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**EDUCATION**

May 2012 **Doctor of Philosophy in Nutritional Sciences**  University of Illinois, Urbana, IL

May 2009 **Master of Science in Nutritional Sciences** University of Illinois, Urbana, IL

May 2006 **Bachelor of Science in Nutritional Sciences** Louisiana State University, Baton Rouge, LA

**PROFESSIONAL CREDENTIALS**

2009-Present Registration in Dietetics (RD)

University of Illinois, Urbana, IL

**ACADEMIC POSITIONS**

2015-Present Assistant Professor, University of Illinois, Urbana, IL

Department of Kinesiology & Community Health

Division of Nutritional Sciences

Affiliate of the Neuroscience Program

Affiliate of the Family Resiliency Center

2012-2015 Postdoctoral Research Associate, University of Illinois, Urbana, IL

Neurocognitive Kinesiology Laboratory (PI: Charles Hillman, PhD)

Department of Kinesiology & Community Health

2009-2012 Graduate Research Assistant, University of Illinois, Urbana, IL

Extension and Outreach – Interdisciplinary Programs (PI: Robin Orr, PhD)

2009-2011 Graduate Research Assistant, University of Illinois, Urbana, IL

Bone and Body Composition Laboratory (PI: Ellen Evans, PhD)

Department of Kinesiology & Community Health

2006-2009 Graduate Research Assistant, University of Illinois, Urbana, IL

Community Nutrition Laboratory (PI: Karen Chapman-Novakofski, PhD, RD)

Department of Food Science and Human Nutrition

**HONORS & AWARDS**

2020 Excellence in Undergraduate Research Award, College of Applied Sciences, University of Illinois

2015-2017, 2019 List of Instructors Ranked as Excellent by Their Students, University of Illinois

2017 Dannon Institute Nutrition Leadership Institute, Dannon Nutrition

2014 Hydration for Health (H4H) Initiative Young Researcher Award Winner, Danone Nutricia

2013 Postdoctoral Research Award Finalist, American Society for Nutrition

2011 Margin of Excellence Research, Division of Nutritional Sciences, University of Illinois

2011 William Rose Endowed Award, Division of Nutritional Sciences, University of Illinois

2008 Best Graduate Student Abstract, Nutrition Education, American Society for Nutrition

2008-2011 Margin of Excellence Travel, Division of Nutritional Sciences, University of Illinois

**PUBLICATIONS**

**Peer-Reviewed Journal Articles (in print or accepted)**

*Total citations = 1957, h-index = 18, i10-index = 35 [Google Scholar. (2020, March)].*

1. Hannon, B. A., Edwards, C. G., Thompon, S.V., Reeser, E. G, Burd, N. A., Holscher, H. D., Teran-Garcia, M. T., & **Khan, N. A.** (in press). Single nucleotide polymorphisms related to Lipoprotein metabolism are asscoiated with blood lipid changes following regular avocado intake in a randomized control trial among adults with overweight and obesity. *Journal of Nutrition*.
2. Acevedo, M. B., Teran-Garcia, M., Bucholz, K. K., Eagon, J. C., Bartholow, B. D., Burd, N. A., **Khan, N. A.**, Rowitz, B, Pepino, M. Y. (2020). Alcohol sensitivity in women after undergoing bariatric surgery: a cross-sectional study. Surgery for Obesity and Related Diseases, 16(4), 536–544. https://doi.org/10.1016/j.soard.2020.01.014
3. Hannon, B. A., Edwards, C. G., Thompon, S.V., Burke, S.A., Burd, N. A., Holscher, H. D., Teran-Garcia, M. T., & **Khan, N. A.** (in press). Genetic variants in lipid metabolism pathways interact with diet to influence blood lipid concentrations in adults with overweight and obesity. *Lifestyle Genomics*.
4. Edwards, C. G., Walk, A.D., Thompon, S.V., Reeser, G, Erdman, J.W., Burd, N. A., Holscher, H.D., **Khan, N.A.** (2020).Effects of 12-week avocado consumption on cognitive function among adults with overweight and obesity. *International Journal of Psychophysiology*, *148*, 13-24. https://doi.org/10.1016/j.ijpsycho.2019.12.006
5. **Khan, N. A**, Cannavale, C., Iwinski, S., Liu, R., Mcloughlin, G., Steinberg, L. G., & Walk, A. M. (2019). Visceral adiposity and diet quality are differentially associated with cognitive abilities and early academic skills among Preschool-age Children. *Frontiers in Pediatrics*, *7*, 548. https://doi.org/10.3389/FPED.2019.00548
6. Saint, S. E., Hammond, B. R., **Khan, N. A.,** Hillman, C. H., & Renzi-Hammond, L. M. (2019). Temporal vision is related to cognitive function in preadolescent children. *Applied Neuropsychology: Child*, 1–8. https://doi.org/10.1080/21622965.2019.1699096
7. Phansikar, M., Ashrafi, A.A., **Khan, N.A.,** Massey, W.V., Mullen, S.P. Active commute in relation to cognition and academic achievement in children and adolescents: A systematic review and future recommendations. (2019). *International Journal of Environmental Research and Public Health*, *16* (24), 5103. https://doi.org/10.3390/ijerph16245103
8. Walk, A. M., Raine, L. B., Kramer, A. F., Cohen, N. J., Hillman, C. H., & **Khan, N. A**. (2019). Adiposity is related to neuroelectric indices of motor response preparation in preadolescent children. *International Journal of Psychophysiology*, *147*, 176-183. https://doi.org/10.1016/j.ijpsycho.2019.10.014
9. Niemiro, G.A., Chiarlitti, N.A., **Khan, N.A.**, & De Lisio, M. A carbohydrate beverage reduces circulating monocytes expressing TLR4 in children with overweight/obesity. (2019). *Journal of Nutrition*, *149* (12), 2255-2264. https://doi.org/10.1093/jn/nxz294
10. McLoughlin, G. M., Graber, K. C., Woods, A. M., Templin, T., Metzler, M., & **Khan, N. A.** (2019). The status of physical education within a nationally recognized school health and wellness program. *Journal of Teaching in Physical Education*, *39*, 274-283. https://doi.org/10.1123/jtpe.2019-0052
11. Kondiboyina, V., Raine, L. B., Kramer, A. F., **Khan, N. A.**, Hillman, C. H., & Shefelbine, S. J. (2019). Skeletal effects of nine months of physical activity in obese and healthy-weight children. *Medicine & Science in Sports & Exercise*, *52*, 434-440. https://doi.org/10.1249/mss.0000000000002148
12. **Khan, N. A.**, Westfall, D. R., Jones, A. R., Sinn, M. A., Bottin, J. H., Perrier, E. T., & Hillman, C. H. (2019). A 4-d water intake intervention increases hydration and cognitive flexibility among preadolescent children. *The Journal of Nutrition*, *149*(12), 2255–2264. https://doi.org/10.1093/jn/nxz206
13. Nikolaus, C., Loehmer, E., Jones, A., Ruopeng, A., **Khan, N.,** & McCaffrey, J. (2019). Use of survival analysis to predict attrition among women participating in longitudinal community-based nutrition research. *Journal of Nutrition Education and Behavior*, *51*(9), 1080–1087. Retrieved from https://www.sciencedirect.com/science/article/pii/S1499404619309303
14. Hassevoort, Kelsey M., **Khan, N. A.**, Hillman, C. H., & Cohen, N. J. (2019). Differential development of relational memory and pattern separation. *Hippocampus*, *30*, 210-219. https://doi.org/10.1002/hipo.23146
15. Edwards, C.G., Walk, A.M., Cannavale, C.N., Flemming, I.R., Thompson, S.V., Reeser, G.E., Holscher, H.D., & **Khan, N.A.** (2019). Dietary choline is related to neural efficiency during a selective attention task amongst middle-aged adults with overweight and obesity. *Nutritional Neuroscience*. 1-10. https://doi.org/10.1080/1028415X.2019.1623456
16. An, R., Nickols-Richardson, S. M., **Khan, N.**, Liu, J., Liu, R., & Clarke, C. (2019). Impact of beef and beef product intake on cognition in children and young adults: a systematic review. *Nutrients*, *11*(8), 1797. https://doi.org/10.3390/nu11081797
17. Cannavale, C.N., Hassevoort, K. M., Edwards, C.G., Thompson, S.V., Burd, N. A., Holscher, H.D., Erdman, J.W., & **Khan, N.A.** (2019).Serum lutein is related to relational memory performance. *Nutrients*. 11 (4), 768. https://doi.org/10.3390/nu11040768
18. Westfall, D. R., Logan, N. E., **Khan, N. A.**, & Hillman, C. H. (2019). Cognitive assessments in hydration research involving children: methods and considerations. *Annals of Nutrition and Metabolism*, *74*(Suppl. 3), 19–24. https://doi.org/10.1159/000500341
19. Edwards, C.G., Walk, A.M., Cannavale, C.N., Thompson, S.V., Reeser, G.E., Holscher, H.D., & **Khan, N.A.** (2019). Macular xanthophylls and event-related brain potentials among adults with overweight and obesity. *Molecular Nutrition and Food Research*. 1801059. DOI: 10.1002/mnfr.201801059.
20. School lunch timing and children’s physical activity during recess: an exploratory study. *Journal of Nutrition Education and Behavior*, *51*(5), 616–622. https://doi.org/10.1016/j.jneb.2019.01.006
21. Taylor, A.M., Thompson, S.V., Edwards, C.G., Musaad, S.M., **Khan, N.A.**, & Holscher, H.D. (2019). Associations among diet, the gastrointestinal microbiota, and negative emotional states in adults. *Nutritional Neuroscience*. 1-10. https://doi.org/10.1080/1028415X.2019.15825.
22. Pindus, D. M., Drollette, E. D., Raine L. B., Kao, S., **Khan, N. A.**, Westfall, D., Hamill, M., Shorin, R., Calobrisi, E., John, D., Kramer, A. F., & Hillman, C. H. (2019). Moving fast, thinking fast: The relations of physical activity levels and bouts to neuroelectric indices of inhibitory control in preadolescents. *Journal of Sport and Health Scienc.* https://doi.org/10.1016/j.jshs.2019.02.003.
23. Chojnacki, M.R., Holscher, H.D., Balbinot, A.R., Raine, L.B., Biggan, J.R., Walk, A.M., Kramer, A.F., Cohen, N.J., Hillman, C.H., & **Khan, N.A.** (2018). Relations between mode of birth delivery and timing of developmental milestones and adiposity in preadolescence: a retrospective study. *Early Human Development*, 129 (52-59). https://doi.org/10.1016/j.earlhumdev.2018.12.021.
24. Jones, A.R., Robbs, C.M., Edwards, C., Walk, A., Thompson, S., Reeser, G.E., Holscher, H.D., & **Khan, N.A**. (2018). Retinal morphometric markers of crystallized and fluid intelligence among adults with overweight and obesity. *Frontiers in Psychology*. 9, 2650. https://doi.org/10.3389/fpsyg.2018.02650
25. Edwards, C., Walk, A., Thompson, S., Mullen, S., Holscher, H., & **Khan, N.A.** (2018). Disordered eating attitudes and behavioral and neuroelectric indices of cognitive flexibility in individuals with overweight and obesity. *Nutrients*. Vol. 10, Page 1902, 10(12), 1902. https://doi.org/10.3390/NU10121902
26. Hassevoort, K. M., Lin, A. S., **Khan, N. A.,** Hillman, C. H., Cohen, N. J. (2018). Added sugar and dietary fiber consumption are associated with creativity in preadolescent children. *Nutritional Neuroscience*, 1-12. https://doi.org/10.1080/1028415X.2018.1558003
27. Hannon, B. A., Thompson, S. V., Edwards, C. G., Skinner, S. K., Niemiro, G. M., Burd, N. A., Holscher, H. D., Teran-Garcia, M., & **Khan, N. A**. (2018). Dietary fiber is independently related to blood triglycerides among adults with oerweight and obesity. *Current Developments in Nutrition*, https://doi.org/10.1093/cdn/nzy094
28. Hannon, B., **Khan, N. A.,** & Teran-Garcia, M. (2018). Nutrigenetic contributions to dyslipidemia: a focus on physiologically relevant pathways of lipid and lipoprotein metabolism. *Nutrients*, 10(10), 1404. https://doi.org/10.3390/nu10101404
29. Niemiro, G. M., Skinner, S. K., Walk, A. M., Edwards, C. G., De Lisio, M., Holscher, H. D., … **Khan, N. A.** (2018). Oral glucose tolerance is associated with neuroelectric indices of attention among adults with overweight and obesity. *Obesity*. <https://doi.org/10.1002/oby.22276>
30. Hassevoort, K. M., **Khan, N. A.,** Hillman, C. H., Kramer, A. F., & Cohen, N. J. (2018). Relational memory is associated with academic achievement in preadolescent children*. Trends in Neuroscience and Education*. https://doi.org/10.1016/j.tine.2018.09.001
31. **Khan, N. A.**, Walk, A. M., Edwards, C. G., Jones, A. R., Cannavale, C. N., Thompson, S. V., … Holscher, H. D. (2018). Macular xanthophylls are related to intellectual ability among adults with overweight and obesity. *Nutrients*, *10*(4), 396; https://doi:10.3390/nu10040396
32. Kao, S.-C., Drollette, E. S., Ritondale, J. P., **Khan, N.,** & Hillman, C. H. (2018). The acute effects of high-intensity interval training and moderate-intensity continuous exercise on declarative memory and inhibitory control. *Psychology of Sport and Exercise*, *38*, 90–99. https://doi.org/10.1016/J.PSYCHSPORT.2018.05.011
33. Raine, L., Drollette, E., Kao, S.-C., Westfall, D., Chaddock-Heyman, L., Kramer, A. F., **Khan, N.,** Hillman, C. (2018). The associations between adiposity, cognitive function, and achievement in children. *Medicine and Science in Sports and Exercise*, 50(9), 1868–1874. https://doi.org/10.1249/MSS.0000000000001650
34. Saint, S., Renzi-Hammond, L., **Khan, N.**, Hillman, C., Frick, J., & Hammond, B. (2018). The macular carotenoids are associated with cognitive function in preadolescent children. *Nutrients*, 10(2), 193. <https://doi.org/10.3390/nu10020193>
35. Niemiro, G. M., Allen, J. M., Mailing, L. J., **Khan, N. A**., Holscher, H. D., Woods, J. A., & De Lisio, M. (2018). Effects of endurance exercise training on inflammatory circulating progenitor cell content in lean and obese adults. *The Journal of Physiology*, *596* (14), 2811–2822. https://doi.org/10.1113/JP276023
36. Raine, L. B., Kao, S.-C., Pindus, D., Westfall, D. R., Shigeta, T. T., Logan, N., Cadenas-Sanchez, C., Li, J., Drollette, E. S., Pontifex, M. B., **Khan, N.**, Kramer, A. F. Hillman, C. H. (2018). A large-scale reanalysis of childhood fitness and inhibitory control. *Journal of Cognitive Enhancement*, *2*(2), 170-192.
37. Drollette, E. S., Pontifex, M. B., Raine, L. B., Scudder, M. R., Moore, R. D., Kao, S.-C. Westfall, D. R.; Wu, C.-T., Kamijo, K., Castelli, D. M., **Khan, N. A.**, Kramer, A. F. Hillman, C. H. (2018). Effects of the FITKids physical activity randomized controlled trial on conflict monitoring in youth. *Psychophysiology*, 55(3). https://doi.org/10.1111/psyp.13017
38. Chojnacki, M. R., Raine, L. B., Drollette, E. S., Scudder, M. R., Kramer, A. F., Hillman, C. H., & **Khan, N. A.** (2018). The negative influence of adiposity extends to intraindividual variability in cognitive control among preadolescent children. *Obesity*, 26(2). https://doi.org/10.1002/oby.22053
39. Nikolaus, C. J., Loehmer, E., Jones, A., An, R., **Khan, N.,** & McCaffrey, J. (2018). Impact of food assistance program participation on food security patterns: a longitudinal study of women in Illinois. *Journal of Nutrition Education and Behavior*, 50(7), S24. https://doi.org/10.1016/j.jneb.2018.04.065
40. Baumgartner, N. W., Walk, A. M., Edwards, C. G., Covello, A. R., Chojnacki, M. R., Reeser, G. E., … **Khan, N. A.** (2017). Relationship between physical activity, adiposity, and attentional inhibition. *Journal of Physical Activity and Health*, 1–6. https://doi.org/10.1123/jpah.2017-0181
41. Barnett, S. M., **Khan, N. A.**, Walk, A. M., Raine, L. B., Moulton, C., Cohen, N. J., … Hillman, C. H. (2017). Macular pigment optical density is positively associated with academic performance among preadolescent children. *Nutritional Neuroscience*, 1–9. https://doi.org/10.1080/1028415X.2017.1329976
42. Balto, J. M., Ensari, I., Hubbard, E. A., **Khan, N.**, Barnes, J. L., & Motl, R. W. (2017). Co-occurring risk factors in multiple sclerosis. *American Journal of Health Behavior*, 41(1), 76–83. https://doi.org/10.5993/AJHB.41.1.8
43. An, R., Loehmer, E., **Khan, N.**, Scott, M. K., Rindfleisch, K., & McCaffrey, J. (2017). Community partnerships in healthy eating and lifestyle promotion: A network analysis. *Preventive Medicine Reports*, 6, 294–301. https://doi.org/10.1016/j.pmedr.2017.03.007
44. An, R., Liu, G., **Khan, N.**, Yan, H., & Wang, Y. (2017). Dietary habits and cognitive impairment risk among oldest-old Chinese. *The Journals of Gerontology*: Series B. https://doi.org/10.1093/geronb/gbw170
45. An, R., **Khan, N.**, Loehmer, E., & McCaffrey, J. (2017). Assessing the network of agencies in local communities that promote healthy eating and lifestyles among populations with limited resources. *American Journal of Health Behavior*, 41(2), 127–138. https://doi.org/10.5993/AJHB.41.2.3
46. Walk, A. M., Raine, L. B., Kramer, A. F., Cohen, N. J., **Khan, N. A.**, & Hillman, C. H. (2017). Differential effects of carbohydrates on behavioral and neuroelectric indices of selective attention in preadolescent children. *Frontiers in Human Neuroscience*, 11. https://doi.org/10.3389/fnhum.2017.00614
47. Walk, A. M., **Khan, N. A.**, Barnett, S. M., Raine, L. B., Kramer, A. F., Cohen, N. J., … Hillman, C. H. (2017). 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*, 118. https://doi.org/10.1016/j.ijpsycho.2017.05.005
48. Walk, A. M., Edwards, C. G., Baumgartner, N. W., Chojnacki, M. R., Covello, A. R., Reeser, G. E., … **Khan, N. A.** (2017). The role of retinal carotenoids and age on neuroelectric indices of attentional control among early to middle-aged adults. *Frontiers in Aging Neuroscience*, 9. https://doi.org/10.3389/fnagi.2017.00183
49. Raine, L. B., **Khan, N. A.**, Drollette, E. S., Pontifex, M. B., Kramer, A. F., & Hillman, C. H. (2017). Obesity, visceral adipose tissue, and cognitive function in childhood. *The Journal of Pediatrics*, 187, 134–140.e3. https://doi.org/10.1016/j.jpeds.2017.05.023
50. Hassevoort, K. M., Khazoum, S. E., Walker, J. A., Barnett, S. M., Raine, L. B., Hammond, B. R., Renzi-Hammond, L. M. Kramer, A. F., **Khan, N. A.**, Hillman, C. H Cohen, N. J. (2017). Macular carotenoids, aerobic fitness, and central adiposity are associated differentially with hippocampal-dependent relational memory in preadolescent children. *Journal of Pediatrics*, 183. https://doi.org/10.1016/j.jpeds.2017.01.016
51. Pindus, D. M., Drollette, E. S., Scudder, M. R., **Khan, N. A.**, Raine, L. B., Sherar, L. B., … Hillman, C. H. (2016). Moderate-to-vigorous physical activity, indices of cognitive control, and academic achievement in preadolescents. *Journal of Pediatrics*, 173, 136–142. https://doi.org/10.1016/j.jpeds.2016.02.045
52. Niemiro, G. M., Raine, L. B., **Khan, N. A.**, Emmons, R., Little, J., Kramer, A. F., … De Lisio, M. (2016). Circulating progenitor cells are positively associated with cognitive function among overweight/obese children. *Brain, Behavior, and Immunity*, 57. https://doi.org/10.1016/j.bbi.2016.03.018
53. Hassevoort, K. M., **Khan, N. A.**, Hillman, C. H., & Cohen, N. J. (2016). Childhood markers of health behavior relate to hippocampal health, memory, and academic performance. *Mind, Brain, and Education*. https://doi.org/10.1111/mbe.12108
54. Balto, J. M., Ensari, I., Hubbard, E. A., **Khan, N.**, Barnes, J. L., & Motl, R. W. (2016). Individual and co-occurring SNAP risk factors: Smoking, nutrition, alcohol consumption, and physical activity in people with multiple sclerosis. *International Journal of MS Care*, 18(6). https://doi.org/10.7224/1537-2073.2016-040
55. An, R., & **Khan, N.** (2016). Salad consumption in relation to daily dietary intake and diet quality among U.S. adults, 2003-2012. *Epidemiology, Biostatistics and Public Health*, 13(2). https://doi.org/10.2427/11791
56. Ziauddeen, H., Alonso-Alonso, M., Hill, J. O., Kelley, M., & **Khan, N. A.** (2015). Obesity and the neurocognitive basis of food reward and the control of intake. *Advances in Nutrition* (Bethesda, Md.), 6(4), 474–86.
57. Scudder, M. R., **Khan, N. A.**, Lambourne, K., Drollette, E. S., Herrmann, S. D., Betts, J. L., … Hillman, C. H. (2015). Cognitive control in preadolescent children with risk factors for metabolic syndrome. *Health Psychology*, 34(3). https://doi.org/10.1037/hea0000114
58. McCorkle, S. M., Raine, L. B., Hammond, 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(4), 594–604.
59. **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. *Journal of Nutrition: Ingestive Behavior and Neurosciences*, 145(1), 143–149.
60. **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*.
61. **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 and Metabolism*, 66. https://doi.org/10.1159/000381245
62. **Khan, N. A.**, Baym, C. L., Monti, J. M., Raine, L. B., Drollette, E. S., Scudder, M. R., … Cohen, N. J. (2015). Central adiposity is negatively associated with hippocampal-dependent relational memory among overweight and obese children. *Journal of Pediatrics*, 166(2), 302–308.e1. https://doi.org/10.1016/j.jpeds.2014.10.008
63. Hillman, C. H., **Khan, N. A.**, & Kao, S.-C. (2015). The relationship of health behaviors to childhood cognition and brain health. *Annals of Nutrition and Metabolism*, 66(Suppl. 3), 1–4.
64. Pontifex, M. B., Kamijo, K., Scudder, M. R., Raine, L. B., **Khan, N. A.**, Hemrick, B., … Hillman, C. H. (2014). The differential association of adiposity and fitness with cognitive control in preadolescent children. *Monographs of the Society for Research in Child Development*, 79(4), 72–92.
65. **Khan, N. A.**, Raine, L. B., Drollette, E. S., Scudder, M. R., Pontifex, M. B., Castelli, D. M., … Hillman, C. H. (2014). Impact of the FITKids physical activity intervention on adiposity in prepubertal children. *Pediatrics*, 133(4), e875-83. https://doi.org/10.1542/peds.2013-2246
66. **Khan, N. A.**, Raine, L. B., Donovan, S. M., & Hillman, C. H. (2014). The cognitive implications of obesity and nutrition in childhood. *Monographs of the Society for Research in Child Development*, 79(4), 51–71.
67. **Khan, N. A.**, & Hillman, C. H. (2014). The relation of childhood physical activity and aerobic fitness to brain function and cognition: a review. *Pediatric Exercise Science*, 26, 138–146. https://doi.org/10.1123/pes.2013-0125
68. Hill, J. O., Berridge, K., Avena, N. M., Ziauddeen, H., Alonso-Alonso, M., Allison, D. B., **Khan, N. A.**, Kelley, M. (2014). Neurocognition: The food-brain connection. *Advances in Nutrition*, 5(5). https://doi.org/10.3945/an.114.006437
69. Kamijo, K., Pontifex, M. B., **Khan, N. A.**, Raine, L. B., Scudder, M. R., Drollette, E. S., … Hillman, C. H. (2014). The negative association of childhood obesity to cognitive control of action monitoring. *Cerebral Cortex*, 24(3). https://doi.org/10.1093/cercor/bhs349
70. Hillman, C. H., Pontifex, M. B., Castelli, D. M., **Khan, N. A.**, Raine, L. B., Scudder, M. R., … Kamijo, K. (2014). Effects of the fitkids randomized controlled trial on executive control and brain function. *Pediatrics*, 134(4).
71. Baym, C. L., **Khan, N. A.**, Pence, A., Raine, L. B., Hillman, C. H., & Cohen, N. J. (2014). Aerobic fitness predicts relational memory but not item memory performance in healthy young adults. *Journal of Cognitive Neuroscience*, 26(11). https://doi.org/10.1162/jocn\_a\_00667
72. Baym, C. L., **Khan, N. A.**, Monti, J. M., Raine, L. B., Drollette, E. S., Moore, R. D., … Cohen, N. J. (2014). Dietary lipids are differentially associated with hippocampal-dependent relational memory in prepubescent children. *American Journal of Clinical Nutrition*, 99(5). https://doi.org/10.3945/ajcn.113.079624
73. Kamijo, K., Pontifex, M. B., **Khan, N. A.**, Raine, L. B., Scudder, M. R., Drollette, E. S., … Hillman, C. H. (2012). The association of childhood obesity to neuroelectric indices of inhibition. *Psychophysiology*, 49(10), 1361–1371. https://doi.org/10.1111/j.1469-8986.2012.01459.x
74. Kamijo, K., **Khan, N. A.**, Pontifex, M. B., Scudder, M. R., Drollette, E. S., Raine, L. B., … Hillman, C. H. (2012). The relation of adiposity to cognitive control and scholastic achievement in preadolescent children. *Obesity*, 20(12), 2406–2411. https://doi.org/10.1038/oby.2012.112
75. **Khan, N. A.,** Nasti, C. J., Evans, E. M., & Chapman-Novakofski, K. M. (2011). Using a teaching partnership to improve nutrition and exercise in college students. NACTA Journal, 55(1), 2–8. https://doi.org/10.2307/nactajournal.55.1.2
76. **Khan, N. A.**, Nasti, C., Evans, E. M., & Chapman-Novakofski, K. (2009). Peer education, Exercising, and Eating Right (PEER): Training of peers in an undergraduate faculty teaching partnership. *Journal of Nutrition Education and Behavior*, 41(1). https://doi.org/10.1016/j.jneb.2008.03.116

**Abstracts (in print or accepted)**

1. Cannavale, C., Bailey, M., Edwards, C., Walk, A., Thompson, S., Burd, N., … **Khan, N.** (2019). Interplay between systemic inflammation, visceral fat, and cognitive control in people with excess fat mass (OR32-06-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ052.OR32-06-19
2. Cerna, J., Athari, N., Robbs, C., Walk, A., Edwards, C., Adamson, B., … **Khan, N.** (2019). Macular carotenoids, retinal morphometry, and cognitive function in multiple sclerosis (OR05-07-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ029.OR05-07-19
3. Cheng, C., Thompson, S., Edwards, C., **Khan, N.**, & Holscher, H. (2019). Dietary patterns and metabolic syndrome among adults with overweight and obesity (FS18-03-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ041.FS18-03-19
4. Dinsmoor, A., Thompson, S., Edwards, C., Burd, N., **Khan, N.**, Erdman, J., & Holscher, H. (2019). Associations between serum lutein and human gut microbiota (P02-004-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ029.P02-004-19
5. Edwards, C., Cannavale, C., Flemming, I., Iwinski, S., Walk, A., Renzi-Hammond, L., & **Khan, N.** (2019). Skin and macular carotenoids and their implications for cognitive control and achievement in children (OR05-08-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ029.OR05-08-19
6. Golden, R., Hassevoort, K., Cannavale, C., Edwards, C., Thompson, S., Burd, N., … **Khan, N.** (2019). Lean body mass, but not fat mass, is associated with hippocampal memory performance (P14-011-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ052.P14-011-19
7. Hannon, B., Edwards, C., Thompson, S., Burd, N., Holscher, H., Teran-Garcia, M., & **Khan, N.** (2019). Genetic variants in lipid metabolism pathways interact with diet to influence blood lipid concentrations in adults with overweight and obesity (P15-015-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ037.P15-015-19
8. Iwinski, S., Cannavale, C., Walk, A., Liu, R., McLoughlin, G., & **Khan, N.** (2019). Interrelationships between household chaos, children’s adhd tendencies, and diet quality (P11-113-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ048.P11-113-19
9. **Khan, N.**, Edwards, C., Thompson, S., Burke, S., Walk, A., Reeser, G., … Holscher, H. (2019). Effects of avocado consumption on abdominal adiposity and glucose tolerance: findings from the persea americana for total health (path) randomized controlled trial (P21-005-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ041.P21-005-19
10. **Khan, N.**, Westfall, D., Jones, A., Sinn, M., Bottin, J., Perrier, E., & Hillman, C. (2019). The effect of hydration on cognition in children: the witikids randomized controlled crossover trial (OR32-08-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ052.OR32-08-19
11. Krug, A., Cannavale, C., **Khan, N.**, & Holscher, H. (2019). The effect of prebiotic consumption on the gastrointestinal microbiota of healthy adults: a randomized, controlled, crossover trial (P20-015-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ040.P20-015-19
12. Liu, R., Hannon, B., Robinson, K., Raine, L., Hammond, B., Renzi-Hammond, L., … **Khan, N.** (2019). Single nucleotide polymorphisms in BCO1 and CD36 are related to macular pigment among children (OR05-04-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ029.OR05-04-19
13. Logan, N. E., Raine, L. B., Shorin, R. J., **Khan, N. A.**, Kramer, A. F., & Hillman, C. H. (2019). The differential relationships between physical activity and adiposity with cognitive function in preadolescent children. *Medicine & Science in Sports & Exercise*, 51(Supplement), 549. https://doi.org/10.1249/01.mss.0000562150.23688.a1
14. McKenna, C., Salvador, A., Alamilla, R., Scaroni, S., Shaffer, A., Ulanov, A., … Burd, N. (2019). Effect of ingested beef quantity on daily muscle protein synthesis during resistance training in middle-aged adults (P08-068-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ044.P08-068-19
15. Shinn, L., Li, Y., Zhu, R., Mansharamani, A., Auvil, L., Welge, M., … Holscher, H. (2019). Applying machine-learning to human gastrointestinal microbial species to predict dietary intake (P20-040-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ040.P20-040-19
16. Thompson, S., Edwards, C., Reeser, G., **Khan, N**., & Holscher, H. (2019). Effects of avocado consumption on gastrointestinal microbial metabolite concentrations and taxa abundances: a randomized, controlled trial (OR23-07-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ040.OR23-07-19
17. Thompson, S. V., Han, A., Edwards, C. G., Erdman, J. W., O’Brien, W. D., **Khan, N. A.**, & Holscher, H. D. (2019). Relationships among quantitative ultrasound-assessed hepatic health status, gut microbiota, and bile acids among adults with overweight or obesity. *The Journal of the Acoustical Society of America*, 146(4), 2863–2864. https://doi.org/10.1121/1.5136935
18. Willis, N., Krug, A., Cannavale, C., Holscher, H., & **Khan, N**. (2019). Relationship between urine hydration indices and 24 hour urinary cortisol concentration (P24-006-19). *Current Developments in Nutrition*, 3(Supplement\_1). https://doi.org/10.1093/CDN/NZZ044.P24-006-19
19. Niemiro, G. M., Walk, A. M., Edwards, C. G., Bailey, M. A., Skinner, S. K., De Lisio, M., … **Khan, N**. (2018). Chronic systemic inflammation moderates the relationship between adiposity and behavioral and neuroelectric indices of attention. *Medicine & Science in Sports & Exercise*, 50, 756. https://doi.org/10.1249/01.mss.0000538493.70447.c9
20. Westfall, D. R., Barnett, S., Covello, A. R., Bottin, J. H., Perrier, E. T., **Khan, N. A.**, & Hillman, C. H. (2017). The influence of hydration on childhood cognitive control. *Medicine & Science in Sports & Exercise*, 49(5S), 304.
21. Westfall, D., Hassevoort, K., Barnett, S., Covello, A., Bottin, J., Perrier, E., … **Khan, N.** (2017). Effects of hydration on relational memory among preadolescent children. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), 636–637.
22. Walk, A., Chojnacki, M., Drollette, E., Raine, L., Balbinot, A., Biggan, J., … **Khan, N.A.** (2017). Influence of birth-weight-for-gestational-age on neuroelectric function in preadolescence*. Journal of the Academy of Nutrition and Dietetics,* 117(9), A89.
23. Thompson, S. V., Berndt, J. W., Edwards, C. G., Erdman, J. W., **Khan, N. A.**, O’Brien, W. D., & Holscher, H. D. (2017). Bacterial fermentation end-products are related to hepatic steatosis among overweight and obese adults. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), 138.6-138.6.
24. Taylor, A. M., Edwards, C. G., **Khan, N. A.**, & Holscher, H. D. (2017). Gastrointestinal microbiota and cognitive function in adult females. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), 965.34-965.34.
25. Shigeta, T. T., Raine, L., Drollete, E., Kao, S.-C., Westfall, D., Scudder, M., … Hillman, C. (2017). Visceral Adipose Tissue Is Negatively And Selectively Associated With Cognition Among Obese Children. *Medicine & Science in Sports & Exercise*, 49(5S), 303.
26. Nikolaus, C. J., Loehmer, E., Laurent, E., An, R., **Khan, N.**, & McCaffrey, J. (2017). Nutrition Environment Food Pantry Assessment Tool (NEFPAT): Development and Evaluation. *Journal of Nutrition Education and Behavior*, 49(7), S15–S16.
27. McLoughlin, G. M., Woods, A. M., Graber, K. C., & **Khan, N. A.** (2017). Effects of Recess Timing on Physical Activity and Nutritional Intake. *Research Quarterly for Exercise and Sport*, 88, A78–A79.
28. McLoughlin, G. M., Covello, A., Edwards, C., Baumgartner, N., Curran, M., Burkhalter, T., … **Khan, N.** (2017). The Influence Of Contextual Factors On Recess Physical Activity Among Elementary School Children. *Medicine & Science in Sports & Exercise*, 49(5S), 883.
29. McLoughlin, G., Edwards, C., Covello, A., Baumgartner, N., Curran, M., Graber, K., … **Khan, N.** (2017). School Lunch and Physical Activity During Recess: Interactive Effects of Health Behaviors in the School Setting. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), 149.1-149.1.
30. Hou, A. Y., Kaczmarek, J. L., **Khan, N. A.**, & Holscher, H. D. (2017). Dietary Fiber and the Human Gastrointestinal Microbiota as Predictors of Bone Health. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), lb322-lb322.
31. Edwards, C., Walk, A., Thompson, S., Mullen, S., Holscher, H., & **Khan, N.** (2017). Domain-specific relationships between cognitive control and disordered eating attitudes. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), 150.3-150.3.
32. Edwards, C., Walk, A., Baumgartner, N., Chojnacki, M., Covello, A., Evensen, J., … **Khan, N.** (2017). Relationship between whole grain consumption and selective attention: a behavioral and neuroelectric approach. *Journal of the Academy of Nutrition and Dietetics*, 117(9), A93.
33. Dietrich, J. R., Kaczmarek, J. L., Reeser, G. E., **Khan, N. A.**, & Holscher, H. D. (2017). Assessment of dietary intervention compliance of subjects participating in an ongoing randomized controlled trial. *The Federation of American Societies for Experimental Biology Journal* (Vol. 31, p. lb366-lb366).
34. Covello, A. R., Nikolaus, C. J., Curran, M. R., Edwards, C. G., Baumgartner, N. W., Liu, R. H., … **Khan, N. A.** (2017). Examining the role of habitual physical activity in the food insecurity-obesity paradox. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), 726–791.
35. Chojnacki, M., Edwards, C., Baumgartner, N., Walk, A., Covello, A., Reeser, G., … **Khan, N.** (2017). Weight status and visceral adiposity are related to intraindividual variability in cognitive function *Journal of the Academy of Nutrition and Dietetics*, 117(9), A38.
36. Baumgartner, N. W., Walk, A. M., Edwards, C. G., Curran, M. R., Covello, A. R., Reeser, G. E., & **Khan, N. A.** (2017). Sedentary Time is Inversely Related to Behavioral and Neuroelectric Indices of Cognitive Control. *The Federation of American Societies for Experimental Biology Journal*, 31(1 Supplement), 1014–1076.
37. Baumgartner, N. W., Walk, A. M., Edwards, C. G., Covello, A. R., Curran, M. R., Reeser, G. E., … **Khan, N. A.** (2017). Habitual Physical Activity Moderates the Negative Influence of Adiposity on Cognitive Control. *Medicine & Science in Sports & Exercise*, 49(5S), 213.
38. Balbinot, A., Chojnacki, M., Drollette, E., Raine, L., Walk, A., Biggan, J., … **Khan, N.** (2017). Differences In Timing of Developmental Milestones Across Vaginally vs. Cesarean-section Delivered Infants: A Retrospective Study *Journal of the Academy of Nutrition and Dietetics*, 117(9), A85.
39. Curran, M. R., Raine, L. B., Pontifex, M. B., Castelli, D. M., Hillman, C. H., & **Khan, N. A.** (2016). Accumulation of Fat Mass During the School Year is Associated with Lower Gains in Math Achievement and Cognitive Control among Preadolescent Children. *The Federation of American Societies for Experimental Biology Journal*, 30(1 Supplement), lb320-lb320.
40. Covello, A. R., Baumgartner, N. W., Curran, M. R., Reeser, G. E., Cohen, N. J., Kramer, A. F., … **Khan, N. A.** (2016). The Sexual Dimorphic Relationship Between Dietary Fiber Intake and Visceral Adipose Tissue. *The Federation of American Societies for Experimental Biology Journal*, 30(1 Supplement), lb228-lb228.
41. Baumgartner, N. W., Covello, A. R., Reeser, G. E., Cohen, N. J., Kramer, A. F., Barbey, A. K., … **Khan, N. A.** (2016). Moderate To Vigorous Physical Activity Influences Aerobic Capacity Independent Of Body Composition. *Medicine & Science in Sports & Exercise*, 48(5S), 204.
42. Walk, A., Raine, L., Moulton, C., Kuchan, M., Cohen, N., Kramer, A., … **Khan, N.** (2016). Macular Carotenoids Are Positively Related to Academic Achievement In Pre-Adolescent Children. *Clinical Nutrition*, 35, S255–S256.
43. Walk, A. M., Raine, L. B., Cohen, N. J., Kramer, A. F., Hillman, C. H., & **Khan, N. A.** (2016). High-fit Children Exhibit Greater Resilience to the Transient Effects of Sucralose on Cognitive Control. *Medicine & Science in Sports & Exercise*, 48(5S), 1050.
44. Walk, A., **Khan, N.**, McCorkle, S., Drollette, E., Raine, L., Kramer, A., … Hillman, C. (2016). The Role of Macular Pigment Optical Density in Children’s Attentional Control and Academic Achievement. *Psychophysiology*, 53, S89–S89.
45. Raine, L., Cohen, N., Kramer, A., Hillman, C., & **Khan, N.** (2016b). From visceral fat to brain function: The selectively negative influence of central adiposity on neuroelectric indices in preadolescent children. *The Federation of American Societies for Experimental Biology Journal*, 30(1 Supplement), 679.1-679.1.
46. Raine, L., Cohen, N., Kramer, A., Hillman, C., & **Khan, N.** (2016a). Carbohydrates differentially influence children’s efficiency during cognitive control tasks. *The Federation of American Societies for Experimental Biology Journal*, 30(1 Supplement), 679.2-679.2.
47. **Khan, N.**, Raine, L., Drollette, E., Scudder, M., Kramer, A., Donovan, S., & Hillman, C. (2015). Gestational Deficits have Selectively Negative Long-Term Effects on Cognitive Control among Female Preadolescents. *The Federation of American Societies for Experimental Biology Journal*, 29(1 Supplement), 900.18.
48. **Khan, N.**, Raine, L., Winter, A., Cohen, N., & Kramer, A. (2015). Differential Effects of Carbohydrates on Changes in Acute Childhood Cognitive Control. *The Federation of American Societies for Experimental Biology Journal*, 29(Supplement), 392.3.
49. Drollette, E. S., Raine, L. B., Scudder, M. R., Pontifex, M. B., Moore, R. D., Kao, S.-C., … Hillman, C. H. (2015). Dimorphic sex differences in conflict monitoring and the flexible modulation of cognitive control in young children: an ERP investigation. *Psychophysiology*, 52, S50–S50.
50. Scudder, M. R., Drollette, E. S., Raine, L. B., Pontifex, M. B., Moore, R. D., Kao, S.-C., … Hillman, C. H. (2015). The influence of socioeconomic factors on neuroelectric, cognitive, and academic achievement in preadolescent children. *Psychophysiology*, 52, S50–S50.
51. Raine, L. B., Pontifex, M. B., **Khan, N. A.**, Scudder, M. R., Drollette, E. S., Moore, R. D., … Hillman, C. H. (2014). The fitkids randomized controlled trial: effects of physical activity on cognitive and brain health in children. *Psychophysiology*, 51, S18–S18.
52. Lynch, B., Verstynen, T., Weinstein, A. M., **Khan, N. A.**, Raine, L. B., Scudder, M. R., … Erickson, K. I. (2014). Dissociable effects of lean mass versus fat mass on neuromorphology in children. *American Psychosomatic Society*.
53. **Khan, N.**, Raine, L., Drollette, E., Scudder, M., Pontifex, M., & Hillman, C. (2014). Differences in cognitive flexibility between healthy weight and obese children: an ERP study (629.6). *The Federation of American Societies for Experimental Biology Journal*, 28(1 Supplement), 629.6.
54. **Khan, N.**, Raine, L., Drollette, E., Scudder, M., Cohen, N., Kramer, A., & Hillman, C. (2014). Associations between diet quality and cognitive control in childhood (124.1). *The Federation of American Societies for Experimental Biology Journal*, 28(1 Supplement).
55. Drollette, E. S., **Khan, N. A.**, Raine, L. B., Scudder, M. R., Moore, R. D., Komisarz, C. E., … Hillman, C. H. (2014). The sexual dimorphic pattern of central adiposity on ERPs in 8-to 10-year-old children. *Psychophysiology*, 51, S18–S18.
56. Scudder, M. R., **Khan, N. A.**, Lambourne, K., Herrmann, S., Drollette, E. S., Washburn, R., … Hillman, C. H. (2013). Aerobic Fitness And Hdl Cholesterol are Independently Associated with Children’s Cognitive Performance. *Medicine & Science in Sports & Exercise*, 45(5), 121.
57. 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. *The Federation of American Societies for Experimental Biology Journal*, 27(MeetingAbstracts), 852.5.
58. **Khan, N. A.**, Baym, C. L., Raine, L. B., Drollette, E. S., Scudder, M. R., Kramer, A. F., … Hillman, C. H. (2013). Central adiposity predicts hippocampal-dependent relational memory in prepubertal children. *The Federation of American Societies for Experimental Biology Journal*, 27.
59. Pontifex, M. B., Kamijo, K., Scudder, M. R., Raine, L. B., **Khan, N. A.**, Evans, E. M., … Hillman, C. H. (2012). The differential association between adiposity, fitness, and cognitive control in preadolescent children. *Psychophysiology*, 49, S100–S100.
60. **Khan, N. A.**, Raine, L. B., Drollette, E., Scudder, M., Pontifex, M., Castelli, D. M., … Evans, E. M. (2012). Television viewing and intake of added sugars related to increased central adiposity in prepubertal children. *The Federation of American Societies for Experimental Biology Journal*, 26(Meeting Abstracts), 369.5.
61. Kamijo, K., Pontifex, M. B., **Khan, N. A.**, Raine, L. B., Scudder, M. R., Drollette, E. S., … Hillman, C. H. (2012). Childhood obesity and action monitoring. *Psychophysiology*, 49, S89–S89.
62. Nasti, C. J., **Khan, N. A.**, Evans, E. M., & Chapman-Novakofski, K. . (2011). Using a Teaching Partnership to Improve Nutrition and Exercise in College Students. *NACTA Journal*.
63. **Khan, N.**, Richey, A., Drollette, E., Scudder, M., Pontifex, M., Castelli, D., … Evans, E. (2011). Maternal Level of Education Is Negatively Related to Television Watching and Adiposity in Prepubertal Children. *Journal of Nutrition Education and Behavior*, 43(4), S33.
64. **Khan, N. A.**, Richey, A. L., Drollette, E., Scudder, M., Pontifex, M., Castelli, D. M., … Evans, E. M. (2011). Gender and race differences in bone mineral density, fat, and lean mass among black and white prepubertal children. *The Federation of American Societies for Experimental Biology Journal*, 25(Meeting Abstracts), 332.3.
65. Kamijo, K., Pontifex, M. B., Scudder, M. R., Drollette, E. S., **Khan, N. A.**, Castelli, D. M., … Hillman, C. H. (2011). Body mass and inhibitory control in preadolescent children. *Psychophysiology*, 48, S56–S56.
66. **Khan, N.**, Nasti, C., Evans, E., & Chapman-Novakofski, K. (2008). Peer education, exercising and eating right (PEER): determining changes in student self-efficacy and outcome expectations in a teaching partnership*. The Federation of American Societies for Experimental Biology Journal*, 22(1 Supplement), 684.
67. **Khan, N. A.**, Nasti, C., Evans, E. M., & Chapman-Novakofski, K. (2008). Implementing a Peer Delivered Self-Efficacy Based Undergraduate Course in Nutrition and Kinesiology. *Journal of the American Dietetic Association*, 108(9), A95.
68. **Khan, N.**, Nasti, C., Evans, E., & Chapman-Novakofski, K. (2007b). Peer education, exercising and eating right (PEER): training of peer educators in an undergraduate teaching partnership. *The Federation of American Societies for Experimental Biology Journal*, 21(6), LB50-LB50.
69. **Khan, N.**, Nasti, C., Evans, E., & Chapman-Novakofski, K. (2007a). Peer Education, Exercising and Eating Right (PEER): an Undergraduate Faculty Teaching Partnership. *Journal of Nutrition Education and Behavior*, 39(4), S90.
70. Davis, N., **Khan, N. A.**, Toston, T., Zanovec, M., Vidrine, K., Tuuri, G., & Loftin, M. J. (2006). Fracture risk assessment in African-American women using quantitative ultrasound of the os calcis. *Medicine & Science in Sports & Exercise*.

**Symposia Chaired & Symposia Presentations**

**Symposia Chaired**

1. Nutritional Implications for Brain and Cognition, Nutrition 2019, Baltimore, MD
2. Nutritional Implications for Brain and Cognition, Nutrition 2018, Boston, MA
3. Nutrition across the Lifespan: Nutrition, Neurobiology, Mood and Behavior, Experimental Biology 2017, Chicago, IL
4. Translation of Nutritional Science and Food Science and Technology in Nutrition, Experimental Biology 2017, Chicago, IL
5. Nutrition across the Lifespan: Nutrition, Neurobiology, Mood and Behavior, Experimental Biology 2016, San Diego, CA
6. Neurocognition: The Food-Brain Connection, Experimental Biology 2014, San Diego, CA

**Invited Lectures and Symposia (International)**

1. **Khan, N.A.** “The Role of Avocados in Promoting Cognitive Health”. World Avocado Congress, Medellin, Colombia, September 2019.
2. **Khan, N.A.** “Retinal Carotenoids and Childhood Cognitive Function and Achievement”. Brain and Ocular Nutrition Conference. Downing College, Cambridge University, UK, July 2018.
3. **Khan, N.A.** “The Influence of Diet and Obesity on Cognitive Function”. Hydration for Health Conference, Danone Nutricia, Évian-les-Bains, France, June 2018.
4. **Khan, N.A.** “The Relation of Total Water Intake to Cognitive Function among Prepubertal Children”. Hydration for Health Conference, Danone Nutricia, Évian-les-Bains, France, June 2014.

**Invited Lectures and Symposia (National)**

1. **Khan, N.A.** “Physiological Mechanisms by which Nutrients Influence Mental Function”. Science and Consumer Perceptions of Brain Health Ingredients Summit, Bayer Consumer HealthCare. Whippany, NJ, September 2019.
2. **Khan, N.A.** “Brain Health and Kids: Lutein & Zeaxanthin’s Role in Cognitive Control and Academic Skills”. Kemin Nutrition, September 2019.
3. **Khan, N.A.** “The Influence of Diet and Obesity on Cognitive Function”. Eastern Illinois Academy of Nutrition and Dietetics Webinar, January 2018.
4. **Khan, N.A.** “Diet and Physical Activity: Implications for Attention and Memory in Childhood”. Children’s Nutrition Research Center, Baylor College of Medicine. Houston, TX, January 2018.
5. **Khan, N.A.** “The Influence of Diet and Obesity on Cognitive Function”. Diabetes and Obesity Research Institute (DORI) Annual Symposium, University of Southern California. Los Angeles, CA, February 2018.
6. **Khan, N.A.** “Diet and Obesity Implications for Attention and Memory in Childhood”. Symposium at the International Conference on Learning and Memory at University of California. Irvine, CA, April 2018.
7. **Khan, N.A.** “The Gut-Brain Highway: Can Traffic be regulated by Diet?”. Symposium at the Food and Nutrition Conference and Expo, Academy of Nutrition and Dietetics. Boston, MA, October 2016.
8. **Khan, N.A.** “The Influence of Diet and Adiposity on Childhood Neurocognitive Function”. Presidential Invited Symposium: Juvenile Obesity, Brain, and Cognition at the Eastern Psychological Association’s Annual Meeting. New York, NY, March 2016.
9. **Khan, N.A.** “Pediatric Neurocognitive Development: Emerging Insights and Applications in Nutrition”. Symposium at Experimental Biology Conference. Boston, MA, April 2015.
10. **Khan, N.A.** “Nutrition, Hydration and Cognition: New Frontier”. Satellite Lecture at American College of Sports Medicine Annual Meeting. San Diego, CA, April 2015.
11. **Khan, N.A.** “The Influence of Adiposity and Diet on Childhood Cognitive Control and Relational Memory”. Symposium on Childhood Obesity and Cognition. American University, Washington, DC, October 2014.

**Invited Lectures and Symposia (Local)**

1. **Khan, N.A.** “Macular Xanthophylls and Cognitive Function”. Neuroscience Program Seminar Series. University of Illinois, March 2020
2. **Khan, N.A.** “Retinal Carotenoids: A Nutritional Window into Brain and Cognition”. Division of Nutritional Sciences Symposium. University of Illinois, April 2019.
3. **Khan, N.A.** “Retinal Carotenoids and Cognitive Health among Persons with Multiple Sclerosis”. Inaugural Illinois Multiple Sclerosis Research Day. University of Illinois, April 2019.
4. **Khan, N.A.** “Health Behaviors, Adiposity, and Childhood Cognitive Function”. First 1000 Days Symposium. University of Illinois, September 2018.

**Grants**

**Funded External Grants**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Investigators | Funding Agency | Title | Funding Year(s) | Total Funding |
| PI: S Donovan  Co-I: NA Khan | National Institutes of Health (RO1) | Dietary and microbial predictors of childhood obesity risk | 7/1/17-6/30/22 | $2,779,941 |
| PI: NA Khan  Co-Is: R Motl, B Adamson | National Institutes of Health – Rehabilitation Research Resource to Enhance Clinical Trials | Lutein and multiple sclerosis experimental study (LuMES): A randomized pilot trial | 7/1/19-6/30/20 | $63,394 |
| PI: HD Holscher  Co-Is: NA Khan, NA Burd | Almond Board of California | Effect of almond consumption on the gastrointestinal microbiota and postprandial glucose handling in overweight & obese adults | 11/04/19-11/30/21 | $409,086 |
| PI: HD Holscher  Co-Is: NA Khan, M Miller | National Honey Board | Daily yogurt plus honey helps support digestive health, regularity, and comfort | 09/22/19- 09/21/21 | $250,000 |
| PI: NA Burd  Co-Is: NA Khan, M Delisio | National Dairy Council | Dairy food consumption and its effects on inflammation and the postprandial regulation of muscle protein synthesis | 06/01/19- 05/31/21 | $460,293 |
| PI: AK Richards  Co-I: NA Khan | Illinois State Board of Education | Fostering a comprehensive approach to wellness through a summer learning initiative | 05/23/19- 06/30/20 | $87,784 |
| PI: N Khan  Co-Is: A Walk | National Dairy Council | Cross-sectional and longitudinal predictors of cognitive control and early academic abilities among preschool children | 05/01/2018-04/30/2022 | $671,805 |
| PI: N Burd  Co-Is: N Khan, S Petruzzello | National Cattlemen’s Beef Association | The role of beef ingestion in supporting exercise-derived benefits for the muscle-brain interconnect | 2018-2019 | $74,187 |
| PI: NA Khan  Co-PI: HD Holscher, L Renzi-Hammond | Egg Nutrition Center | Correlational and intervention effects of egg consumption on macular carotenoids, cognition, and achievement | 08/01/17- 07/31/19 | $219,631 |
| PI: N Khan  Co-Is: R Motl, L Labriola | National Multiple Sclerosis Society | Retinal lutein and visual health in multiple sclerosis | 3/1/17-2/28/19 | $43,051 |
| PI: R An  Co-Is: N Khan, S Nickols-Richardson | National Cattlemen’s Beef Association | Beef consumption in relation to cognitive function across the life course: a systematic review | 02/01/2019- 08/31/2019 | $34,909 |
| PI: N Burd  Co-Is: N Khan, S Petruzzello | National Cattlemen’s Beef Association | The role of beef ingestion in supporting exercise-derived benefits for the muscle-brain interconnect | 07/01/18 - 06/30/19 | $74,187 |
| PI: NA Khan  Co-PI: HD Holscher  Co-Is: N Burd, B Fiese | Hass Avocado Board | Investigating the effects of avocado intake on metabolic and cognitive health: a systems approach | 12/1/15-12/31/18 | $887,221 |
| PI: N Burd  Co-Is: N Khan, M DeLisio | National Cattlemen’s Beef Association | The influence of regular beef consumption and protein density of the diet on training induced gains in muscle strength and performance in healthy adults | 7/1/16-6/30/18 | $253,626 |
| PI: N Khan  Co-Is: A Walk | National Dairy Council | Diet quality and cognitive control function in early childhood: a pilot study | 8/1/16-6/30/18 | $143,487 |
| PI: J McCaffrey  Co-Is: N Khan, R An | USDA North Central Nutrition Education Center for Excellence | Evaluating the a multi-modal community nutrition education modal within SNAP-Ed and EFNEP (phase 2) | 2/1/16-8/31/18 | $56,200 |
| PI: NA Khan Co-Is: NJ Cohen, CH Hillman, AF Kramer | Abbott Laboratories | The effects of fortified nutritional supplementation on cognition, memory, and achievement | 5/16/12-12/31/18 | $2,261,636 |
| PI: NA Khan Co-I: CH Hillman | Danone Nutricia | The effects of hydration on brain, cognition, memory & achievement in childhood | 6/1/14-12/31/18 | $718,990 |
| PI: NA Khan Co-Is: J Biggan, HD Holscher, NJ Cohen, CH Hillman, AF Kramer | Abbott Laboratories | Retrospectively studying the effects of early life nutrient intake on cognitive function and brain health in preadolescent children | 8/16/15-12/31/17 | $179,433 |
| PI: J McCaffrey  Co-Is: N Khan, R An | USDA North Central Nutrition Education Center for Excellence | Evaluating a multi-modal community nutrition education modal within SNAP-Ed and EFNEP | 9/1/15-9/1/17 | $50,000 |

**Funded Internal Grants**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Investigators | Funding Agency | Title | Funding Year(s) | Total Funding |
| PI: NA Khan  Co-Is: S Donovan, Aditi Das, B Sutton, W O’Brien | Division of Nutritional Sciences (50th Anniversary) | Role of hepatic steatosis and lipid metabolites in childhood cognition and brain health | 2019-2020 | $49,980 |
| PI: NA Khan  Co-Is: S Donovan, B Meline | Division of Nutritional Sciences (Vision 20/20) | Examining prenatal and postpartum weight gain and retention as contributors to maternal carotenoid status | 10/18-10/20 | $20,000 |
| PI: NA Khan  Co-Is: M Browning, A Schwingel, HD Holscher | Christopher Family Foundation Food & Family Program Seed Grant | Gardening and family health: elucidating the role of the human and environmental microbiota | 04/17-04/19 | $50,000 |
| PI: HD Holscher  Co-Is: NA Khan, K. Wilund, B O’Brien | Division of Nutritional Sciences (Vision 20/20) | Hepatic steatosis as a novel target for a dietary fiber intervention in overweight and obese adults | 10/16-10/18 | $20,000 |
| PI: NA Khan  Co-Is: HD Holscher, J Biggan, M DeLisio | Division of Nutritional Sciences (Vision 20/20) | The effects of probiotics and prebiotics on behavioral and biological markers of cognition and stress | 9/15-9/18 | $20,000 |
| PI: M DeLisio Co-Is: NA Khan | Division of Nutritional Sciences (Vision 20/20) | The effects of overweight/obesity and acute dietary protein ingestion on muscle stem cell function | 10/14-10/16 | $20,000 |

**Unfunded External Grants**

|  |  |  |  |
| --- | --- | --- | --- |
| Investigators | Funding Agency | Title | Total Funding |
| PI: NA Khan  CO-Is: NJ Cohen, L Renzi-Hammond, Hillman, CH, S Mullen | National Institutes of Health | Enhancing children's cognitive function and achievement through carotenoid consumption | $3,669,835 |
| PI: NA Khan  Co-Is: HD Holscher, Erdman, J | Foundation for Food and Agriculture Research | Plant pigments and children's cognition: a plate-to-brain approach | $270,000 |
| PI: NA Khan  Co-Is: Donovan, S, O’Brien, Han, A, Musaad, S | National Institutes of Health | Synergistic theory and research on obesity and nutrition group - executive function and relational memory (STRONG-ER) in kids study | $3,078,992 |
| PI: NA Khan  Co-Is: A Woods, Shen, CH Hillman | National Institutes of Health | Recess policy implications for health behaviors, obesity, and cognition in childhood | $2,928,379 |
| PI: NA Khan  Co-Is: SM A Woods, Shen, CH Hillman | USDA (National Institute of Food and Agriculture) | Integrated childhood obesity and nutritional neuroscience in schools (ICONS) study | $2,449,907 |
| PI: NA Khan  Co-Is: CH Hillman, NJ Cohen | Abbott Laboratories | Nutritional enhancement of attention, memory, and achievement following consumption of a single dose of fortified supplementation in preadolescent children | $142,047 |
| PI: NA Khan | Egg Nutrition Center | Utilizing an opportunistic approach to identify the role of eggs in mitigating nutritional gaps associated with food insecurity | $ 199,949 |
| PI: NA Khan  Co-Is: CH Hillman, M Delisio | Egg Nutrition Center | Utilizing the nutrient value of eggs to optimize achievement and childhood cognitive function at breakfast | $177,279 |

**Teaching Experience**

**Undergraduate and Graduate Courses (Primary Instructor)**

*University of Illinois, Urbana, IL*

Physical Activity and Cognition (KIN 543) 2017-Present

Health Behaviors and Obesity (KIN 494) 2015-Present

Foods, Health, and Wellness (KIN 494) 2015-Present

Nutritional Neuroscience (KIN 494) 2016

*Parkland College, Champaign, IL*

Fundamentals of Nutrition (BIO 120) 2010-2014

**Invited Lectures**

Sedentary Behavior & Health (KIN 594) 2020

Interdisciplinary Approaches to Neuroscience I (NEUR 542) 2018-2019

Survey of Interdisciplinary Health (IHLT 102) 2017-Present

Clinical and Applied Exercise Physiology (KIN 452) 2019-Present

**Mentorship**

***Postdoctoral Scholars***

|  |  |  |
| --- | --- | --- |
| **Name** | **Years** | **Current Position** |
| Anne McClure Walk,  PhD in Experimental Psychology,  Saint Louis University | 2015-2018 | Assistant Professor, Eastern Illinois University |

***Doctoral Students (Director)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student Name** | **Program** | **Years** | **Dissertation Title/Topic Area** | **Current Position** |
| Caitlyn Edwards | Nutritional Sciences | 2016-2020 | *The independent and interactive influence of lutein and choline on cognitive control* | Postdoctoral Research Associate, Pennsylvania State University |
| Bridget Hannon | Nutritional Sciences | 2017-Present | *Genetic underpinnings of dietary effects on adiposity and metabolic health* | In Training |
| Corinne Cannavale | Neuroscience | 2017- Present | *Effects of nutrition on memory and learning* | In Training |
| Shelby Keye | Kinesiology | 2019-Present | *Childhood motor function and cognitive abilities* | In Training |
| Arden McMath | Nutritional Sciences | 2019-Present | *Childhood obesity, cognitive function, and gastrointestinal microbiome* | In Training |
| Grace Niemiro | Kinesiology | 2016-2018 | *Lifestyle and exercise effects on circulating progenitor cells in children and adults* | Postdoctoral Research Associate, University of Arizona |

***Masters Students (Director)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student Name** | **Program** | **Years** | **Thesis Title/Topic Area** | **Current Position** |
| John Kim | Kinesiology | 2019-Present | *Exercise-induced myokines and cognitive function* | In Training |
| Ruyu Liu | Nutritional Sciences | 2018-Present | *Dietary and genetic predictors of lutein status in childhood* | In Training |
| Susan Mantell | Nutritional Sciences | 2018-Present | *Non-thesis MS* | In Training |
| Nathaniel Willis | Nutritional Sciences | 2019-Present | *Hydration effects on cognitive function* | In Training |
| Andrew Dinsmoor | Nutritional Sciences | 2018-Present | *Dietary quality and gastrointestinal microbiota composition in early childhood* | In Training |
| Jonathan Cerna | Nutritional Sciences | 2018-Present | *Macular xanthophylls as predictors of retinal morphometry and cognitive function among persons with multiple sclerosis* | In Training |
| Alicia Jones | Kinesiology | 2017-2018 | *Retinal morphometric markers of crystallized and fluid intelligence among adults with overweight and obesity* | PhD Student, University of Illinois |
| Morgan Curran | Nutritional Sciences | 2015-2018 | *The negative influence of adiposity extends to intraindividual variability in cognitive control among preadolescent children* | Registered Dietitian |
| Nicholas Baumgartner | Kinesiology | 2015-2017 | *The influence of physical activity, sedentary time, and adiposity on behavioral and neurolectric measures of attentional inhibition* | PhD Student, Purdue University |

***Doctoral Students (Committee Member)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student Name** | **Program** | **Years** | **Dissertation Title/Topic Area** | **Current Position** |
| Sangyun Joung | Neuroscience | 2019-Present | *Development of delay eye blink conditioning in neonatal pigs* | In Training |
| Colleen McKenna | Nutrition | 2019-Present | *TBD* | In Training |
| Tiffany Yang | Psychology | 2019-Present | *Sex differences in exercise-mediated changes in diet preference and its associated metabolic and cognitive outcomes* | In Training |
| Alex Baldeon | Nutritional Sciences | 2019-Present | *TBD* | In Training |
| Marcela Catalán | Community Health | 2018-Present | *Parental feeding styles and weight status of preschool children in Chile: perceptions and influential factors* | In Training |
| Annemarie Krug | Food Science and Human Nutrition | 2017-Present | *Gastrointestinal microbiome and emotional regulation* | In Training |
| Steve Douglas | Nutrition | 2017-2019 | *Participation in the school breakfast program, diet quality, and cognitive performance in adolescents* | Postdoctoral Researcher |
| Kelsey Hassevoort | Neuroscience | 2013-Present | *The impact of lifestyle factors and development on relational*  *Memory* | Research Development Specialist, UI |
| Sharon Thompson | Nutritional Sciences | 2015-Present | *Dietary modulation of the human gastrointestinal microbiota* | In Training |
| Gabriella McLoughlin | Kinesiology | 2016-Present | *The role of physical education within a comprehensive school health program* | Postdoc, Iowa State University |
| Liliana Aguayo | Community Health | 2017-Present | *TBD* | Postdoc, Northwestern University |
| Lauren Raine | Kinesiology | 2014-2016 | *Obesity, visceral adipose tissue, and cognition in childhood* | Postdoc, NEU |
| Shih-Chun (Alvin) Kao | Kinesiology | 2015-2017 | *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* | Assistant Professor, Purdue University |

***Masters Students (Committee Member)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student Name** | **Program** | **Years** | **Thesis Title/Topic Area** | **Current Position** |
| Marina Brown | Food Science & Human Nutrition | 2019-Present | *TBD* | In Training |
| Susannah Scaroni | Nutritional Sciences | 2017-Present | *TBD* | In Training |
| Andrew Taylor | Food Science and Human Nutrition | 2016-Present | *The gut-microbiota-brain axis: influence of diet and the gastrointestinal microbiota on stress and anxiety in adults* | In Training |
| Melisa Bailey | Nutritional Sciences | 2016-Present | *Dietary fats, the gastrointestinal microbiome, and inflammation* | In Training |
| Joanna Manero | Nutritional Sciences | 2015-2017 | *Influence of seasoning and preparation of vegetables on consumer choice, consumption, and liking* | Nutritionist, WIC |
| Julia Balto | Kinesiology | 2014-2016 | *The case for multiple health behavior change interventions in*  *Multiple sclerosis* | Health and Happiness Coach, CA |
| Sasha McCorkle | Nutritional Sciences | 2014-2016 | *Macular pigment optical density and academic achievement among preadolescent children* | Scientist, Hills Pet Nutrition |

***Undergraduate Students***

My laboratory has enrolled 113 undergraduate students since 2015 as Undergraduate Research Assistants by offering course credit for assistance in all aspects of data collection. Students enrolled in the laboratory course learn assessment techniques in nutrition, aerobic fitness, physical activity, and cognitive neuroscience. Several students have also conducted individual projects and presented their research at local and national meetings.

***Undergraduate Students with Research Presentations***

|  |  |  |
| --- | --- | --- |
| **Name** | **Terms** | **Presentation/Poster** |
| Jackson Evensen | 2015-2017 | Experimental Biology, 2017 |
| Jessica Park | 2015-2017 | Undergraduate Research Symposium, 2017 |
| Alaina Balbinot | 2016-Present | Undergraduate Research Symposium, 2017 |
| Food and Nutrition Conference and Expo, 2017 |
| Payton Walters |  | Undergraduate Research Symposium, 2017 |
| Patricia Ebersold |  | Undergraduate Research Symposium, 2018 |
| Marc Sleiman | 2017-Present | Undergraduate Research Symposium, 2018 |
| Madi Podjasek | 2017-Present | Undergraduate Research Symposium, 2018 |
| Justin Lee | 2017-Present | Undergraduate Research Symposium, 2018 |
| Chanyoung Choi | 2017-Present | Undergraduate Research Symposium, 2018 |
| Nitesh Kumar | 2017-Present | Undergraduate Research Symposium, 2018 |

**Society Memberships**

American Society for Nutrition

American College of Sports Medicine

Society of Health and Physical Educators (SHAPE America)

North American Society for the Psychology of Sport and Physical Activity

**Service**

National Committees

2019 Core Neuropsychological Measures for Obesity and Diabetes Trials Workshop, NIH

2016-2017 Nutrition and Health Committee for Planning and Guidance, USDA, NIFA

Advisory Boards

2015-2019 Nutrition Translation Research Interest Section, American Society for Nutrition

Journal Editorial Boards

2019-Present *Nutrients*

*Ad hoc* Journal Reviewer

*Journal of Nutrition Education and Behavior (Statistical Reviewer)*

*Journal of Nutrition*

*Nutritional Neuroscience*

*Appetite*

*British Journal of Nutrition*

*American Journal of Clinical Nutrition*

*Psychophysiology*

*Obesity*

*Contemporary Clinical Trials*

*Obesity Reviews*

*Preventative Medicine*

*Frontiers Psychology*

*JAMA Pediatrics*

*Developmental Cognitive Neuroscience*

University of Illinois at Urbana-Champaign

Campus Service

Campus Research Board *Ad Hoc* Grant reviewer

Family Resiliency Center *Ad Hoc* Grant reviewer

College of Applied Health Sciences

College Education Policy Committee, 2019-Present

*Ad Hoc* Committee to Develop Visiting Student Policy, 2020

Department of Kinesiology and Community Health

Graduate Student Conference Travel Grant Review Committee, 2016-2017

Assistant or Associate Professor in Children’s Physical Activity Search Committee, 2016-2017

Assistant or Associate Professor in Children’s Physical Activity Search Committee, 2017-2018

Grievance Committee, 2020-Present

*Ad Hoc* Kinesiology Minor Development Committee, Chair, 2017-2018

Assistant Professor in Exercise Physiology Search Committee, 2019-2020

Division of Nutritional Sciences Service

Annual Student Review Committee, 2015-2018

Executive Committee Member, 2017-Present