Learning and the Brain Conference, Cambridge, MA, November 2010.
70. **Hillman, C. H.** "Physical activity and cognitive function in children." University of Kansas 12<sup>th</sup> Annual Obesity Conference: The Impact of Physical Activity on Academic Achievement, Overland Park, KS, September, 2010.
71. **Hillman, C. H.** "Exercise effects on brain health and cognition during childhood." The Effects of Exercise and Nutrients on Brain Function, University of Copenhagen, Copenhagen, Denmark, August, 2010.
72. **Hillman, C. H.** "Aerobic exercise and cognitive control in school age children." Developmental Neural Mechanisms of Cognitive Control: Implications for Drug Abuse, NIH, National Institute for Drug Abuse, Bethesda, MD, May, 2010.
73. **Hillman, C. H.** "Run for your Life!" TEDxUillinois Conference, University of Illinois, Champaign, IL, April, 2010.
74. **Hillman, C. H.** "Aerobic fitness and neurocognitive function during preadolescent childhood." Department of Psychology, University of Pittsburgh, PA, February, 2010.
75. **Hillman, C. H.** "Physical activity and cognitive control across the lifespan." Centre for Research on Aging, University of Quebec at Montreal, December, 2009.
76. **Hillman, C. H.** "Physical activity: does it really matter in childhood obesity?" Forum on Child Obesity Interventions, the Mexican Health Foundation, Mexico City, November, 2009.
77. **Hillman, C. H.** "Physical activity, cognition, and academic achievement in preadolescent children." University of Kansas 11<sup>th</sup> Annual Conference on the Prevention and Treatment of Overweight & Obese Individuals, Kansas City, Kansas, September, 2009.
78. **Hillman, C. H.** "Physical activity and neurocognitive function across the human lifespan." Presented to Waseda University, Waseda, Japan, January 2009.
79. **Hillman, C. H.** "Fitness and cognitive control during preadolescent childhood." Presented to the Exercise Psychology Seminar, Purdue University, IN, October 2008.
80. **Hillman, C. H.** "Run for your life! The benefits of aerobic fitness to brain and cognition in children." Presented to the Advances in Sensory and Developmental Neuroscience Seminar, Beckman Institute, University of Illinois at Urbana-Champaign, IL, October 2008.
81. **Hillman, C. H.** "Physical activity, nutrition, and neurocognitive function in children." Presented to the Division of Nutritional Sciences, University of Illinois at Urbana-Champaign, IL, September, 2008.

82. **Hillman, C. H.** "The benefits of aerobic Fitness to brain and cognition during development." Presented to the National Institute of Advanced Industrial Science and Technology. Tsukuba, Japan, July 2008.
83. **Hillman, C. H.** "Physical activity and cognition across the lifespan." Presented to the NIH National Institute on Drug Abuse (NIDA) Can Physical Activity and Exercise Prevent Drug Abuse? Promoting a Full Range of Science to Inform Prevention Workshop, the National Institutes of Health, June 2008.
84. **Hillman, C. H.** "Run for your life! The benefits of aerobic fitness to brain and cognition." Presented to the Developmental Psychology Seminar, University of Illinois at Urbana-Champaign, IL, February 2008.
85. **Hillman, C. H.** "Run for your life! The benefits of aerobic fitness to brain and cognition." Presented to the DuPage County Physical Education, Health, & Driver Ed Institute, Naperville, IL, February 2008.
86. **Hillman, C. H.** "Physical activity influences on cognitive control". Presented to Interactions Among Movement, Physical Exertion, and Cognitive Performance (IMPAC), United States Army Natick Soldier Research Development and Engineering Center, Natick, MA, June 2007.
87. **Hillman, C. H.** "Physical activity and cognitive control during early and late stages of the human lifespan". Department of Applied Physiology and Kinesiology at the University of Florida, Gainesville, FL, April 2007.
88. **Hillman, C. H.** "Physical activity and cognitive control across the lifespan". Presented to the Division of Nutritional Sciences, University of Illinois at Urbana-Champaign, IL, January 2007.
89. **Hillman, C. H.** "Emotion and motivated behavior: Postural adjustments to affective stimuli." Presented to the Department of Exercise and Sport Sciences, University of Montreal, Montreal, Canada, January 2007.
90. **Hillman, C. H.** "Physical activity and cognitive control during early and late stages of the human lifespan". Centre de Recherche En Neuropsychologie expérimentale et Cognition, University of Montreal, Montreal, Canada, January 2007.
91. **Hillman, C. H.** "Physical activity and cognitive control across the lifespan". Keynote lecture to the Center of Excellence Promotion of Health and Sport Scientific Research, Tokyo, Japan, October 2006.
92. **Hillman, C. H.** "Physical activity and neurocognitive function in preadolescent children." Plenary lecture to Brain Development & Learning: Making Sense of the Science, Vancouver BC, August 2006.
93. **Hillman, C. H.** "Physical activity and neurocognitive function during early and late stages of the lifespan." Department of Kinesiology at Arizona State University, Tempe, AZ, February 2006.

94. **Hillman, C. H.** "Physical activity and interference control during early and late stages of the lifespan." Department of Kinesiology at Pennsylvania State University, State College, PA, November 2005.
95. **Hillman, C. H.** "Physical activity and interference control during early and late stages of the lifespan." Presented at the Scripps Institute, La Jolla, CA, October 2005.
96. **Hillman, C. H.** "Physical activity and cognitive function during early and late stages of the lifespan." Presented to the Brain and Cognition Seminar, Beckman Institute, University of Illinois at Urbana-Champaign, IL, February 2005.
97. **Hillman, C. H.** "Physical activity and neuroelectric function across the lifespan." Pennington Biomedical Research Center Scientific Symposium on the Neurobiology of Exercise, Louisiana State University, Baton Rouge, LA, December 2004.
98. **Hillman, C. H.** "Physical activity and cognitive function across the lifespan." Presented to the ORCHID Seminar in the Department of Computer Science, University of Illinois at Urbana-Champaign, IL, February 2004.
99. **Hillman, C. H.** "Emotion and motivated behavior: Postural adjustments to affective stimuli." Presented to the Department of Exercise and Sport Sciences, University of Florida, Gainesville, FL, March 2003.
100. **Hillman, C. H.** "Academic career workshop: Entering the academic marketplace." Presented to the Society for Psychophysiological Research and the American Psychological Association, Pre-Conference Workshop, Washington, D.C. 2002.
101. **Hillman, C. H.** "The psychophysiology of sport: A mechanistic understanding of the psychology of superior shooters." Presented to the United States Olympic Training Center, Colorado Springs, CO, November 2001.
102. **Hillman, C. H.** "Exercise and the aging brain: Electrocortical indices of executive function." Presented to the Department of Exercise and Sport Sciences, University of Florida, Gainesville, FL, January 2001.
103. **Hillman, C. H.** "Exercise and the aging brain: A psychophysiological perspective." Presented to the Department of Psychology Cognitive Psychophysiology Seminar, University of Illinois at Urbana-Champaign, IL, September 2000.
104. **Hillman, C. H.** "Combining visual and cortical assessment for psychophysiological performance profiling of marksmen." Presented to the United States Olympic Training Center, Colorado Springs, CO, October 1999.

#### External Grants

1. NIH, National Institute of Child Health and Human Development (HD088512), Principal Investigator: “Sympathetic nervous system mediates the acute effects of exercise on brain and cognition in children”, \$2,839,220 (pending, June 2017, Priority Score: 8%).
2. National Health and Medical Research Council (NHMRC, APP1120518), Chief-Investigator: “Reducing cardiovascular disease risk factors among older adolescents attending schools in disadvantaged communities: The ‘Burn to Learn’ cluster RCT” (David Lubans, Lead Chief Investigator), \$636,911AUD (funded, 2017-2019).
3. NIH, National Institute on Aging (R01AG053952), Co-Investigator (Kirk Erickson, Principal Investigator). “Investigating Gains in Neurocognition in an Intervention Trial of Exercise”, \$21,899,529 (September 15, 2016 – May 31, 2021).
4. Abbott Nutrition, Co-Investigator: “Retrospectively Studying the Effects of Early Life Nutrient Intake Cognitive Function and Brain Health in Preadolescent Children” (Naiman Khan, Principal Investigator), \$175,475 (funded July 2015 – June 2018).
5. Danone, Principal Investigator: “The Effects of Hydration on Brain, Cognition, Memory & Achievement in Childhood”, \$534,387 (funded 2014-2018).
6. Intelligence Advanced Research Projects Activity (IARPA), Co-Investigator: “An Integrative System for Enhancing Fluid Intelligence (gf) through Human Cognitive, Fitness, HD-tDCS, and Nutritional Intervention (INSIGHT)”, (Aron Barbey, Principal Investigator), \$13,154,534 (funded January 2014 – December 2016).
7. Nike Foundation Grant, Principal Investigator: “The Transient Effects of Single Bouts of Exercise on Cognitive and Brain Health, and Scholastic Achievement in Preadolescent Children”, \$220,638 (funded September 2013).
8. Abbott Nutrition, Principal Investigator: “The Effects of Fortified Nutritional Supplementation on Cognition, Memory, and Achievement”, \$2,261,636 (funded, April 2012).
9. Abbott Nutrition, Co-Investigator: “Optimizing Assessment Tools for Determining Nutritional Enhancement of Learning and Memory” (Neal Cohen, Principal Investigator), \$396,755 (funded, April 2012).
10. NIH, National Institute of Child Health and Human Development (HD069381), Co-Principal Investigator: “Enhancing Children’s Cognitive and Brain Health through Physical Activity Training” (Arthur Kramer, co-Principal Investigator), \$3,865,723 (funded, March, 2012).
11. NIH, RFA-CA-10-1017, Scientific Meetings for Creating Interdisciplinary Research Teams (R13), Co-Investigator: “Illinois Early Childhood Activity Program (I-CAP): Assessing Physical Activity from Circuits to Communities” (Barbara Fiese, Principal Investigator), \$96,840 (Funded, December 2011).
12. USDA, National Institute of Food and Agriculture, “Illinois Transdisciplinary Obesity Prevention Program (I-TOPP)”, (Sharon Donovan, Principal Investigator), \$4,500,000 (funded, February, 2011).

13. NATA Research and Education Foundation, Co-Investigator: “Concussion across the Lifespan: Persistent Effects on Brain, Neurocognitive Function, and Motor Control”, (Steven Broglio, Principal Investigator), \$125,398 (funded, June 2011).
14. NIH, National Institute for Diabetes and Digestive and Kidney Diseases, Co-Investigator: “Physical activity across the curriculum”, (Joseph Donnelly, Principal Investigator), \$535,008 [subcontract] (funded, June, 2010).
15. NIH, National Institute of Child Health and Human Development (HD055352), Principal Investigator: “ERPs to Academics: Exercise Effects on Cognition in School-Aged Children”, \$1,355,107 (funded, September 2008).
16. NIH, National Institute of Mental Health, Ruth L. Kirschstein Individual Predoctoral Fellowship Award (F31), Sponsor (Jason Themanson): “Cardiorespiratory Influences on Executive Control Function”, \$61,579 (funded, March 2006).
17. Institute for the Study of Aging, Co-Investigator: “Physical Activity, Aging, and Neurocognitive Function”, (Arthur Kramer, Principal Investigator) \$100,000 (funded, January 2005).
18. NIH, National Institute on Aging, Principal Investigator: “Exercise, Executive Processes, and the Aging Brain,” \$908,063 (funded, June 2003).
19. NIH, National Institute of Mental Health, Ruth L. Kirschstein Individual Predoctoral Fellowship Award (F31), Principal Investigator: “Age and Fitness Effects on Psychomotor Performance,” \$18,521 (funded, May 1999).

#### Internal Grants

1. Illinois Transdisciplinary Obesity Prevention Program: Co-Investigator (L. Raine/ K. Robinson, Principal Investigators): “The Impact of Genetics on Childhood Obesity, Cognition, and Fitness”, \$10,000 (funded, May, 2015).
2. Center for Health, Aging, and Disability: Co-Investigator (M. De Lisio, Principal Investigator): “Cognitive Impairments in Obese Children through Hematopoietic Stem Cell Dis-Regulation”, \$19,580 (funded, August 2013).
3. Center for Health, Aging, and Disability: Co-Investigator (S. Mullen, Principal Investigator): “Exergaming and Mild Cognitive Impairment: A Pilot Study”, \$20,000 (funded, August 2013).
4. Illinois Transdisciplinary Obesity Prevention Program: Co-Investigator (L. Raine/ N. Khan, Principal Investigators): “From Visceral Adiposity to ERPs”, \$10,000 (funded, February, 2013).
5. University of Illinois at Urbana-Champaign Research Board, Principal Investigator: “Tracking the relation of fitness and body composition to cognitive health and function in middle school students: a 3-year prospective study”, \$18,993 (funded, December, 2011).

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6. Division of Nutritional Sciences Vision 20/20 Research Program, Principal Investigator (Neal Cohen, Co-investigator): “Tracking Physical Fitness and Body Composition in Middle School Students: A 3-Year Prospective Study”, \$20,000 (funded, 2011).
  7. University of Illinois at Urbana-Champaign Research Board: Co-Investigator (S. Broglio, Principal Investigator): “Mild Traumatic Brain Injury and Cognitive Health across the Lifespan”, \$12,650 (funded, November, 2009).
  8. University of Illinois at Urbana-Champaign Research Board/Arnold O. Beckman Research Award, Co-Investigator (K. Bost, Principal Investigator): “A Cross-Disciplinary Approach to the Study of Emotion in Attachment Relationships”, \$18,291 (funded, May, 2007).
  9. University of Illinois at Urbana-Champaign Mary Jane Neer Research Fund, Principal Investigator: “Clinical and Neuroelectric Indices of Multiple Concussions”, \$15,000 (funded, May 2007).
  10. University of Illinois at Urbana-Champaign Research Board, Co-Investigator (S. Broglio, Principal Investigator): “Association Between Recurrent Concussion and Neuroelectric Indices of Chronic Changes in Cognition”, \$9,175 (funded, May 2007).
  11. University of Illinois at Urbana-Champaign Research Board, Principal Investigator: “Acute Effects of Resistance Training on Cognitive Performance”, \$9,175 (funded, March 2006).
  12. University of Illinois at Urbana-Champaign Research Board, Co-Investigator (D. Castelli, Principal Investigator): “Cognitive Processes and Physical Activity in Children”, \$6,200 (funded, October 2003).
  13. University of Illinois at Urbana-Champaign Research Board, Principal Investigator: “Emotion and Motivated Behavior: Affective Picture-Viewing and Postural Sway,” \$18,000 (funded, September 2001).
  14. University of Illinois at Urbana-Champaign Research Board, Principal Investigator: “Executive Control Processes in Older Physically Active Adults,” \$18,987 (funded, December 2000).

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## Teaching Experience

### Undergraduate & Graduate Courses

*University of Illinois at Urbana-Champaign (August 2000 – 2016)*

KIN 140	Social Science of Human Movement
KIN 385	Experiences in Kinesiology Research
KIN/PSY 447	Psychology of Sport Performance
KIN 543	Physical Activity and Cognitive Function
NUTR 500	Nutritional Science Seminar
NUTR 530	Childhood Obesity I
PSY 290	Research Experience in Psychology

### Postdoctoral Scholars

2017-present Dominika Pindus, Ph.D.  
2017-present Shih-Chun Kao, Ph.D.  
2016-present Lauren Raine, Ph.D.  
2015- 2017 Anne Walk, Ph.D.  
2016- 2017 Eric Drollette, Ph.D.  
2015-2017 John Biggan, Ph.D. (Beckman Institute Postdoctoral Fellow)  
2013-2015 Naiman A. Khan, Ph.D.  
2010-2012 Keita Kamijo, Ph.D.

### Graduate Students

#### *Supervisor*

Present Daniel Westfall, “TBA”. Doctorate of Philosophy Degree, Department of Psychology. Northeastern University. To Be Conferred in 2019.

Present Tatsu Shigato, “TBA”. Doctorate of Philosophy Degree, Department of Psychology. Northeastern University. To Be Conferred in 2020.

Present Nicole Logan, Doctorate of Philosophy Degree, Department of Psychology. Northeastern University. To Be Conferred in 2021.

Present Mireia Felez Nobrega, Doctorate of Philosophy Degree, University of Vic, Spain. To Be Conferred in 2017.

2017 Shih-Chun Kao, “The effects of single bouts of moderate-intensity continuous exercise and high-intensity interval exercise on the modulations of inhibitory control, working memory, and long-term memory”. Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.

2016 Lauren B. Raine, “Obesity, visceral adipose tissue, and cognition in childhood”. Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.

2016 Mark R. Scudder, “Success in reading...What’s the meaning? The relationship of changes in aerobic fitness and adiposity with children’s language processing”. Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.

2016 Daniel Westfall, “The association between aerobic fitness and congruency sequence effects in preadolescent children”. Master’s of Science Degree, Department of Kinesiology & Community Health, University of Illinois.

2016 Sasha McCorkle, “Macular Pigment Optical Density is Associated with Academic Achievement”. Master’s of Science Degree, Division of Nutritional Sciences, University of Illinois.

2016 Jeanine Bensken, Non-Thesis Master’s of Science Degree, Department of Kinesiology & Community Health, University of Illinois.

- 2016 Eric S. Drollette, “Exercise for the Brain, but for Whom? An Individual Differences Investigation of the FITKids Clinical Trial on Cognitive Control and ERPs in Children”. Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2014 R. Davis Moore, “The Influence of Pediatric Concussion on Cognitive Control and Neuroelectric Function”. Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2012 Chien-Ting Wu, “Aerobic Fitness and the Attentional Blink in Preadolescent Children”. Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2011 Matthew Pontifex, “Transient Modulations of Inhibitory Control in Children with ADHD: the Effects of a Single Bout of Physical Activity”. Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2010 Kevin O’Leary, “The Effects of Single Bouts of Aerobic Exercise, Videogame Play, and Exergaming on Cognitive Control.” Master’s of Science Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2010 Toni Burkhalter, Non-Thesis Master’s of Science Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2009 Dana Ghareeb, Non-Thesis Master’s of Science Degree, Division of Nutritional Sciences, University of Illinois.
- 2009 Phillip O’Connor, Non-Thesis Master’s of Science Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2007 Sarah M. Buck, “The Relationship between Aerobic Fitness and the Attentional Networks in Healthy Preadolescent Children.” Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2007 Jason R. Themanson, “Cardiorespiratory Influences on Executive Control Function.” Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2006 Colleen Russell, Non-thesis Masters of Science Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2004 Darin P. Smith, “Influences of Age and Physical Activity on Psychophysiological Responses During Emotional Picture Processing.” Masters of Science Degree, Department of Kinesiology & Community Health, University of Illinois.

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- Present Nicole Betz, Doctorate of Philosophy Degree, Department of Psychology, Northeastern University. To Be Conferred in 2019.
- Present Marc Yanguéz Escalera, Doctorate of Philosophy Degree, University of Geneva, Switzerland. To Be Conferred in 2018.
- Present Anne Kaer Thorsen, Doctorate of Philosophy Degree, Centre of Research in Child Health, Department of Sport Sciences and Clinical Biomechanics, University of Southern Denmark. To Be Conferred in 2016.
- Present Jakob Tarp, Doctorate of Philosophy Degree, Centre of Research in Child Health, Department of Sport Sciences and Clinical Biomechanics, University of Southern Denmark. To Be Conferred in 2016.
- Present Kelsey Hassevoort, Doctorate of Philosophy Degree, the Neuroscience Program, University of Illinois.
- Present Christine St. Laurent, Doctorate of Philosophy Degree, Department of Kinesiology, University of Massachusetts-Amherst.
- 2017 Sarah Banducci, Doctorate of Philosophy Degree, the Neuroscience Program, University of Illinois.
- 2017 Elizabeth Awick, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2016 Danielle Dickson, Doctorate of Philosophy Degree, Department of Psychology, University of Illinois.
- 2016 Jason Fanning, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2016 Tina Greenlee, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2015 Aldis Sipolins, Doctorate of Philosophy Degree, the Neuroscience Program, University of Illinois.
- 2015 Kasper Skriver, Doctorate of Philosophy Degree, School of Science, University of Copenhagen, Denmark.
- 2015 Emily Cunningham, Master's of Arts Degree, Department of Psychology, University of Illinois.
- 2015 Dominika Pindus, Doctorate of Philosophy Degree, Department of Physical Activity and Public Health, Loughboro University, United Kingdom.
- 2015 Brian Sandroff, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2014 Eero Haapala, Doctorate of Philosophy Degree, Department of Physiology, University of Eastern Finland.
- 2014 Heidi Syväoja, Doctorate of Philosophy Degree, LIKES-Foundation for Sport & Health Sciences, University of Jyväskylä.
- 2014 Kelsey Hassevoort, First Year Project, the Neuroscience Program, University of Illinois.
- 2013 Erin Olson, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2013 Neha Gothe, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2013 Carol Baym, Doctorate of Philosophy Degree. the Neuroscience Program, University of Illinois.
- 2013 Thomas Wojcicki, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2012 Laura Chaddock, Doctorate of Philosophy Degree, the Neuroscience Program, University of Illinois.

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- 2012 Naiman Kahn, Doctorate of Philosophy Degree, Division of Nutritional Sciences, University of Illinois.
- 2012 Amanda Szabo, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2012 Tina Matilla, Masters of Science Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2012 Heloisa Alves, Doctorate of Philosophy Degree, Department of Psychology, University of Illinois.
- 2011 James Monti, Masters of Science Degree, the Neuroscience Program, University of Illinois.
- 2011 Chen Pang Wai, Doctorate of Philosophy Degree, The Hong Kong Polytechnic University.
- 2009 Mélanie Renaud, Doctorate of Philosophy Degree, Department of Psychology, University of Quebec at Montreal.
- 2009 Laura Chaddock, Masters of Science Degree, Department of Psychology, University of Illinois.
- 2009 Maritza Alvarado, Doctorate of Philosophy Degree. Department of Psychology, University of Illinois.
- 2008 Brian Gordon, Doctorate of Philosophy Degree. Department of Psychology, University of Illinois.
- 2007 Li-Ling Chuang, Doctorate of Philosophy Degree. Department of Kinesiology & Community Health, University of Illinois.
- 2006 Richard Doyle, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2005 Peter Johannes Kremer, Doctorate of Philosophy Degree, University of Melbourne, Australia.
- 2004 Brian Ragan, Doctorate of Philosophy Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2004 Danielle Gross, Master's of Science Degree, Department of Kinesiology & Community Health, University of Illinois.
- 2003 Erin Snook, Master's of Science Degree, Department of Kinesiology & Community Health, University of Illinois.

#### Co-op Students

- 2017 Jane Li, Behavioral Neuroscience, Northeastern University
- 2018 Rebecca Shorin, Health Sciences, Northeastern University

#### Directed Study Students

- 2017 Rebecca Shorin, Health Sciences, Northeastern University
- 2017 Lisa Ramdas, Psychology & Behavioral Neuroscience, Northeastern University

#### Undergraduate Student Committees

##### *Chairperson*

- 2016 Jack Soneson, "The Effect of Acute Aerobic Exercise and High-intensity Interval Training on Inhibitory Control and working Memory in Young Adults". Senior Thesis. University of Illinois.
- 2016 Camille Garcia, "The Effect of Acute Aerobic Exercise and High-intensity Interval Training on Inhibitory Control and working Memory in Young Adults". Senior Thesis. University of Illinois.
- 2016 Mario Pacheco, "The dose-response relationship of a physical activity intervention on congruency sequence effects in preadolescent children". Senior Thesis. University of Illinois.
- 2015 Sara Ronde, "The relationship of sex to the effects of a physical activity intervention on childhood cognition". Senior Thesis. Princeton University.

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- 2014 Cameron Fenton, "The transient effects of sleep on brain function and cognition". Summer Research Opportunities Program.
- 2012 Karah Bush, "The effects of an afterschool physical activity program on verbal fluency." James Scholar, Senior Thesis.
- 2010 Karah Bush, "The effects of an afterschool physical activity program on verbal fluency." McNair Summer Research Program.
- 2008 Efferman Ezell, "Chronic cognitive dysfunction associated with a history of concussion." Summer Research Opportunities Program.
- 2006 Matthew B. Pontifex, "In-task exercycling and executive control." Undergraduate Senior Thesis.
- 2006 George H. Echols III, "Acute effects of exercise on cognitive performance." Summer Research Opportunities Program.
- 2004 Danielle Pierre, "Aerobic fitness and action monitoring". McNair Summer Research Program.
- 2004 Cristina Zelaya, "Aerobic activity and cognitive function in children." The Hispanic Center of Excellence (HCOE) Summer Medical Student Research Fellowship Program.
- 2002 Raquel Gonzales, "Acute cardiovascular exercise and emotion: a startle reflex study." McNair Summer Research Program.

### Visiting Scholars

- 2017 Cristina Cadenas Sanchez, doctoral student, University of Granada, Spain
- 2017 Mireia Felez-Nobrega, doctoral student, University of Vic, Spain
- 2017 Anna Bugge, Visiting Assistant Professor, Fulbright Fellowship, University of Southern Denmark, Odense, Denmark
- 2016 Isabela Ramos, doctoral student, Catholic University of Brasília, Brazil
- 2015 Xiangli Gu, Assistant Professor, Texas A & M University
- 2014 Antonio Luque Casado, doctoral student, University of Granada, Spain
- 2014 Aiguo Chen, Associate Professor (sabbatical), College of Physical Education, Yangzhou University
- 2014 Kirk Erickson, Associate Professor (sabbatical), Department of Psychology, University of Pittsburgh
- 2013-2015 Dominika Pindus, doctoral student, Loughborough University, United Kingdom
- 2013 Anne Kaer Thorsen, doctoral student, University of Southern Denmark, Odense, Denmark
- 2013 Jakob Tarp, doctoral student, University of Southern Denmark, Odense, Denmark
- 2011-2012 Takayuki Shishido, Ph.D., Associate Professor, Sendai National College of Technology, Japan
- 2011-2012 Artur Direito, master's student, Vrije University, Amsterdam, Netherlands

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## **Service**

### Public and Professional Service

#### *Public Engagement*

- 2016-18 U.S. Health and Human Services, Physical Activity Guidelines for Americans Advisory Committee

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2014-	GENYOUth and National Dairy Council joint Health & Wellness Advisory Council, and Subcommittee on Evaluation
2014	American Heart Association Physical Education Expert Advisory Group
2012	United Nations Educational, Scientific, and Cultural Organization (UNESCO) Committee on Sports and Society: Research In Socio-Economic Impacts of Sport' (RISE) study
2010	Urbana School District Teacher In-Service Day
2008-	Board Member, American Sport Institute
2007	Assisted Senator Katie Stine (Rep) on Kentucky State Senate Bill #110 to increase physical education to 150 minutes per week for public school children.
2007	Research used to support Senator Jane Nelson (Rep) on Texas State Senate Bill #530 to increase physical education time for public school children.
2007	Member of the Professor's Task Force for the Center for SCREEN-TIME Awareness

### *National Professional Service*

- American College of Sport Medicine, member, 1999-present
- Society for Psychophysiological Research, member, 1995-present  
Program Committee, 2002- 2004, 2013-2014, 2014-2015 (appointed)  
Education and Training Committee, 2003-2006 (appointed)  
Tursky Student Award Committee, 2009 (appointed)  
Bylaws Committee, 2009-2012 (appointed)  
Membership Committee, 2013-2015 (appointed)
- The U.S. Department of Health and Human Services Office for Disease Prevention and Health Promotion (ODPHP), Physical Activity Guidelines for Americans (PAG), Meeting Participant, 2014
- Institute of Medicine of the National Academies, Committee on Physical Activity and Physical Education in the School Environment, Committee Member, 2012-2013  
Strategic Health Initiatives-Aging Committee 2008-2011 (appointed)  
Co-Chair, ACSM Conference on Physical Activity, Cognitive Function, and Academic Achievement: Moving Students to Better Performance (2011)
- American Psychological Association, member, 1996-2005  
Program Committee American Psychological Association Division 47, 2003 (appointed)
- American Society for Nutrition, 2013-2015
- American Psychological Society, 2009-2012
- Cognitive Development Society, 2005-2009
- Cognitive Neuroscience Society, 2005-2010
- North American Society for the Psychology of Sport and Physical Activity, member, 1996-2003

### *Federal Government Study Section*

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|------|---|
| 2016 | National Institutes of Health, Special Emphasis Panel, Neurotoxicology and Alcohol Study Section, 2017/01 NAL   |
| 2014 | The German Federal Ministry for Education and Research (BMBF), Neural Basis of Active Aging Study Section   |
| 2010 | National Institutes of Health, Special Emphasis Panel, Promote Diversity of Emerging Scientists in the Health Sciences 2010/05 ZRG1 BBBP-J (29) L (F31) |

2009 National Institutes of Health, Cognition and Perception Study Section

2009 National Institute on Aging, Special Emphasis Panel, Interventions to Remediate Age-Related Cognitive Decline, 2009/05 ZAG 1 ZIJ-5 (M1)

*Promotion and Tenure External Reviewer*

2015 Dartmouth College

2017 University of Florida

*Journal Editorships*

2016- Journal of Cognitive Enhancement Editorial Advisory Board

*Ad-Hoc Journal Reviewer*

- Acta Psychologica, 2008
- Aging, Neuropsychology, and Cognition, 2006, 2010
- American Journal of Preventive Medicine, 2007
- Biological Psychology, 2003, 2005, 2008, 2010, 2011, 2012, 2015
- Brain and Cognition, 2008
- Child Neuropsychology, 2011
- Clinical Neurophysiology, 2001
- Cochrane Review, 2007
- Cognitive Development, 2006
- Cognitive, Affective, & Behavioral Neuroscience, 2008
- Developmental Psychology, 2007, 2011
- Developmental Review, 2012
- Emotion, 2006
- European Journal of Applied Physiology, 2005, 2008, 2010
- Experimental Aging Research, 2004
- Experimental Brain Research, 2004
- Health Psychology, 2012
- International Journal of Obesity, 2008
- International Journal of Psychophysiology, 2005, 2007, 2008, 2013
- International Journal of Sports Medicine, 2002, 2006, 2007
- International Journal of Sport Psychology, 1999
- Journal of Aging and Physical Activity, 2002, 2007
- Journal of Cognitive Neuroscience, 2012
- Journal of Experimental Child Psychology, 2012, 2013, 2014
- Journal of Gerontology: Medical Sciences, 2004
- Journal of Gerontology: Psychological Sciences, 2004, 2005, 2006, 2009
- Journal of Motor Behavior, 2004
- Journal of Neuroscience, 2011
- Journal of Pediatrics, 2009
- Journal of Psychophysiology, 2004
- Journal of Sport & Exercise Psychology, 2000, 2001, 2002, 2006, 2007, 2008, 2011, 2013
- Journal of Sport Sciences, 2005, 2008

- Journal of Sport & Social Issues, 2001, 2002
- Medicine & Science in Sports & Exercise, 2004, 2006, 2010, 2011, 2012, 2016
- Methods, 2008
- Motivation and Emotion, 2000, 2001, 2002, 2003, 2004
- Neurobiology of Learning and Memory, 2005
- Neurobiology of Aging, 2006
- Neuroimage, 2012
- Neuroscience, 2009, 2010
- Neuroscience & Biobehavioral Reviews, 2011
- Neuroscience Letters, 2003
- New England Journal of Medicine, 2009
- Pediatrics, 2011, 2015
- Pediatric Exercise Science, 2007, 2010, 2013
- Perceptual and Motor Skills, 2002
- Psychology and Aging, 2006
- Physiology & Behavior, 2006, 2012
- Psychological Bulletin, 2006
- Psychophysiology, 2001, 2002, 2004, 2005, 2006, 2007, 2009, 2010, 2011, 2015
- Psychosomatic Medicine, 2010
- Research Quarterly for Exercise and Sport, 2005, 2006

#### Administrative Service to Northeastern University

##### *Department of Psychology*

- Presenter at Welcome Day for Admitted Psychology Students & Families, 2017
- Psychology Human Subjects Pool Committee, member, 2017
- Chair, Search Committee for Faculty in Cognitive and Brain Health, 2017
- Chair, Search Committee for Director of Bio-Imaging Center, 2017

##### *Department of Health Sciences*

- Appointment, Tenure, and Promotion Committee, 2017-present
- Administrator Review Committee, 2017

#### Administrative Service to the University of Illinois

##### *Department of Kinesiology and Community Health*

##### Chairperson:

- Biobehavioral Kinesiology Coordinator, Fall 2011-2016 (appointed)
- Honor and Awards Committee for Faculty, Graduate Students, and Undergraduate Students, 2002-2008 (appointed)
- Search Committee, Research Technical Support, Fall 2005-Spring 2006 (appointed)

Member:

- Search Committee, Department Head, Department of Kinesiology & Community Health, 2015-16 (appointed)
- Department of Kinesiology & Community Health Tenure and Promotion Committee, 2011-2014 (elected)
- Department of Kinesiology & Community Health Advisory Committee, 2010-2016 (elected)
- Search Committee, Assistant/Associate Professor in Physical Activity and Health, 2011-12 (appointed)
- Search Committee, Accountant Technician I, 2011-2012 (appointed)
- *Ad Hoc* Committee for the evaluation of student fees, 2009-2010 (appointed)
- Education Policy Committee, 2003-2008 (appointed)
- *Ad Hoc* Committee for evaluation of Graduate Student Research and Travel Grants, 2000 –2001, 2004 –2005 (appointed)
- Honor and Awards Committee for Faculty, Graduate Students, and Undergraduate Students, 2001-2002 (appointed)
- Search Committee, assistant professor of biomechanics/motor control, 2002 –2003 (appointed)
- Search Committee, Target Opportunity Program (TOP), assistant professor of sport culture, Spring 2003 (appointed)
- Search Committee, Undergraduate Academic Advisor, Summer 2003 (appointed)
- McKinley Health Center Research and Grants Committee, 2003-2005 (appointed)
- Search Committee, Undergraduate Academic Advisor, Spring 2004 (appointed)
- Chittendon Fellowship Committee, 2005-2006 (appointed)
- Departmental Space Committee, 2005-2007 (appointed)

*Division of Nutritional Sciences*

- Executive Committee, Member, 2014-2017 (elected)
- Search Committee, I-TOPP Program Coordinator, Summer 2011 (appointed)
- Application Evaluation Committee, I-TOPP, Spring 2012-present (appointed)

*College of Applied Health Sciences*

Chairperson:

- College Initiative Hire, Health – Child & Family Issues Search Committee, Chair, 2014-15 (appointed)
- Center for Health, Aging, and Disability Senior Faculty Committee Chair, 2014- 2015 (appointed)
- College Initiative Hire, Disability – Child and Family Search Committee, Chair, 2013-14 (appointed)
- College Initiative Hire, Disability Search Committee, Chair, 2012-13 (appointed)
- King James McCristal Distinguished Scholar for the College of Applied Health Sciences Award Committee, Chair, 2013 (appointed)

Member:

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- College Executive Committee, member, 2013-16 (elected)
  - Promotion and Tenure Committee, member, 2013-17 (elected)
  - Department of Speech & Hearing Sciences, Faculty Search Committee, Member, (2013-2014)
  - King James McCristal Distinguished Scholar for the College of Applied Health Sciences Award Committee, Member, 2014-2015 (appointed)
  - University Multi-College Excellence Search Committee, Member, 2012-13
  - Department of Speech & Hearing Sciences, Promotion & Tenure Committee, Member, 2012-13 (appointed)
  - Department Head 5-Year Review Committee, Member, 2012 (appointed)
  - Search Committee, Grants & Contracts Officer, Summer 2011 (appointed)
  - Center for Health, Aging, and Disability Senior Faculty Committee Member, 2009- 2015 (appointed)
  - Elections and Credentials Committee, Member, 2009-2013 (elected)
  - Search Committee, Assistant/Associate Professor in Disability, 2009-2010 (appointed)
  - Neer Grant Review Committee, Member, Spring 2009 (appointed)
  - Department Head 5-Year Review Committee, Member, 2006- 2007 (appointed)
  - Applied Health Sciences Honors and Awards Committee, Member, 2004-2007 (appointed)
  - Search Committee, College Web Master, Member, 2000 (appointed)

#### *University of Illinois*

- Vice Chancellor's Committee to Evaluate Animal Care Costs on Campus, Member, 2014-2015 (appointed)
- Provost's Campus Budgetary Oversight Committee, Member, 2013-2015 (appointed)
- AHS Dean 5-Year Review Committee, Member, 2012 (appointed)
- Faculty Advisor, University of Illinois Men's Division I Ice Hockey Club, 2007-present
- Reviewer, UIUC Research Board Grant, 2001, 2003, 2004, 2005, 2006, 2011, 2013
- Animal Care and Use Committee (IACUC) member, 2009-2012
- Advances in Sensory and Developmental Neuroscience, Post Doc Search Committee, 2010
- National Center for Health Technologies Leadership Committee, Illinois Interdisciplinary Health Science Initiative, 2010-2011 (invited)
- IRB Focus Group, 2003 (invited)

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#### **Select Media Appearances**

- *Good Morning America*, 2017,  
<http://abcnews.go.com/GMA/video/research-links-physical-activity-children-higher-academic-performances-48124311>
- *The New York Times*, "Losing fat, gaining brain power, on the playground", June 16, 2017,  
<https://www.nytimes.com/2017/06/16/magazine/losing-fat-gaining-brain-power-on-the-playground.html>
- BBC iWonder, <http://www.bbc.co.uk/guides/ztxng82>
- *CNN*, "Math-letes rule! Fit, health kids do better in school, especially math", August 31, 2015.  
<http://www.cnn.com/2015/08/31/health/fit-kids-better-math/>

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- *Scientific American*, “Kids Who Exercise Don’t Sweat Tests”, October 9, 2014.  
<http://www.scientificamerican.com/podcast/episode/kids-who-exercise-don-t-sweat-tests/>
  - *The New York Times*, “How Exercise Can Boost Young Brains”, October 8, 2014.  
[http://well.blogs.nytimes.com/2014/10/08/how-exercise-can-boost-the-childs-brain/?\\_php=true&\\_type=blogs&\\_r=0](http://well.blogs.nytimes.com/2014/10/08/how-exercise-can-boost-the-childs-brain/?_php=true&_type=blogs&_r=0)
  - *Los Angeles Times*, “An Hour of Physical Activity A Day Helps Kids Think Better, Study Says”, September 29, 2014. <http://www.latimes.com/science/sciencenow/la-sci-sn-fit-kids-think-smarter-20140929-story.html>
  - *National Public Radio*, “More Active Play Equals Better Thinking Skills For Kids”, September 29, 2014. <http://www.npr.org/blogs/health/2014/09/29/352455278/more-active-play-equals-better-thinking-skills-for-kids>
  - *The Telegraph*, “An Hour of Exercise a Day Boosts Children’s Concentration”, September 29, 2014. <http://www.telegraph.co.uk/health/healthnews/11126713/An-hour-of-exercise-a-day-boost-childrens-concentration.html>
  - *The New York Times*, “Put the Physical in Education”, September 4, 2014,  
<http://well.blogs.nytimes.com/2014/09/04/adhd-children-exercise-pe/>
  - *U.S. News & World Report*, “Could Fitter Kids Be Smarter Kids, Too?”, June 6, 2014
  - *Science Daily*, “Brain Signals Link Physical Fitness to Better Language Skills in Kids”, June 3, 2014
  - *Reuters*, “Daily, Vigorous Exercise Helps Kids Get or Stay Fit”, March 31, 2014,  
<http://news.yahoo.com/daily-vigorous-exercise-helps-kids-stay-fit-204919667.html>
  - *The New York Times*, “How Physical Fitness May Promote School Success”, September 17, 2013, [http://well.blogs.nytimes.com/2013/09/18/how-physical-fitness-may-promote-school-success/?\\_r=0](http://well.blogs.nytimes.com/2013/09/18/how-physical-fitness-may-promote-school-success/?_r=0)
  - *Chicago Tribune*, “Physical Fitness Boosts Brain Power in Kids, Study Finds”, September, 15, 2013, <http://www.chicagotribune.com/health/la-sci-sn-physically-fit-kids-learn-better-memory-20130911,0,1195670.story>
  - *Time Magazine*, “How Cutting Physical Education in Schools Could Hurt Grades”, September, 11, 2013, <http://healthland.time.com/2013/09/11/how-cutting-physical-education-in-schools-could-hurt-grades/>
  - *Los Angeles Times*, “Physical Fitness Boosts Brain Power in Kids, Study Finds”, September 11, 2013, <http://touch.latimes.com/#section/-1/article/p2p-77366278/>
  - *Science Daily*, “Aerobic Fitness Boosts Learning, Memory in 9-10-Year-Old Children”, September 11, 2013, <http://www.sciencedaily.com/releases/2013/09/130911184716.htm>
  - *The New York Times*, “Phys Ed: Can Exercise Make Kids Smarter?”, September, 19, 2010
  - *CNN American Morning*, “Can Exercise Make Kids Smarter?”, September, 17, 2010
  - *ABC World News with Diane Sawyer*, “Bikes, Balls in Class: How Phys Ed Transformed One School”, April 14, 2010, <http://abcnews.go.com/WN/exercise-school-leads-learning/story?id=10371315>
  - *Good Morning America*, “Exercise Boosts Brain Power”, October 22, 2009,  
<http://abcnews.go.com/GMA/exercise-boost-brainpower/story?id=8840026>
  - *The New York Times*, “Phys Ed: What Sort of Exercise Can Make You Smarter?”, September 16, 2009
  - *The News Gazette*, “UI professor's research finds exercise helps kids focus”, August 27, 2009
  - *Good Morning America*, “Getting Kids Moving in Schools”, April 8, 2009,  
<http://abcnews.go.com/Video/playerIndex?id=7287548>

- *The New York Times*, “Lobes of Steel”, August 19, 2007
- *Newsweek*, “Can Exercise Make You Smarter?”, March 26, 2007
- *The News Gazette*, “Study: Exercise Benefits Younger Brains Too”, January 1, 2007
- *Men’s Health*, Science has linked aerobic exercise to improved brainpower, September 6, 2005
- *The News Gazette*, “Finding Fitness, Educational Links”, November 8, 2004