Dr. Jacob Barkley, Ph.D

Assistant Professor HS jbarkle1@kent.edu

Education	
Ph.D., Exercise Science/Applied Physiology State University of New York at Buffalo	2007
M.S., Exercise Science/Applied Physiology State University of New York at Buffalo	2002
B.S., Physical Education/Exercise Physiology State University of New York College at Brockport	1998
Higher Education Work Experience	
Assistant Professor Kent State University Assistant Professor in the School of Exercise Leisure and Sport. Teaching, advising and doing research Science program.	08/2006 - present ch in the Exercise
Graduate Research Assistant SUNY University at Buffalo Served as a research assistant in the Division of Behavioral Medicine in the Department of Pediatrics.	08/2003 - 08/2006
Graduate Teaching Assistant SUNY University at Buffalo Served as a teaching assistant in the Department of Exercise and Nutrition Sciences.	08/1999 - 08/2003
Other Professional Experience	

Personal Trainer 11/2000 - 11/2004

K.C.'s Fitness, Buffalo NY

2012

Rich Products, Buffalo NY

Research Assistant 09/1997 - 05/1998

Department of Physical Education and Sport Brockport State College

Publications	
Barkley, J.E., S.J. Salvy, G.J. Sanders, S. Dey, K.P. Von Carlowitz, and M.L. Williamson (2013). Peer Influence and Physical Activity Behavior in Young Children; an Experimental Study <i>Journal of Physical Activity and Health</i> . Jan 28. [Epub ahead of print]	2013
Publication: Journal Articles, Refereed	
Juvancic-Heltzel, J.A., E.L. Glickman and J.E. Barkley (2013). The Effect of Variety on Physical Activity: a Cross-Sectional Study <i>Journal of Strength and Conditioning Research</i> . 27(1):244-251	2013
Publication: Journal Articles, Refereed	
Ryan, E.J., Kim, C-H., Muller, M.D., Bellar, D.M., Barkley, J.E., Bliss, M.V., Jankowski-Wilkinson, A., Russell, M., Macander, D., Otterstetter, R., Glickman, E.L. & G.H. Kamimori. (2012) Low dose caffeine administered in chewing gum does not enhance cycling to exhaustion. <i>Journal of Strength and Conditioning Research</i> . Epub ahead of print Publication: <i>Journal Articles, Refereed</i>	2012
Publication. Journal Articles, Refereed	
Feda, D.M., M.J. Lambiase, J.E. Barkley, and J.N. Roemmich (2012). Effect of Increasing the Variety of Active Toys on Children's Active Play. <i>The Journal of Science and Medicine in Sport.</i> 15(4):334-40. 15(4):334-40.	2012
Publication: Journal Articles, Refereed	
Barkley, J.E., S.J. Salvy, and J.N. Roemmich. (2012) The Effect of Simulated Ostracism on Physical Activity Behavior in Children. <i>Pediatrics</i> . doi:10.1542/peds.2011-0496.	2012
Publication: Journal Articles, Refereed	
Sanders, G.J., A.S. Santo, C.A. Peakock, K.P. Von Carlowitz, and J.E. Barkley Physiologic Responses, Liking and Motivation for Playing a Video Game on a Physically Interactive Versus a Traditional Gaming System. (2012) <i>The International Journal of Exercise Physiology</i> . 5(2): 160-169	2012
Publication: Journal Articles, Refereed	
Salvy, S.J., J.C. Bowker, L.A. Nitecki, M.A. Kluczynski, and J.E. Barkley. Influence of Peers and Friends on Overweight/Obese Youths' Physical Activity. (2012). Exercise and Sport Sciences Reviews. 40(3): 127-132.	2012
Publication: Journal Articles, Refereed	

Roemmich, J.N., C.L. Lobarinas, J.E. Barkley, T.M. White, R. Paluch, and L.H. Epstein. Use of an Open-loop System to Increase Physical Activity. (2012) *Pediatric Exercise Science*. 24(3):384-98.

Publication: Journal Articles, Refereed

Peer influence and physical activity behavior in young children; a controlled study. Medicine and Science in Sport and Exercise, 43(5) Supplement: S224. 58th Meeting of the American College of Sports Medicine, Denver, CO. Publication: Conference Proceedings, Refereed Penko, A.L., J.E. Barkley, and J.L. Alberts (2011). Validity of the Borg RPE Scale for 2011 Parkinson's Patients. Medicine and Science in Sport and Exercise, 43(5) Supplement: S61. 58 58th Meeting of the American College of Sports Medicine, Denver, CO. Publication: Conference Proceedings, Refereed Sanders, G.J., A.S. Santo, C.A. Peacock, K.P. Von Carlowitz, and J.E. Barkley, J.E. (2011). Physiologic Responses 2011 and N Physiologic Responses, Liking and Motivation for Playing a Video Game on a Physically Interactive Versus a Traditional Gaming System Medicine and Science in Sport and Exercise, 43(5) Supplement: S52. 58th Meeting of the American College of Sports Medicine, Denver, CO. Publication: Conference Proceedings, Refereed Rittenhouse, M., S.J. Salvy and J.E. Barkley. (2011) The Effect of Peer Influence on the Amount 2011 of Physical Activity Performed in 8-to 12-Year-Old-Boys Pediatric Exercise Science. 23: 49-60.* Publication: Journal Articles, Refereed Barkley, J.E., and J.N. Roemmich. (2011) Validity of Pediatric RPE Scales When Different 2011 Exercise Intensities are Completed on Separate Days. Journal of Exercise Science and Fitness. 9(1): 52-57. 9(1): 52-57. Publication: Journal Articles, Refereed Barkley, J.E., J.N. Roemmich, E.J. Ryan, D. Bellar and M.V. Bliss. (2011) Variety of Exercise 2011 Equipment and Physical Activity Participation in Children. Journal of Sport Behavior. 34(2): 137-149 Publication: Journal Articles, Refereed Bellar, D., G.H. Kamimori, J.E. Barkley, E.J. Ryan, M. Muller, and E.L. Glickman. (2011) The 2011 Effect of Low-Dose Caffeine Supplementation on Early Morning Performance in the Standing Shot Put Throw. European Journal of Sports Science, iFirst articleDOI:10.1080/17461391.2010.536585 Publication: Journal Articles. Refereed Bellar, D., M. Muller, E.J. Ryan, M.V. Bliss, J.E. Barkley, and E.L. Glickman. (2011) The Effects 2011 of Combined Elastic and Free Weight Tension versus Free Weight Tension on One Repetition Maximum Strength in the Bench Presslournal of Strength and Conditioning Research. 25(2): 459-463. Publication: Journal Articles, Refereed Barkley, J.E. S.J. Salvy, and J.N. Roemmich (2010). The Effect of Simulated Ostracism on 2010 Physical Activity Behavior in Children. Obesity, 18(2) Supplement: S115. 28th Annual Scientific Meeting of the Obesity Society, San Diego, CA. October 2010. Publication: Conference Proceedings, Refereed Juvancic-Heltzel, J.A. and J.E. Barkley (2010). Effect of Variety on the Amount of Physical 2010 Activity in Children, Young and Older Adults. Medicine and Science in Sport and Exercise, 42(5) Supplement: S559. 57th Meeting of the American College of Sports Medicine Baltimore, MD. Publication: Conference Proceedings, Refereed

Barkley, J.E. S.J. Salvy, G.J. Sanders, S. Dey, K.P. Von Carlowitz, and M.L. Williamson (2011).

2011

2003

Penko, A., and J.E. Barkley. (2010) Physiologic Responses and Motivation to Play a Physically Interactive Video Game Relative to a Sedentary Alternative in Children Annals of Behavioral Medicine. 39(2):162-9.

Publication: Journal Articles, Refereed

Malloy-McFall, J. J.E. Barkley, K. Lowry Gordon, N. Burzminski, and E.L. Glickman. (2010) Effect of the DASH Diet2010 Pre- and Effect of the DASH Diet on Pre- and Stage 1 Hypertensive Individuals in a Free-Living Environment. Nutrition and Metabolic Insights. 3:15-23.

Publication: Journal Articles, Refereed

Peer, K.S., J.E. Barkley, D.M. Knapp. (2009) The Acute Effects of Local Vibration Therapy on Ankle Sprain and Hamstring Strain Injuries. <i>The Physician and Sportsmedicine</i> . 37(4):31-8. Publication: <i>Journal Articles, Refereed</i>	2010
Barkley, J.E., J.N. Roemmich and L.H. Epstein. (2009) Reinforcing Value of Interval and Continuous Physical Activity in Children. Physiology and Behavior Aug (1-2):31-6. Publication: <i>Journal Articles, Refereed</i>	2009
Barkley, J.E., A. Penko. (2009) Physiologic Responses, Perceived Exertion and Hedonics of Playing a Physically Interactive Video Game Relative to a Sedentary Alternative and Treadmill Walking in Adults. Journal of Exercise Physiology Online. June 12(3): 12-23. Publication: Journal Articles, Refereed	2009
Kamimori, G.H., E.J. Ryan, R. Otterstetter, J.E. Barkley, E.L. Glickman, and H.Q. Davis. (2009) Catecholamine Response to Hypoxia-Induced Acute Mountain Sickness. Aviation, Space and Environmental Medicine Apr;80(4):376-80. Publication: <i>Journal Articles, Refereed</i>	2009
Roemmich, J.N., J.E. Barkley, C.L. Lobarinas, J.H. Foster, T.M. White, and L.H. Epstein (2008). Association of Liking and Reinforcing Value with Children's Physical Activity. Physiology & Behavior. 18.93(4-5):1011-1018. Publication: <i>Journal Articles, Refereed</i>	2008
Barkley, J.E., and J.N. Roemmich (2008). Validity of the CALER and OMNI-Bike Ratings of Perceived Exertion. Medicine and Science in Sport and Exercise. 40(4): 760-66. (D) Publication: <i>Journal Articles, Refereed</i>	2008
Roemmich, J.N., J.E. Barkley, L. D'Andrea, M. Nikova, A. D. Rogal, M.A. Carskadon and P.M. Suratt. (2006). Overweight Following Adenotonsillectomy in Children with Obstructive Sleep Disordered Breathing: Association with Decreases in Motor Activity and Hyperactivity. Pediatrics, 117(2):e200-8. Publication: <i>Journal Articles, Refereed</i>	2006
Roemmich, J.N., J.E. Barkley, C. Kuo, L.H. Epstein, T.M. White, J.H. Foster, and R. Paluch. (2006). Validity of CERT and OMNI-walk/run Ratings of Perceived Exertion During Treadmill Exercise. Medicine and Science in Sport and Exercise 38(5):1014-9. Publication: <i>Journal Articles, Refereed</i>	2006

Gosselin, L.E., J.E. Barkley, M.J. Spencer, K.M. McCormick, and G.A. Farkas. (2003) Ventilatory

dysfunction in mdx mice: Impact of tumor necrosis factor-alpha deletion. Muscle Nerve, 28:

Publication: Journal Articles, Refereed

336-343.

Presentations	
Barkley, J.E. Increasing the Variety of Exercise Equipment Increases Physical Activity in Children. International Forum on Sport, Exercise and Leisure. Shijizhuang, China. May 2008.	2008
Type: International Invited	
Barkley, J.E. Laboratory Experiences for a senior/Masters Level Exercise testing Class. International Forum on Sport, Exercise and Leisure. Shijizhuang, China. May 2008.	2008
Type: International Invited	
Barkley, J.E. Curriculum Trends in Exercise Science. International Forum on Sport, Exercise and Leisure. Shijizhuang, China. May 2008.	2008
Type: International Invited	
Barkley, J.E., J.N. Roemmich, E.J. Ryan, D. Bellar, M.V. Bliss and M.A. Rittenhouse (2008). The Effect of Increasing the Variety of Exercise Equipment on the Physical Activity Level of Children. Medicine and Science in Sport and Exercise, 40(5) Supplement: S320, May 2008. 55th Meeting of the American College of Sports Medicine, Indianapolis, IN.	2008
Type: National Refereed	
Barkley, J.E., J.N. Roemmich, and L.H. Epstein (2007 May). Relationship Between A Computer Task To Assess The RRV Of Interval Versus Continuous Exercise And Free Choice Exercise. Power-point presentation at the 54rd Meeting of the American College of Sports Medicine, New Orleans, LA.	2007
Type: National Refereed	
Roemmich, J.N., Barkley, J.E, Lobarinas, C.L., Epstein, L.H., Foster, J.H., and White, T.M. (2007 May). Liking and Reinforcing Value: Independent Predictors of Children\'s Physical Activity. Power-point presentation at the 54rd Meeting of the American College of Sports Medicine, New Orleans, LA.	2007
Type: National Refereed	
Barkley, J.E., J.N. Roemmich, L.H. Epstein, and J. McNelis. (2006 June). Reinforcing Value of Interval and Continuous Exercise Above and Below the Ventilatory Threshold. Power-point presentation at the 53rd Meeting of the American College of Sports Medicine, Denver, CO.	2006
Type: National Refereed	
Barkley, J.E., J.N. Roemmich, C.Kuo, L.H. Epstein, T.M. White, J.H. Foster, and R. Paluch. (2005 June). Validity of Omni and Cert RPE Scales in Children. Power-point presentation at the 52nd Meeting of the American College of Sports Medicine, Nashville, TN.	2005
Type: National Refereed	
Roemmich, J.N., J.E. Barkley, L. D'Andrea, M. Nikova, P. Rogal, M.A. Carskadon and P.M. Suratt. (2005 June). Overweight Following Adenotonsillectomy in Children with Obstructive Sleep Disordered Breathing: Association with Decreases in Motor Activity and Hyperactivity. Poster presented at the 52st Meeting of the American College of Sports Medicine, Nashville, TN.	2005

Type: National Refereed

Barkley, J.E., J.N. Roemmich, C.Kuo, L.H. Epstein, L. Gopolan, and C. Gurgol. Predictors of Self-Reported Physical Activity of Children. (2004 May). Power-point presentation at the 51st Meeting of the American College of Sports Medicine, Indianapolis, IN.

Type: National Refereed

Barkley, J.E., M. Spencer, G.A. Farkas, K.M. McCormick, and L.E. Gosselin. (2002 June). Impact of TNF-Alpha Elimination on Ventilation and Diaphragm Contractility in Dystrophic Mice. Poster presented at the 49th Meeting of the American College of Sports Medicine, St. Louis, MO.

Type: National Refereed

Barkley, J.E., J. Hartel, J. Granchelli, G.A. Farkas, and L.E. Gosselin. (2001 May). Impact of Prednisone on Ventilation and Diaphragm Muscle Contractility in mdx Mice. Poster presented at the 48th Meeting of the American College of Sports Medicine, Baltimore, MD.

Type: National Refereed

Service

Workshop Instructor - ACSM Health Fitness Instructor (HFI)

2007 - 2007

Type: National

Committee, The School of Exercise, Leisure and Sport Curriculum Committee

2007 - present

Representative for the Physical Education unit on the committee.

Type: Department

Member, The American College of Sports Medicine (ACSM)

2004 - present

Type: National

Grants

PI, The Acute Effect of Meals of Differing Fat and Calorie Content on Physical Activity Behavior in Children

2011 - 2013

Status: Awarded

Collaboration with: Jacob Barkley

Submitted: \$5,000.00

Awarded: \$5,000.00 (3 2011) EHHS - Applied Research

Co PI, Simulated Ostracism on Youth's Eating and Physical Activity Behavior Role: co-Principal Investigator

2010 - 2014

Collaboration with: Jacob Barkley Sarah Salvy

Submitted: \$365,587.00 National Institutes of Health - Applied Research

PI, The effect of peer influence on a session of physical activity in young children

2009 - 2010 Status: Awarded

Status: Not Funded

Submitted: \$500.00

Awarded: \$500.00 (5 2009)

SELS - Basic Research

2002

2004

2001

PI, The effect of peer influence on physical activity patterns in lean and overweight male 2008 - 2009 children

Collaboration with: Barkley, J.E.

Submitted: \$2,462.00 Status: Awarded

Awarded: \$2,462.00 (05 2008)

Kent State University Research Council - Basic Research

PI, The effect of peer influence on physical activity patterns in lean and overweight male 2008 - 2008 children

Collaboration with: Barkley, J.E.

Submitted: \$6,500.00 Status: Awarded

Awarded: \$6,500.00 (12 2007)

Kent State University Research and Graduate Studies - Basic Research

PI, Energy expenditure and the reinforcing value of the Nintendo Wii in children 2008 - 2008

Collaboration with: Barkley, J.E.

Submitted: \$500.00 Status: Awarded

Awarded: \$500.00 (05 2008) SELS - Basic Research

PI, The effect of increasing the variety of resistance training equipment on the amount of physical activity children perform.

Collaboration with: Barkley, J.E., Bellar, D. and Bliss, M.

Awarded: \$500.00

School of Exercise, Leisure and Sport

PI, Reinforcing value of interval and continuous exercise above and below the ventilatory 2006 - 2007 threshold in lean and overweight children.

Collaboration with: Barkley, J.E., Dix, L. and Atkins, A.

Awarded: \$500.00

School of Exercise, Leisure and Sport

PI, The Effect of Exercise Intensity on Insulin Sensitivity in Obese, Insulin Resistant 2004 - 2005 Children

Collaboration with: Barkley, J.E.

Awarded: \$1,500.00

Gatorade Sports Science Institute

PI, Reinforcing value of interval and continuous exercise above and below the ventilatory threshold.

Collaboration with: Barkley, J.E.

Awarded: \$1,093.00

Mark Diamond Research Foundation

Consultant, An investigation of the effectiveness of biomechanical stimulation using the 0 - 2008 Swiss Wing

Collaboration with: Kimberly Peer, Ph.D.

Submitted: \$20,000.00 Status: Awarded

Awarded: \$20,000.00 (9 2010)

Private Industry Grant - Applied Research

PI, Altering the relative reinforcing value of a prescribed bout of physical activity in lean and at-risk-for/overweight children

0 - present

Submitted: \$28,619.00

Status: Not Funded

Ohio Board of Regents - Basic Research