

Eric S. Drollette  
Curriculum Vitae

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Work Address:

**Department of Kinesiology and Community Health  
University of Illinois at Urbana-Champaign**

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**Education**

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*2009-Present*

**University of Illinois**, Urbana-Champaign, Illinois

Ph.D. Candidate in Kinesiology, Emphasis in Neurocognition of Health Behaviors

Anticipated graduation date: May 2016

Advisor: Charles H. Hillman, Ph.D.

Dissertation: "Exercise for the brain, but for whom? An individual difference investigation of the FITKids clinical trial on cognitive control and ERPs in children"

Committee Chair: Charles H. Hillman, Ph.D.

Committee Members: Arthur F. Kramer, Ph.D.; Amelia M. Woods, Ph.D.; Steven Petruzzello, Ph. D.

*2009*

**Utah State University**, Logan, Utah

Department of Health, Physical Education, and Recreation

Bachelor of Science, B.S.

Physical Education, Emphasis in Exercise Science

*2009*

**Utah State University**, Logan, Utah

Department of Psychology

Bachelor of Science, B.S.

Psychology

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**Professional Experience**

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*2012 – Present*

**Head Graduate Research Assistant**, FITKids II Clinical Trial - Neurocognitive Kinesiology lab, Department of Kinesiology and Community Health, University of Illinois Urbana-Champaign. Funded by NIH, National Institute of Child Health and Human Development, "Enhancing Children's Cognitive and Brain Health through Physical Activity Training" (funded, March, 2012).

Primary Investigators: Dr. Charles Hillman, Ph.D. and Dr. Arthur Kramer Ph.D.

*Aug 2009-present*     **Graduate Research Assistant** University of Illinois Urbana-Champaign, Department of Kinesiology and Community Health in the Neurocognitive Kinesiology lab, Charles Hillman, PhD (advisor).

*Aug 2008-Jun 2009*     **Undergraduate Research Assistant** Utah State University Logan, Department of Psychology in the Multisensory Cognition Lab, Dr. Kerry Jordan PhD (advisor).

### **Honors & Recognition**

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*2012-present*     **List of Teachers Ranked Excellent** by the students. Results are based on Instructor and Course Evaluation (ICES) questionnaire.

*Fall 2013*     **List of Teachers Ranked Excellent with Outstanding Ratings** (top 10% across campus in respective course group). Results are based on Instructor and Course Evaluation (ICES) questionnaire.

*2012*     **Student Poster Award** from the 52<sup>nd</sup> annual meeting of the **Society for Psychophysiological Research (SPR)**. The poster was titled, "*Acute exercise modulates P3 amplitude for children who need it most: An ERP study of individual differences using the flanker task*".

*2009*     Graduated **Cum Laude** from Utah State University in Psychology  
*2009*     Graduated **Cum Laude** Utah State University in Physical Education  
*2009*     The **Dean's List**  
*2003-2004*     The **Dean's List**

### **Funding**

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#### *External Grants*

1. Society for Psychophysiological Research, Conference Travel Grant for the 54<sup>th</sup> Annual Meeting in Atlanta, GA, \$500 (funded, Fall 2014).

#### *Internal Grants (submitted and funded)*

1. University of Illinois at Urbana-Champaign, Graduate College Conference Travel Grant, "The sexual dimorphic pattern of central adiposity on ERPs in 8- to 10-year-old children" \$100 (funded, Fall 2014).
2. University of Illinois at Urbana-Champaign, Graduate College Conference Travel Grant, "The relation of sex differences to fitness and working memory in preadolescent children" \$100 (funded, Spring 2014).
3. University of Illinois at Urbana-Champaign, Graduate College Conference Travel Grant, "Modulation of brain function in children during and after exercise" \$200 (funded, Spring 2013).

## Scholarship

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

1. Khan, N. A., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., & Hillman, C. H. (in press). The relation of saturated fats and dietary cholesterol to childhood cognitive flexibility. *Appetite*. (invited).
2. Berchicci, M., Pontifex, M. B., **Drollette, E. S.**, Pesce, C., & Hillman, C. H. (2015). From cognitive motor preparation to visual processing; the benefits of childhood fitness to brain health. *Neuroscience*, *298*, 211-219.
3. **Drollette, E. S.**, Scudder, M. R., Raine, L. B., Moore, R. D., Pontifex, M. B., Erickson, K. I., & Hillman, C. H. (in press). The sexual dimorphic association of cardiorespiratory fitness to working memory in children. *Developmental Science*.
4. Khan, N. A., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Kramer, A. F., & Hillman, C. H. (in press). Dietary fiber is positively associated with cognitive control among prepubertal children. *Journal of Nutrition*.
5. Moore, R. D., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Pindus, D. M., & Hillman, C. H. (2015). The persistent influence of pediatric concussion on attention and cognitive control during flanker performance. *Biological Psychology*, *109*, 93-102.
6. Baym, C. L., Khan, N. A., Monti, J. M., Raine, L. B., **Drollette, E. S.**, Moore, R. D., Scudder, M. R., Kramer, A. F., Hillman, C. H., & Cohen, N. J. (2014). Dietary lipids are differentially associated with hippocampal-dependent relational memory in prepubescent children. *The American Journal of Clinical Nutrition*, *99*, 1026-1032.
7. 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
8. 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. *The Journal of Pediatrics*, *166*, 302-308. doi: 10.1016/j.jpeds.2014.10.008
9. 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).

10. Hillman, C. H., Pontifex, M. B., Castelli, D. M., Khan, N. A., Raine, L. B., Scudder, M. R., **Drollette, E. S.**, Moore, R. D., Wu, C. T., & Kamijo, K. (2014). Effects of the FITKids physical activity intervention on cognitive and brain health in children. *Pediatrics*, *134*, 1063-1071.
11. Moore, R. D., **Drollette, E. S.**, Scudder, M. R., Bharij, A., & Hillman, C. H. (2014). The influence of cardiorespiratory fitness on strategic, behavioral, and electrophysiological indices of arithmetic cognition in preadolescent children. *Frontiers in Human Neuroscience*, *8* (258), 1-14. doi: 10.3389/fnhum.2014.00258
12. Khan, N. A., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Pontifex, M. B., Castelli, D. M., Donovan, S. M., Evans, E. M., & Hillman, C. H. (2014). Impact of the FITKids physical activity intervention on adiposity in prepubertal children. *Pediatrics*, *133*, 875-883. doi: 10.1542/peds.2013-2246
13. **Drollette, E. S.**, Scudder, M. R., Raine, L. B., Moore, R. D., Saliba, B. J., Pontifex, M. B., & Hillman, C. H. (2014). Acute exercise facilitates brain function and cognition in children who need it most: An ERP study of individual differences in inhibitory control capacity. *Developmental Cognitive Neuroscience*, *7*, 53-64. doi:10.1016/j.dcn.2013.11.001
14. Scudder, M. R., Lambourne, K., **Drollette, E. S.**, Herrmann, S., Washburn, R., Donnelly, J. E., & Hillman, C. H. (2014). Aerobic capacity and cognitive control in elementary school-age children. *Medicine & Science in Sports & Exercise*, *46*, 1025-1035. doi: 10.1249/MSS.0000000000000199
15. Chaddock-Heyman, L., Erickson, K. I., Voss, M. W., Powers, J. P., Knecht, A. M., Pontifex, M. B., **Drollette, E. S.**, Moore, R. D., Raine, L. B., Scudder, M. R., Hillman C. H., & Kramer, A. F. (2013). White matter microstructure is associated with cognitive control in children. *Biological Psychology*, *94*, 109-115.
16. Kamijo, K., Pontifex, M. B., Khan, N. A., Raine, L. B., Scudder, M. R., **Drollette, E. S.**, Evans, E. M., Castelli, D. M., & Hillman, C. H. (2014). The negative association of childhood obesity to the cognitive control of action monitoring. *Cerebral Cortex*, *24*, 654-662. doi: 10.1093/cercor/bhs349
17. **Drollette, E. S.**, Shishido, T., Pontifex, M. B., & Hillman, C. H. (2012). Maintenance of cognitive control during and after walking in preadolescent children. *Medicine and Science in Sport and Exercise*, *44*(10), 2017-2024.
18. 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. (2012). The relation of adiposity to cognitive control and scholastic achievement in preadolescent children. *Obesity*, *20*, 2406-2411.

19. Kamijo, K., Pontifex, M. B., Khan, N. A., Raine, L. B., Scudder, M. R., **Drollette, E. S.**, Evans, E. M., Castelli, D. M., & Hillman, C. H. (2012). The association of childhood obesity to neuroelectric indices of inhibition. *Psychophysiology*, 49, 1361-1371.
20. Pontifex, M. B., Scudder, M. R., **Drollette, E. S.**, & Hillman, C. H. (2012). Fit and vigilant: The relationship between poorer aerobic fitness and failures in sustained attention during preadolescence. *Neuropsychology*, 26, 407-413.
21. Pontifex, M. B., Broglio, S. P., **Drollette, E. S.**, Scudder, M. R., Johnson, C. R., O'Connor, P. M., & Hillman, C. H. (2012). The relation of mild traumatic brain injury to chronic laps of attention. *Research Quarterly for Exercise and Sport*, 83, 553-559.
22. Scudder, M. R., **Drollette, E. S.**, Pontifex, M. B., & Hillman, C. H. (2012). Neuroelectric indices of goal maintenance following a single bout of physical activity. *Biological Psychology*, 89, 528-531.
23. Castelli, D. M., Hillman, C. H., Hirsch, J., Hirsch, A., & **Drollette, E. S.** (2011). FIT Kids: Time in target heart zone and cognitive performance. *Preventive Medicine* [Invited], 53, S55-S59.

#### *Manuscripts Submitted for Publication*

1. Kao, S., **Drollette, E. S.**, Scudder, M. R., M. R., Raine, L. B., Pontifex, M. B., & Hillman, C. H. (submitted). Aerobic fitness facilitates inhibitory control in preadolescent children: An in-depth study of the flanker task utilizing the conditional accuracy function.
2. Pindus, D. M., **Drollette, E. S.**, Scudder, M. R., Khan, N. A., Raine, L. B., Sherar, L. B., Eslinger, D. W., Kramer, A. F., & Hillman, C. H. (submitted). Associations among moderate-to-vigorous physical activity, indices of cognitive control, and academic achievement in preadolescents.
3. Moore, R. D., Pindus, D. M., **Drollette, E. S.**, Scudder, M. R., Raine, L. B., Elleberg, D., & Hillman, C. H. (submitted). A targeted neuropsychological examination of the long-term influence of pediatric concussion on cognitive function.
4. Moore, R. D., Pindus, D. M., **Drollette, E. S.**, Scudder, M. R., Raine, L. B., Elleberg, D., & Hillman, C. H. (submitted). The persistent influence of concussion on attention, executive control and neuroelectric function in preadolescent children.
5. Scudder, M. R., **Drollette, E. S.**, Szabo-Reed, A. N., Lambourne, K., Fenton, C. I., Donnelly, J. E., & Hillman, C. H. (submitted). Tracking the relationship between children's aerobic fitness and cognitive control.
6. Chaddock-Heyman, L., Erickson, K. I., Chappell, M. A., Kienzler, C., Johnson, C. L., Knecht, A., **Drollette, E. S.**, Raine, L. B., Scudder, M. R., Kao, S., Hillman, C. H. &

Kramer, A. F. (submitted). Aerobic fitness is associated with greater hippocampal cerebral blood flow in children.

7. **Drollette, E. S.**, Scudder, M. R., Raine, L. B., Pontifex, M. B., & Hillman, C. H. (submitted). Acute exercise facilitates memory in girls but not boys: The sexual dimorphic patterns of word recall performance during and after moderate intensity walking.
8. Olson, E. A., **Drollette, E. S.**, Raine, L. B., Hillman, C. H., & McAuley, E. (submitted). Immediate effects of blood glucose on working memory performance.

#### *Manuscripts in Preparation*

1. **Drollette, E. S.**, Scudder, M. R., Raine, L. B., Pontifex, M. B., & Hillman, C. H. (in preparation). Dimorphic sex differences in the flexible modulation of cognitive control in young children: An ERP investigation.
2. **Drollette, E. S.**, Komisarz, C. E., Scudder, M. R., Raine, L. B., & Hillman, C. H. (in preparation). The effects of moderate intensity biking on cognitive control, ERPs, and academic achievement in preadolescent children.

#### *Abstracts (In print or accepted)*

1. Scudder, M. R., **Drollette, E. S.**, Raine, L. B., Pontifex, M. B., Moore, R. D., Kao, S.-C., Khan, N. A., Kramer, A. F., & Hillman, C. H. (2015). The influence of socioeconomic factors on neuroelectric, cognitive, and academic achievement in preadolescent children. *Psychophysiology*.
2. **Drollette, E. S.**, Raine, L. B., Scudder, M. R., Pontifex, M. B., Moore, R. D., Kao, S.-C., Pindus, D. M., Khan, N. A., Kramer, A. F., & Hillman, C. H. (2015). Dimorphic sex differences in conflict monitoring and the flexible modulation of cognitive control in young children: An ERP investigation. *Psychophysiology*.
3. Khan, N. A., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Kao, S.-C., Kramer, A. F., Donovan, S. M., & Hillman, C. H. (2015). Gestational deficits have selectively negative long-term effects on cognitive control among female preadolescents. *Journal of the Federation of American Societies for Experimental Biology*, 29, 900-18.
4. Scudder, M. R., **Drollette, E. S.**, Lambourne, K., Henley, K. R., Szabo, A. N., Fenton, C. I., Donnelly, J. E., & Hillman, C. H. (2015). Increases in children's aerobic capacity over 2 years predict greater improvements in cognitive control. *Medicine & Science in Sports & Exercise*.
5. Raine, L. B., Pontifex, M. B., Khan, N. A., Scudder, M. R., **Drollette, E. S.**, Moore, R. D., Wu, C., Kamijo, K., Castelli, D. M., & Hillman, C. H. (2014). The FITKids

- randomized controlled trial: Effects of physical activity on cognitive and brain health in children. *Psychophysiology*, 51, S18.
6. Moore, R. D., Pindus, D. M., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., & Hillman, C. H. (2014). Wear your helmet! The persistent influence of pediatric concussion on cognitive control. *Psychophysiology*, 51, S19.
  7. 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 behavioral and neural indices of attention and cognitive control. *International Society for Developmental Neuroscience*.
  8. Moore, R. D., Drollette, E. S., Bharij, A., Scudder, M. R., & **Hillman, C. H.** (2014). The influence of cardiorespiratory fitness on strategic, behavioral, & neuroelectric indices of arithmetic cognition in preadolescent children. *Journal of the International Neuropsychological Society*, 20 (S1), S229-230.
  9. Moore, R. D., **Drollette, E. S.**, Scudder, M. R., Bharij, A., & Hillman, C. H. (2014). The influence of aerobic fitness on strategic, behavioral, & neuroelectric indices of arithmetic cognition in children. *International Society for Developmental Neuroscience*.
  10. **Drollette, E. S.**, Komisarz, C. E., Scudder, M. R., Raine, L. B., & Hillman, C. H. (2014). Maintenance of scholastic performance and brain function during and following an acute bout of cycling in 9- to 10-year-old children. *Psychophysiology*, 51, S18.
  11. **Drollette, E. S.**, Khan, N. A., Raine, L. B., Scudder, M. R., Moore, R. D., Komisarz, C. E., Kramer, A. F., & Hillman, C. H. (2014). The sexual dimorphic pattern of central adiposity on ERPs in 8- to 10-year-old children. *Psychophysiology*, 51, S55.
  12. Khan, N. A., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Cohen, N. J., Kramer, A. F., & Hillman, C. H. (2014). Associations between diet quality and cognitive control in childhood. *The Journal of the Federation of American Societies for Experimental Biology*, 28, 34.
  13. Khan, N. A., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Cohen, N. J., Kramer, A. F., & Hillman, C. H. (2014). Differences in cognitive flexibility between healthy weight and obese children: an ERP study. *The Journal of the Federation of American Societies for Experimental Biology*, 28, 179.
  14. **Drollette, E. S.**, Scudder, M. R., Moore, R. D., Raine, L. B., Pontifex, M. B., & Hillman, C. H. (2014). The relation of sex differences to fitness and working memory in preadolescent children. *Medicine & Science in Sports & Exercise*, 46, S85.
  15. Olson, E. A., **Drollette, E. S.**, Raine, L. B., Hillman, C. H., & McAuley, E. (2013). Immediate effects of blood glucose on working memory performance. *Annals of Behavioral Medicine*.

16. Scudder, M. R., Khan, N. A., Lambourne, K., Herrmann, S., **Drollette, E. S.**, Washburn, R., Donnelly, J. E., & Hillman, C. H. (2013). Aerobic fitness and HDL cholesterol are individually associated with children's cognitive performance. *Medicine & Science in Sports & Exercise*, 45, S72.
17. **Drollette, E. S.**, Komisarz, C. E., Scudder, M. R., Raine, L. B., & Hillman, C. H. (2013). Modulation of brain function in children during and after exercise. *Medicine & Science in Sports & Exercise*, 45, S133.
18. Olson, E. A., **Drollette, E. S.**, Hillman, C. H., & McAuley, E. (2013). Social cognitive and executive function correlates of diabetes status. *Annals of Behavioral Medicine*.
19. Khan, N. A., Baym, C. L., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Cohen, N. J., Kramer, A. F., & Hillman, C. H. (2013). Central adiposity predicts hippocampal-dependent relational memory in pre-pubertal children. *The Journal of the Federation of American Societies for Experimental Biology*, 27, 360.
20. Raine, L. B., Khan, N. A., **Drollette, E. S.**, Scudder, M. R., Cohen, N. J., Kramer, A. F., & Hillman, C. H. (2013). Towards a better understanding of the negative relationship between adiposity and cognitive health in prepubertal children. *Experimental Biology*, 27, 852.
21. Olson, E. A., **Drollette, E. S.**, Raine, L. B., Hillman, C. H., & McAuley, E. (2012). Working memory efficiency in older adults with type-2 diabetes. *The 7<sup>th</sup> World Congress on the Prevention of Diabetes and its Complications*.
22. **Drollette, E. S.**, Pontifex, M. B., Scudder, M. R., Raine, L. B., Saliba, B. J., & Hillman, C. H. (2012). Acute exercise modulates P3 amplitude for children who need it most: An ERP study of individual differences using the flanker task. *Psychophysiology*, 49, S89.
23. Khan, N. A., Raine, L. B., **Drollette, E. S.**, Scudder, M. R., Pontifex, M. B., Castelli, D. M., Hillman, C. H., Donovan, S. M., Evans, E. M. (2012). Television viewing and intake of added sugars are related to central adiposity in prepubertal children. *The Journal of the Federation of American Societies for Experimental Biology*, 26, 369.
24. Kamijo, K., Pontifex, M. B., Khan, N. A., Raine, L. B., Scudder, M. R., **Drollette, E. S.**, Evans, E. M., Castelli, D. M., & Hillman, C. H. (2012). Childhood obesity and action monitoring. *Psychophysiology*, 49, S89.
25. Kamijo, K., Pontifex, M. B., Scudder, M., **Drollette, E. S.**, Khan, N. A., Castelli, D. M., Evans, E. M., & Hillman, C. H. (2011). Body mass and inhibitory control in preadolescent children. *Psychophysiology*, 48, S56.



26. Scudder, M. R., **Drollette, E. S.**, Pontifex, M. B., & Hillman, C. H. (2011). A single bout of aerobic exercise improves goal maintenance during a cognitive control task. *Medicine & Science in Sports & Exercise*, 43, S175.
27. Raine, L. B., Pontifex, M. B., Scudder, M. R., O'Leary, K. C., Wu, C.-T., **Drollette, E. S.**, Castelli, D. M., & Hillman, C. H. (2011). The FIT Kids trial: The beneficial effects of a 9-month physical activity intervention on preadolescent cognition. *Psychophysiology*, 48, S75.
28. Scudder, M. R., **Drollette, E. S.**, Pontifex, M. B., Paras, F., & Hillman, C. H. (2011). Neuroelectric indices of goal maintenance following moderate aerobic exercise. *Psychophysiology*, 48, S56.
29. Khan, N. A., Richey, A. L., **Drollette, E. S.**, Scudder, M. R., Pontifex, M. B., Castelli, D. M., Hillman, C. H., & Evans, E. M. (2011). Maternal level of education in negatively related to television watching and adiposity in prepubertal children. *The Journal of the Federation of American Societies for Experimental Biology*, 25, 332.
30. Pontifex, M. B., Scudder, M. R., O'Leary, K. C., Raine, L. B., Wu, C.-T., **Drollette, E. S.**, Castelli, D. M., & Hillman, C. H. (2011). The beneficial effects of fitness training on neurocognitive function in preadolescent children. *Medicine & Science in Sports & Exercise*, 43, S176.
31. Khan, N. A., Richey, A. L., **Drollette, E. S.**, Scudder, M. R., Pontifex, M. B., Castelli, D. M., Hillman, C. H., & Evans, E. M. (2011). Gender and race differences in bone mineral density, fat, and lean mass among black and white prepubertal children. *The Journal of the Federation of American Societies for Experimental Biology*, 25, 332.

*Presentations, & Symposia (not included in Abstracts)*

1. Johnson, M. B., Fenton, C. I., **Drollette, E. S.**, Scudder, M. R., & Hillman, C. H. (2015). Aerobic fitness is selectively associated with better cognitive performance for task conditions requiring greater demand. Poster presented at *the 30th Annual Kinesiology and Community Health Honors and Awards Ceremony, University of Illinois Champaign-Urbana*.
2. Scudder, M. R., Khan, N. A., Lambourne, K., **Drollette, E. S.**, Hermann, S., Betts, J. L., Washburn, R., 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 at *International Society for Behavioral Nutrition & Physical Activity (ISBNPA), San Diego, CA*.
3. Pindus, D. M., Khan, N. A., **Drollette, E. S.**, Moore, R. D., Scudder, M. R., Raine, L. B., Sherar, L. B., Biddle, S. J. H., 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 at *International Society for Behavioral Nutrition & Physical Activity (ISBNPA)*.

4. 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. (2014). Dissociable effects of lean mass versus fat mass on neuromorphology in children. *American Psychological Society*, San Francisco, CA.
5. Moore, R. D., **Drollette, E. S.**, Scudder, M. R., Bharij, A., & Hillman, C. H. (2014). The influence of aerobic fitness on strategic, behavioral, & neuroelectric indices of arithmetic cognition in children. Poster presented to the *Cognitive Neuroscience Society*, Boston MA.
6. 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 during flanker performance. Poster presented to the *Cognitive Neuroscience Society*, Boston MA.
7. **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.
8. Rodriguez, V., Hagan, R. W., **Drollette, E. S.**, Raine, L. B., Scudder, M. R., & Hillman, C. H. (2014). Body mass index is related to academic achievement in preadolescent girls, but not boys. Poster presented at *the 29th Annual Kinesiology and Community Health Honors and Awards Ceremony, University of Illinois Champaign-Urbana*.
9. Lamb, E. M. B., **Drollette, E. S.**, Raine, L. B., Scudder, M. R., & Hillman, C. H. (2013). Fitness selectively modulates aspects of academic achievement in children. Poster presented at *the Sixth Annual Undergraduate Research Symposium, University of Illinois Champaign-Urbana*.
10. Neufeld, M. W., Chang, M. A., Silverman, E. R., **Drollette, E. S.**, Scudder, M. R., Raine, L. B., & Hillman, C. H. (2013). The effects of physical activity duration and intensity on BMI and fitness in children. Poster presented at *the 28th Annual Kinesiology and Community Health Honors and Awards Ceremony, University of Illinois Champaign-Urbana*.
11. Dixon, M., **Drollette, E. S.**, Raine, L. B., Scudder, M. R., & Hillman, C. H. (2013). Maintenance of academic achievement during an acute bout of exercise in children. Poster presented at *the Sixth Annual Undergraduate Research Symposium, University of Illinois Champaign-Urbana*.
12. Olson, E. A., **Drollette, E. S.**, Raine, L. B., Hillman, C., & McAuley, E. (2013). *Sitting Time Behavior and Working Memory*. Oral Presentation at the Annual Meeting of the International Society for Behavioral Nutrition and Physical Activity. *Ghent, Belgium*.

13. **Drollette, E. S.**, Shishido, T., Pontifex, M. B., Jorns, C. A., & Hillman, C. H. (2012). The effects of walking on individual differences in children's memory performance. Poster presented at *the annual Kinesiology and Community Health Honors and Awards Ceremony, University of Illinois Champaign-Urbana*.
14. 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*.
15. 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*.
16. **Drollette, E. S.**, Shishido, T., Pontifex, M. B., Paras, F. N., Sroka, A. J., & Hillman, C. H. (2011). The effects of walking on cognition and memory in preadolescent children. Poster presented at *the Beckman pre-summit workshop Education for a lifetime: Minds, brains, literacies, University of Illinois Champaign-Urbana*.
17. Dansie, E., **Drollette, E. S.**, Frye, A., & Jordan, K. (2009). Multisensory stimuli enhance infant numerical representation only when present during both learning and testing. Poster presented at *the 39<sup>th</sup> annual meeting of the Jean Piaget Society, Park City, UT*.

*Invited Lectures & Symposia (not included in Abstracts)*

1. **Drollette, E. S.**, "The Differential Relation of Sex on Fitness and Working Memory in Pre-pubertal Children". Beckman Graduate Student Seminar Series, Beckman Institute, University of Illinois Champaign-Urbana, IL, November 2013.

## **Teaching Experience**

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*Instructional Activities*

*2010-present* **Course Instructor** for KINES 140: Social Science of Human Movement, Department of Kinesiology and Community Health, University of Illinois Urbana-Champaign.

*2009-2010* **Head Teaching Assistant** for KINES 140: Social Science of Human Movement, Department of Kinesiology and Community Health, University of Illinois Urbana-Champaign.

2009 **Teaching Assistant** for KINES 140: Social Science of Human Movement, Department of Kinesiology and Community Health, University of Illinois Urbana-Champaign.

#### *Undergraduate Student Advising*

- 2015 Michael B. Johnson, & Cameron I. Fenton, “Aerobic fitness is selectively associated with better cognitive performance for task conditions requiring greater demand”, senior project.
- 2014 Victoria Rodriguez, Hannah C. Hagan, & Ray W. Urban, “Body mass index is related to academic achievement in preadolescent girls, but not boys”, senior project.
- 2013 Maren Dixon, “Maintenance of academic achievement during an acute bout of exercise in children”, James Scholar, Senior Thesis.
- 2013 Matthew W. Neufeld, Melody A. Chang, & Eric R. Silverman, “The effects of physical activity duration and intensity on BMI and fitness in children”, senior project.
- 2013 Erin Marie B. Lamb, “Fitness selectively modulates aspects of academic achievement in children” James Scholar, Senior Thesis.

#### **Service**

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##### *Ad-Hoc Journal Reviewer*

Journal of Sports Sciences, 2013  
Frontiers in Human Neuroscience, 2014  
Medicine & Science in Sport & Exercise, 2014  
Neuropsychologia, 2014  
Journal of Sport and Health Science, 2014

##### *Services to the University*

2008-2009 **Volunteer Instructor** at Utah State University Health and Wellness Center. Instructional activities included teaching “Prime for Life” to students who were cited for underage drinking on campus. Classes took place three nights per week and included discussion and focus groups along with activities designed to inform and deter underage drinking.

#### **Professional Affiliations**

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2013-present Cognitive Neuroscience Society (CNS)

- 2010-present* American College of Sport's Medicine (ACSM)
- 2009-present* Society of Psychophysiology Research (SPR)
- 2008-present* Student Affiliate of American Psychological Association (APA)
- 2008-present* Psi Chi National Honors Society
- 2007-present* Gold Key International Honors Society

**Professional Development**

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- 2009 – Present* Weekly Seminar for Topics on Brain and Cognition
- 2013 – Present* Weekly Seminar for Topics on EEG and ERP Research Methods

**Certifications and Licensures**

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- 2009 – Present* CPR certified for Adults and Children by the American Red Cross
- 2009 – Present* Standard First Aid certified by the American Red Cross