

UNIVERSITY OF MIAMI
Curriculum Vitae

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PERSONAL

Name: Kevin Allen Jacobs

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Office address: University of Miami, P.O. Box 248065, Coral Gables, FL 33146

Current academic rank: Associate Professor

Primary department: Kinesiology and Sport Sciences

HIGHER EDUCATION

Ph.D.	The Ohio State University Exercise Physiology	2000
M.A.	San Diego State University Physical Education – Applied Exercise Physiology	1993
B.A.	University of California, Riverside Psychology	1990

PROFESSIONAL EXPERIENCE

Academic:

University of Miami	
Associate Dean for Research	2018-Present
Associate Chair	2017-2018
Graduate Program Director	2017-Present
Graduate Program Coordinator	2008-2017
Associate Professor	2010-Present
Assistant Professor	2004-2010
University of California, Berkeley and Palo Alto VA Health Care System	
Postdoctoral Fellow	2000-2004

The Ohio State University
Graduate Research Assistant 1995-2000

San Diego State University
Graduate Assistant 1992-1993

Non-academic:

Geo-Centers
Research Physiologist 1994-1995

Military: No military experience

PUBLICATIONS

Books and Monographs Published:

Sherman WM, **Jacobs KA**, and Ferrara C. Nutritional strategies to optimize athletic performance. In: *Handbook of Exercise in Diabetes*. Ruderman N, Devlin JT, and Schneider SH (Eds.). Alexandria: American Diabetes Association, 2002, pp. 339-354.

Jacobs KA, Paul DR, and Sherman WM. Fat metabolism. In: *Exercise and Sport Science*. Garrett, Jr. WE and Kirkendall DT (Eds.). New York: Lippincott Williams & Wilkins, 1999, pp. 9-18.

Sherman W, **Jacobs K**, and Leenders N. Carbohydrate metabolism during endurance exercise. In: *Overtraining In Sport: Physiological, Psychological, and Biomedical Considerations*. Kreider RB, Fry AC, and O'Toole ML (Eds.). Champaign: Human Kinetics, 1998, pp. 289-307.

Manuscripts in Preparation:

Jacobs KA, McMillan DW, Mendez AJ, Nash MS. A case report on postprandial fat metabolism and the modifying effects of exercise in spinal cord injury. *Spinal Cord Series and Cases* (submission planned by the end of September 2021).

Manuscripts in Peer Review:

Seeley AD, Cahalin LP, Ahn S, Perry AC, Arwari B, **Jacobs KA**. Ischemic preconditioning, blood flow, and ventilatory compensations at hypoxia. *Journal of Applied Physiology*.

Manuscripts In Press:

None

Juried or Refereed Journal Articles and Exhibitions:

Manuscript and Citation Data

49 manuscripts, 109 co-authors, and 997 total citations

SCOPUS *h*-index: 18

Google Scholar *h*-index: 25

Google Scholar i10-index: 34

Jacobs KA, McMillan DW, Maher JL, Bilzon JLJ, Nash MS. Neither postabsorptive resting nor postprandial fat oxidation are related to peak fat oxidation in men with chronic paraplegia. *Frontiers in Nutrition* 8, 2021.

McMillan DW, Henderson GC, Nash MS, **Jacobs KA**. Effect of paraplegia on the time course of exogenous fatty acid incorporation into the plasma triacylglycerol pool in the postprandial state. *Frontiers in Physiology* 12, 2021.

McMillan DW, Kressler J, **Jacobs KA**, Nash MS. Substrate metabolism during recovery from circuit resistance exercise in persons with spinal cord injury. *European Journal of Applied Physiology* 121:1631-1640, 2021.

McMillan DW, Maher JL, **Jacobs KA**, Mendez AJ, Nash MS, Bilzon JLJ. Effects of exercise mode on postprandial metabolism in humans with chronic paraplegia. *Medicine and Science in Sports and Exercise* 53: 1495-1504, 2021.

McMillan DW, Maher JL, **Jacobs KA**, Nash MS, Bilzon JLJ. Physiological responses to moderate intensity continuous and high intensity interval exercise in persons with paraplegia. *Spinal Cord* 59: 26-33, 2021.

McMillan DW, Maher JL, **Jacobs KA**, Nash MS, Gater DR. Exercise interventions targeting obesity in persons with spinal cord injury. *Topics in Spinal Cord Injury Rehabilitation* 27:109-120, 2021.

Potiaumpai M, Cutrono S, Medina T, Koepfel M, Pirl WF, **Jacobs KA**, Eltoukhy M, Signorile JF. Multidirectional walking in hematopoietic stem cell transplant patients. *Medicine and Science in Sports and Exercise* 53: 258-266, 2021.

Seeley AD and **Jacobs KA**. IPC Recovery Length of 45 Minutes Improves Muscle Oxygen Saturation During Active Sprint Recovery. *European Journal of Sport Science*. Online ahead of print, 2021.

Seeley AD, **Jacobs KA**, Signorile JF. Acute soy supplementation improves 20-km time trial performance, power, and speed. *Medicine and Science in Sports and Exercise* 52: 170-177, 2020.

Buskard ANL, **Jacobs KA**, Eltoukhy MM, Strand KL, Villanueva L, Desai PP, Signorile JF. Optimal approach to load progressions during strength training in older adults. *Medicine and Science in Sports and Exercise* 51: 2224-2233, 2019.

McMillan DW, Maher JL, **Jacobs KA**, Mendez AJ, Nash MS, Bilzon JJ. Influence of upper-body continuous, resistance or high-intensity interval training (CRIT) on postprandial responses in persons with spinal cord injury: study protocol for a randomized controlled trial. *Trials* 20: 497, 2019.

Roberson KB, Signorile JF, Singer C, **Jacobs KA**, Eltoukhy M, Ruta N, Mazzei N, Buskard A. Hemodynamic responses to an exercise stress test in Parkinson's disease patients without orthostatic intolerance. *Applied Physiology, Nutrition, and Metabolism* 44: 751-758, 2019.

Bailey CH, Signorile JF, Perry AC, **Jacobs KA**, Myers ND. Beta-alanine does not enhance the effects of resistance training in older adults. *Journal of Dietary Supplements* 15: 860-870, 2018.

Roberson KB, Potiaumpai M, Widdowson K, Jaghab A, Chowdhari S, Armitage C, Seeley AD, **Jacobs KA**, Signorile JF. Effects of high-velocity circuit resistance and treadmill training on cardiometabolic risk, blood markers, and quality of life in older adults. *Applied Physiology, Nutrition, and Metabolism* 43: 822-832, 2018.

Balachandran AT, Gandia K, **Jacobs KA**, Streiner DL, Eltoukhy M, Signorile JF. Power training using pneumatic machines vs. plate-loaded machines to improve muscle power in older adults. *Experimental Gerontology* 98: 134-142, 2017.

Meyers AC, Caldwell EC, Hirsch J, **Jacobs KA**, Pohlig RT, Signorile JF. Orthotic bicycle insoles show no effects on leg muscle activation patterns or performance in recreational cyclists. *Footwear Science* 1-9: July 2017.

Roberson KB, **Jacobs KA**, White MJ, Signorile JF. Loads and movement speed affect energy expenditure during circuit resistance exercise. *Applied Physiology, Nutrition, and Metabolism* 42: 637-646, 2017.

Cutrono SE, Lewis JE, Perry A, Signorile J, Tiozzo E, **Jacobs KA**. The effect of a community-based exercise program on inflammation, metabolic risk, and fitness levels among persons living with HIV/AIDS. *AIDS and Behavior* 20: 1123-1131, 2016.

Hittinger EA, Maher JL, Nash MS, Perry AC, Signorile JF, Kressler J, **Jacobs KA**. Ischemic preconditioning does not improve peak exercise capacity at sea level or simulated high altitude in trained male cyclists. *Applied Physiology, Nutrition, and Metabolism* 40: 65-71, 2015.

Kressler J, **Jacobs KA**, Burns P, Betancourt L, Nash MS. Effect of circuit resistance training and timely protein supplementation on exercise-induced fat oxidation in tetraplegic adults. *Topics in Spinal Cord Injury Rehabilitation* 20: 113-122, 2014.

Serravite DH, Perry A, **Jacobs KA**, Adams JA, Harriell K, Signorile JF. Effect of whole-body periodic acceleration on exercise-induced muscle damage after eccentric exercise. *International Journal of Sports Physiology and Performance* 9: 985-992, 2014.

Vance DD, Chen GL, Stoutenberg M, Myerburg RJ, **Jacobs K**, Nathanson L, Perry A, Seo D, Goldschmidt-Clermont PJ, Rampersaud E. Cardiac performance, biomarkers and gene expression studies in previously sedentary men participating in half marathon training. *BMC Sports Science, Medicine, and Rehabilitation* 19, 2014.

Jacobs KA, Burns P, Kressler J, and Nash MS. Heavy reliance on carbohydrate across a wide range of exercise intensities during voluntary arm ergometry in persons with paraplegia. *Journal of Spinal Cord Medicine* 36: 427-435, 2013.

Lisman P, Signorile JF, Del Rossi G, Asfour S, Eltoukhy M, Stambolian D, and **Jacobs KA**. Investigation of the effects of cervical strength training on neck strength, EMG, and head kinematics during a football tackle. *International Journal of Sports Science and Engineering*, 6: 131-140, 2012.

Stoutenberg M, Kressler J, Chen GL, Perry AC, Meyerburg RJ, Mendez AJ, Signorile JF, Arheart KL, Lewis JE, **Jacobs KA**. Aerobic training does not alter CRP concentrations in apparently healthy, untrained men. *Journal of Sports Medicine and Physical Fitness* 52: 53-62, 2012.

Jacobs KA, Kressler J, Stoutenberg M, Roos BA, Friedlander AL. Sildenafil has little influence on cardiovascular hemodynamics or 6-km time trial performance in trained men or women at simulated high altitude. *High Altitude Medicine and Biology* 12: 215-222, 2011.

Kressler J, Stoutenberg M, Roos BA, Friedlander AL, Perry AC, Signorile JF, **Jacobs KA**. Sildenafil does not improve steady state cardiovascular hemodynamics, peak power, or 15-km time trial cycling performance at simulated moderate or high altitudes in men and women. *European Journal of Applied Physiology* 111: 3031-3040, 2011.

Musto A, **Jacobs K**, Nash M, Del Rossi G, and Perry A. The effects of an incremental approach to 10,000 steps a day on metabolic syndrome components in sedentary overweight women. *Journal of Physical Activity and Health* 7: 737-745, 2010.

Adams JA, Edwards D, Serravite D, Bedient AM, Huntsman E, **Jacobs KA**, Del Rossi G, Roos BA, and Signorile JF. Optimal frequency, displacement, duration, and recovery patterns to maximize power output following acute whole-body vibration. *Journal of Strength and Conditioning Research* 23: 237-245, 2009.

Friedlander AL, **Jacobs KA**, Fattor JA, Horning MA, Hagobian TA, Bauer TA, Wolfel EE, and Brooks GA. Contributions of working muscle to whole body lipid metabolism are altered by exercise intensity and training. *American Journal of Physiology - Endocrinology and Metabolism* 292: E107-E116, 2007.

Suh SH, Paik IY, and **Jacobs KA**. Regulation of blood glucose homeostasis during exercise. *Molecules and Cells* 23: 272-279, 2007.

Wallis GA, Friedlander AL, **Jacobs KA**, Horning MA, Fattor JA, Wolfel EE, Lopaschuk GD, and Brooks GA. Substantial working muscle glycerol turnover during two-legged cycle ergometry. *American Journal of Physiology - Endocrinology and Metabolism* 293: E950-E957, 2007.

Hagobian TA, **Jacobs KA**, Subudhi AW, Fattor JA, Rock PB, Muza SR, Fulco CS, Braun B, Grediagin A, Mazzeo RS, Cymerman A, and Friedlander AL. Cytokine response at high altitude: effects of exercise and antioxidants at 4,300 m. *Medicine and Science in Sports and Exercise* 38: 276-285, 2006.

Jacobs KA, Krauss RM, Fattor JA, Horning MA, Friedlander AL, Bauer TA, Hagobian TA, Wolfel EE, and Brooks GA. Endurance training has little effect on active muscle fatty acid, lipoprotein cholesterol, or triglyceride net balances. *American Journal of Physiology - Endocrinology and Metabolism* 291: E656-E665, 2006.

Subudhi AW, **Jacobs KA**, Hagobian TA, Fattor JA, Muza SR, Fulco CS, Cymerman A, and Friedlander AL. Changes in ventilatory threshold at high altitude: effect of antioxidants. *Medicine and Science in Sports and Exercise* 38: 1425-1431, 2006.

Fattor JA, Miller BF, **Jacobs KA**, and Brooks GA. Catecholamine response is attenuated during moderate intensity exercise in response to the "lactate clamp". *American Journal of Physiology - Endocrinology and Metabolism* 288: E143-147, 2005.

Hsu AR, Hagobian TA, **Jacobs KA**, Attallah H, and Friedlander AL. Effects of heat removal through the hand on metabolism and performance during cycling in the heat. *Canadian Journal of Applied Physiology* 30: 87-104, 2005.

Jacobs KA, Casazza GA, Suh SH, Horning MA, and Brooks GA. Fatty acid re-esterification but not oxidation is increased by oral contraceptive use. *Journal of Applied Physiology* 98: 1720-1731, 2005.

Miller BF, Lindinger MI, Fattor JA, **Jacobs KA**, LeBlanc PJ, Duong M, Heigenhauser GJF, and Brooks GA. Hematological and acid-base changes in men during prolonged exercise with and without sodium-lactate infusion. *Journal of Applied Physiology* 98: 856-865, 2005.

Casazza GA, **Jacobs KA**, Suh SH, Miller BF, Horning MA, and Brooks GA. Menstrual cycle phase and oral contraceptive effects on triglyceride mobilization during exercise. *Journal of Applied Physiology* 97: 302-309, 2004.

Hagobian TA, **Jacobs KA**, Kiratli BJ, and Friedlander AL. Foot cooling reduces exercise-induced hyperthermia in men with spinal cord injury. *Medicine and Science in Sports and Exercise* 36: 411-417, 2004.

Jacobs KA, Paul DR, Geor RJ, Hinchcliff KW, Sams RA, and Sherman WM. Dietary composition influences short-term endurance training-induced adaptations of substrate partitioning during exercise. *International Journal of Sport Nutrition and Exercise Metabolism* 14: 38-61, 2004.

Subudhi AW, **Jacobs KA**, Hagobian TA, Fattor JA, Fulco CS, Muza SR, Rock PB, Hoffman AR, Cymerman A, and Friedlander AL. Antioxidant supplementation does not attenuate oxidative stress at high altitude. *Aviation, Space, and Environmental Medicine* 75: 881-888, 2004.

Paul DR, **Jacobs KA**, Geor RJ, Hinchcliff KW, and Lamb DR. No effect of pre-exercise meal on substrate metabolism and time trial performance during intense exercise. *International Journal of Sport Nutrition and Exercise Metabolism* 13: 489-503, 2003.

Miller BF, Fattor JA, **Jacobs KA**, Horning MA, Suh SH, Navazio F, and Brooks GA. Metabolic and cardiorespiratory responses to "the lactate clamp". *American Journal of Physiology - Endocrinology and Metabolism* 283: E889-E898, 2002.

Miller BF, Fattor JA, **Jacobs KA**, Horning MA, Navazio F, Lindinger MI, and Brooks GA. Lactate and glucose interactions during rest and exercise in men: effect of exogenous lactate infusion. *Journal of Physiology* 544: 963-975, 2002.

Paul DR, Mulroy SM, Horner JA, **Jacobs KA**, and Lamb DR. Carbohydrate-loading during the follicular phase of the menstrual cycle: effects on muscle glycogen and exercise performance. *International Journal of Sport Nutrition and Exercise Metabolism* 11: 430-442, 2001.

Jacobs KA, and Sherman WM. The efficacy of carbohydrate supplementation and chronic high-carbohydrate diets for improving endurance performance. *International Journal of Sport Nutrition* 9: 92-115, 1999.

Jacobs K, Nichols J, Holmes B, and Buono M. Isometric cervical extension strength of recreational and experienced cyclists. *Canadian Journal of Applied Physiology* 20:230-239, 1995.

Other Works, Publications, and Abstracts:

Technical Reports

Cymerman A, Friedlander AL, Muza SR, Hagobian TA, Subudhi AW, **Jacobs KA**, Stone K, Kambis KW, Grediagin A, Fulco CS, and Rock PB. Oculomotor and pupillary during

acclimatization to altitude (4300 m). (USARIEM Technical Report T-05/04). Natick, MA: U.S. Army Research Institute of Environmental Medicine, 2005.

Cymerman A, Muza SR, Ditzler D, Sharp M, Friedlander A, Hagobian T, Subudhi A, **Jacobs K**, Stone S, and Fulco C. Oculomotor and pupillary reflexes during acute exposure to hypobaric hypoxia. (USARIEM Technical Report T-03/04). Natick, MA: U.S. Army Research Institute of Environmental Medicine, 2003.

Hagan R, Bernhard R, **Jacobs K**, Farley J, Ramirez L, Feith S, and Hodgdon J. *Offensive fog water attack reduces firefighting time and heat strain during shipboard firefighting*. (NHRC Technical Report 96-22). San Diego, CA: Naval Health Research Center, 1996.

Hagan R, Huey K, **Jacobs K**, Bennett B, and Hodgdon J. *Core-control cooling system worn under firefighting ensemble increases heat exposure stay time*. (NHRC Technical Report 95-40). San Diego, CA: Naval Health Research Center, 1995.

Shannon M, Ramirez L, **Jacobs K**, Arnall D, Hagan R, and Hodgdon J. *Comparison of anti-exposure suits during rest and arm exercise in cold water*. (NHRC Technical Report 95-41). San Diego, CA: Naval Health Research Center, 1995.

Invited Symposium Slide Presentations from National and International Conferences

Jacobs KA. The plasticity of lipid metabolism at rest and during exercise: Implications for health and disease. *Korean Journal of Obesity* 23: 173, 2014.

Jacobs KA. Sildenafil citrate (Viagra) has little influence on cardiovascular hemodynamics, peak power, or time trial performance at simulated moderate or high altitudes. Part of the symposium entitled “Impact of sildenafil citrate (Viagra) on exercise capacity and sport (IPC)”. *Medicine and Science in Sports and Exercise* (Supplement), 44: 77, 2012. *

Jacobs KA. Worth the headache? The efficacy of phosphodiesterase-5 inhibitors at high altitude. Part of the highlighted symposium entitled “Into thin air: Optimizing exercise performance at high altitude”. *Medicine and Science in Sports and Exercise* (Supplement), 42: 27, 2010. *

Slide Presentation Abstracts from National Conferences

Kressler J, Stoutenberg M, Roos B, Friedlander AL, Perry AC, Signorile J, Viskochil R, **Jacobs KA.** Sildenafil does not improve peak exercise capacity during acute hypoxia in trained men or women. *Medicine and Science in Sports and Exercise* (Supplement), 42: S103, 2010. *

Kressler, J, Stoutenberg M, Roos B, Friedlander AL, Viskochil R, **Jacobs KA**. Sildenafil does not improve exercise performance during acute hypoxia in trained men or women. *Medicine and Science in Sports and Exercise* (Supplement), 41: S130, 2009. *

Jacobs KA, Burns P, Kressler J, and Nash MS. Spinal cord injury associated with maximal lipid oxidation that occurs at relatively low exercise intensities. *Medicine and Science in Sports and Exercise* (Supplement), 40: S4, 2008. *

Stoutenberg M, Kressler J, Chen GL, Perry AC, Myerburg RJ, Mendez A, Lewis JE, and **Jacobs KA**. Endurance training does not alter serum C-reactive protein concentrations in apparently healthy, inactive males. *Medicine and Science in Sports and Exercise* (Supplement), 40: S43, 2008. *

Jacobs KA, Fattor JA, Horning MA, Friedlander AL, Bauer T, Hagobian T, Wolfel EE, and Brooks GA. The error in the estimation of net leg total FFA balance from palmitate balance is small at rest and during exercise. *Medicine and Science in Sports and Exercise* (Supplement), 38: S47, 2006. *

Jacobs KA, Casazza GA, Suh SH, Horning MA, and Brooks GA. Menstrual cycle phase does not influence plasma free fatty acid flux during rest or exercise. *Medicine and Science in Sports and Exercise* (Supplement), 36: S143, 2004. *

Jacobs KA, Paul DR, Geor RJ, Hinchcliff KW, Sams RA, and Sherman WM. The influence of dietary composition on short-term aerobic training-induced adaptations of glucose kinetics. *Medicine and Science in Sports and Exercise* (Supplement), 33: S176, 2001. *

Jacobs KA, Leenders NYJM, and Sherman WM. Creatine (CR) supplementation and swimming. *Medicine and Science in Sports and Exercise* (Supplement), 30: S264, 1998. *

Poster Presentation Abstracts from National and Regional Conferences

McMillan DW, Nash MS, **Jacobs KA**. A series comparison of determinants of endogenous postprandial fat response in persons with and without spinal cord injury. American Spinal Injury Association Annual Scientific Meeting, 2021.

Cappelli L, Seeley AD, Sanborn C, Russo G, **Jacobs KA**. Effect of pedaling feedback on 20-km time trial gross efficiency and power output. *Medicine and Science in Sports and Exercise* (Supplement), 52, 2020.

McMillan DW, Maher JL, Bilzon JLJ, **Jacobs KA**, Nash MS. VO_2 -PO discordance in paraplegia; considerations for using power output to prescribe exercise at various intensities. *Medicine and Science in Sports and Exercise* (Supplement), 52, 2020.

McMillan DW, Maher JL, **Jacobs KA**, Bilzon JLJ, Nash MS. A case comparison of endogenous fat metabolism during a prandial challenge. American Spinal Injury Association Annual Scientific Meeting, 2020.

Seeley AD, Meng Y, Alvarado G, **Jacobs KA**. Serially-applied ischemic preconditioning mediation of cardiopulmonary compensations and oxygen kinetics during exercise at normobaric hypoxia. *Medicine and Science in Sports and Exercise* (Supplement), 52, 2020. *

Usuga D, McMillan DW, **Jacobs KA**, Nash MS, Valderrabano RJ. Associations of trabecular bone score and bone mineral density with cardiorespiratory fitness and body composition in men with and without paraplegia. *Journal of the Endocrine Society* (Supplement), 4, 2020.

Cheung CA, Seeley AD, Cruz N, Brenman JS, **Jacobs KA**. Acute fermented soy supplementation improves 20-km time trial performance through improvements in power and speed. *Medicine and Science in Sports and Exercise* (Supplement), 51, 2019. *

McMillan DW, **Jacobs KA**, Mendez AJ, Nash MS. A case comparison of the effect of spinal cord injury on postprandial fat metabolism following ingestion of a lipid tracer. Canadian Society for Exercise Physiology Annual Meeting, 2019.

McMillan DW, Maher JL, Bilzon JLJ, **Jacobs KA**, Nash MS. Exercise mode and intensity effect postprandial fat metabolism in persons with spinal cord injury. Paralyzed Veterans of America Annual Healthcare Summit, 2019.

McMillan DW, Maher J, Bilzon J, **Jacobs K**, Nash M. Effect of exercise mode and intensity on subsequent postprandial carbohydrate and fat metabolism in persons with spinal cord injury. *Medicine and Science in Sports and Exercise* (Supplement), 51, 2019. *

McMillan DW, Maher JL, **Jacobs KA**, Bilzon JLJ, Nash MS. Effect of exercise mode and intensity on subsequent postprandial carbohydrate and fat metabolism in persons with spinal cord injury. American Spinal Injury Association Annual Scientific Meeting, 2019. *

Roberson KB, Signorile J, Singer C, **Jacobs K**, Eltoukhy M, Ruta N, Mazzei N, Buskard A. Hemodynamic responses to an exercise stress test in Parkinson's disease patients without orthostatic hypotension. *Medicine and Science in Sports and Exercise* (Supplement), 51, 2019. *

Seeley AD, Cruz N, Brenman JS, **Jacobs KA**. Serial lower limb occlusion and reperfusion augments muscle oxygen saturation despite attenuated cardiac hemodynamics. *Medicine and Science in Sports and Exercise* (Supplement), 51, 2019. *

Flanagan CP, Smith WN, **Jacobs KA**, Kaplan LD. Post-operative lifestyle intervention and markers of physical and mental health. *Medicine and Science in Sports and Exercise* (Supplement), 50, 2018.

Seeley A, Brenman JS, **Jacobs KA**. Impact of remote ischemic preconditioning post-application delay on muscle oxygenation during subsequent cycling intervals. *Medicine and Science in Sports and Exercise* (Supplement), 50, 2018. *

Chowdhari S, Roberson K, Potiaumpai M, Widdowson K, Jaghab A, Armitage C, McGriff K, **Jacobs KA**, Signorile JF. Changes in cognition and power output in adults following high-velocity circuit resistance and treadmill training. *Medicine and Science in Sports and Exercise* (Supplement), 49, 2017.

Jimenez LQ, Arwari B, Perry AC, Signorile JF, Ahn S, Kamakawiwo'ole S, **Jacobs KA**. Moderate intensity exercise ameliorates negative impacts of simulated altitude on executive function. *Medicine and Science in Sports and Exercise* (Supplement), 49, 2017. *

Kamakawiwo'ole S, Jimenez LQ, Arwari B, Perry AC, Signorile JF, Ahn S, **Jacobs KA**. Auditory discrimination and short term memory are preserved during simulated altitude and moderate intensity exercise. *Medicine and Science in Sports and Exercise* (Supplement), 49, 2017. *

McMillan DW, Freeman D, Bellman M, **Jacobs K**, Nash MS. Energetic and hemodynamic response to electrical stimulation cycling in persons with paralysis. *Medicine and Science in Sports and Exercise* (Supplement), 49, 2017.

McMillan DW, Freeman D, Bellman M, **Jacobs K**, Nash MS. Energy expenditure and fuel homeostasis during and after bouts of FES cycling with different FES devices. American Spinal Injury Association 2017 Annual Meeting.

Potiaumpai M, Roberson K, Widdowson K, Chowdhari S, Jaghab A, Armitage C, McGriff K, **Jacobs KA**, Signorile JF. Changes in cardiometabolic risk factors after high-velocity circuit resistance or treadmill training in older adults. *Medicine and Science in Sports and Exercise* (Supplement), 49, 2017.

Roberson K, Potiaumpai M, Widdowson K, Jaghab A, Chowdhari S, Armitage C, McGriff K, **Jacobs KA**, Signorile JF. Hemodynamic changes following high-velocity circuit resistance or treadmill training in adults with cardiometabolic risk factors. *Medicine and Science in Sports and Exercise* (Supplement), 49, 2017. *

Harrington RF, Romero MA, Ordille A, **Jacobs KA**. Blood flow restriction fails to alter adiponectin response to an acute low-intensity resistance exercise session. *Medicine and Science in Sports and Exercise* (Supplement), 48, 2016.

Riquelme D, Perry A, Ugarriza D, **Jacobs K**, Gattmorta K, Arwari B. Effects of moderate-intensity aerobic exercise on cognition and arousal in extrovert-introvert personality types. *Medicine and Science in Sports and Exercise* (Supplement), 48, 2016.

Roberson KB, Signorile JF, **Jacobs KA**. Effect of varying loads and contraction speeds during circuit training on energy expenditure. *Medicine and Science in Sports and Exercise* (Supplement), 48, 2016. *

Cutrono SE, Lewis JE, Perry A, Signorile J, Tiozzo E, **Jacobs KA**. Effect of a community-based exercise program on inflammation and fitness among persons living with HIV/AIDS. *Medicine and Science in Sports and Exercise* (Supplement), 47, 2015. *

Jacobs KA, Hittinger EA, Maher JL, Nash MS, Perry AC, Signorile JF, Kressler J. Ischemic preconditioning does not improve peak exercise capacity at sea level or simulated high altitude. *Medicine and Science in Sports and Exercise* (Supplement), 47, 2015. *

Jacobs KA, Raeburn JM, Meneghini LF, Myers ND, Perry AC, Coblenz P, White J, Myers C. Maximal sprint does not alter exercise hemodynamics or fuel use in individuals with Type-1 diabetes. *Medicine and Science in Sports and Exercise* (Supplement), 46, 2014. *

Price AA, Musto AA, Ahn S, Perry AC, **Jacobs KA**. Effects of a translational education-based intervention on health habits and weight maintenance in college freshman. *Medicine and Science in Sports and Exercise* (Supplement), 46, 2014.

Raeburn JM, Meneghini LF, Myers ND, Perry AC, Coblenz P, White J, Myers C, **Jacobs KA**. Maximal sprints prevent hypoglycemia during exercise and not recovery in individuals with Type-1 diabetes. *Medicine and Science in Sports and Exercise* (Supplement), 46, 2014. *

Jacobs KA, Burns P, Kressler J, Nash MS. Ventilatory threshold does not coincide with maximal whole body fat oxidation rate in those with paraplegia. *Medicine and Science in Sports and Exercise* (Supplement), 45, 2013.

Raeburn JM, Hittinger EA, **Jacobs KA**. Variability of stroke volume and cardiac output measurements of a thoracic electrical bioimpedance device across test monitoring settings. *Medicine and Science in Sports and Exercise* (Supplement), 45, 2013.

Hittinger EA, Price A, Kressler J, **Jacobs KA**. Ischemic preconditioning does not improve cycling capacity at sea level or during acute normobaric hypoxia. *Medicine and Science in Sports and Exercise* (Supplement), 44: S540, 2012. *

Bedient AM, Lee SY, **Jacobs KA**, Asfour S, Roos B, Signorile JF. Comparisons of laboratory tests and simple clinical tests for identifying fallers among healthy older persons. *Medicine and Science in Sports and Exercise* (Supplement), 43: S491, 2011.

Jacobs KA, Burns P, Kressler J, Nash MS. Short-term circuit resistance training does not alter substrate use during exercise in those with paraplegia. *Medicine and Science in Sports and Exercise* (Supplement), 43: S562, 2011. *

Vance DD, Stoutenberg M, Chen G, Myerberg R, Tekin D, Nathanson L, **Jacobs K**, Clark J, Perry A, Raumpersaud E, Goldschmidt-Clermont P, Seo D. Increased eNos expression identified among marathon runners with increased VO2max. *Medicine and Science in Sports and Exercise* (Supplement), 43: S150, 2011. *

Lisman PJ, Signorile JF, Del Rossi G, Asfour S, Abdelrahman KZ, Eltoukhy M, Stambolian D, **Jacobs KA**. Cervical strength training does not enhance dynamic stabilization of head and neck during football tackling. *Medicine and Science in Sports and Exercise* (Supplement), 42: S479, 2010. *

Stoutenberg M, Kressler J, Roos B, Friedlander AL, Viskochil R, Signorile J, **Jacobs KA**. Sildenafil does not improve performance at simulated high or moderate altitudes in men or women. *Medicine and Science in Sports and Exercise* (Supplement), 42: S331, 2010. *

Viskochil R, Kressler J, Stoutenberg M, Roos B, Friedlander AL, Perry AC, Signorile J, **Jacobs KA**. Men and women exhibit similar declines in peak exercise capacity and performance at simulated altitudes. *Medicine and Science in Sports and Exercise* (Supplement), 42: S331, 2010.

Jacobs KA, Stoutenberg M, Kressler J, Roos B, Friedlander AL. Trained women demonstrate greater preservation of peak exercise capacity during acute hypoxia than trained men. *Medicine and Science in Sports and Exercise* (Supplement), 41: S374, 2009. *

Chen GL, Stoutenberg M, Kressler J, **Jacobs KA**, Perry AC, Myerburg RJ. Longitudinal changes in cardiac parameters and biomarkers associated with rapid half-marathon training in previously sedentary subjects. *Journal of the American College of Cardiology* (Supplement), 51: A287, 2008. *

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Miller BF, Fattor JA, **Jacobs KA**, Navazio F, and Brooks GA. Recovery of CO₂ with lactate infusion during rest and exercise – “The lactate clamp”. *Medicine and Science in Sports and Exercise* (Supplement), 34: S284, 2002. *

Miller BF, Fattor JA, **Jacobs KA**, Suh SH, and Brooks GA. Respiratory and metabolic effects of a lactate infusion during rest and exercise – “The lactate clamp”. Presented at the 2002 Southwest Regional Meeting of the American College of Sports Medicine. *

Paul DR, Mulroy SM, Horner JA, and **Jacobs KA**. Carbohydrate loading diets in women cyclists. *Medicine and Science in Sports and Exercise* (Supplement), 31: S194, 1999. *

Buckworth J, Cureton KJ, Convertino VA, **Jacobs K**, and Dishman RK. Orthostatic responses in women with parental hypertension: fitness and carotid baroreflex function. *Medicine and Science in Sports and Exercise* (Supplement), 29: S89, 1997.

Hagan RD, Bernhard RD, **Jacobs KA**, Cohen BS, and Hodgdon JA. Whole-body anti-exposure suits reduce heat loss during arm exercise and progressive immersion in cold water. *Medicine and Science in Sports and Exercise* (Supplement), 29: S95, 1997.

Jacobs K, Grindeland R, Bigbee A, Lauderdale M, Finch B, Azevedo J, and Linderman J. The effects of growth hormone and functional overload on soleus mass and oxidative capacity in hypophysectomized rats. *Medicine and Science in Sports and Exercise* (Supplement), 28: S62, 1996.

Shannon M, Ramirez L, **Jacobs K**, Arnall D, Hagan R, and Hodgdon J. Anti-exposure suits increase stay-time and reduce heat loss during rest/exercise cycles in cold water. *Medicine and Science in Sports and Exercise* (Supplement). 27: S153, 1995.

Jacobs K, Nichols J, Holmes B, and Buono M. Isometric cervical extension strength of recreational and experienced cyclists. *Medicine and Science in Sports and Exercise* (Supplement), 26: S75, 1994. *

* Designates abstracts published in or submitted to peer-reviewed journals

PROFESSIONAL

Funded Research Projects in Progress:

Postprandial fat metabolism following an acute exercise bout in persons with spinal cord injuries. The Craig H. Neilsen Foundation, July 2018-July 2020 (currently on a no-cost extension to July 2022). PI (Jacobs)/Co-I (Soyeon Ahn, David McMillan, Mark Nash). \$299,955.

Postprandial fat metabolism following an acute exercise bout in persons with spinal cord injuries. The Craig H. Neilsen Foundation, August 2020-July 2021 (currently on a no-cost extension to July 2022). COVID-19 extension and supplemental funds. PI (Jacobs)/Co-I (Soyeon Ahn, David McMillan, Mark Nash). \$34,968.

Funded Research Projects Completed:

The efficacy of ischemic preconditioning on leg blood flow and oxygen delivery during exercise at simulated high altitude. University of Miami, Provost Research Award, June 2018-May 2019. PI (Jacobs). \$16,998.

Obesity/overweight in persons with early and chronic SCI: A randomized, multicenter, controlled lifestyle intervention. U.S. Department of Defense, May 2010-May 2015. PI (Mark Nash)/Co-I (Jacobs). \$1,800,000.

Exercise treatment of obesity-related secondary conditions in adults with paraplegia. National Institute on Disability and Rehabilitation Research, September 2007-September 2010. PI (Mark Nash)/Co-I (Jacobs). \$596,253.

Can sildenafil improve exercise performance at moderate altitude? World Anti-Doping Agency, July 2007-July 2009. PI (Jacobs). \$173,968.

Effects of exercise on prandial lipemia and fat oxidation after tetraplegia. The Craig H. Neilsen Foundation, June 2007-June 2009. PI (Mark Nash)/Co-I (Jacobs). \$248,896.

Development of exercise training programs to improve lipid use and reduce the prevalence of obesity in the physically disabled. University of Miami James W. McLamore Summer Award, June 2007-August 2007. PI (Jacobs). \$9300.

The influence of triphasic oral contraceptives on body composition and time trial exercise performance. University of Miami General Research Support Award, June 2006-June 2007. PI (Jacobs). \$1000.

The influence of dietary composition on short-term aerobic training-induced adaptations in glucose kinetics. Oats Company, October 1998-October 1999. PI (W. Michael Sherman)/Co-I (Jacobs). \$12,220.

Editorial Responsibilities:

Exercise science Section Editor for *Measurement in Physical Education and Exercise Science* from August 2015-June 2018.

Ad hoc reviewer primarily for the following journals:

- *Archives in Physical Medicine and Rehabilitation*
- *Applied Physiology, Nutrition, and Metabolism*
- *European Journal of Sport Science*
- *International Journal of Sports Medicine*
- *Journal of Applied Physiology*
- *Medicine and Science in Sports and Exercise*
- *Sports Medicine*

Professional and Honorary Organizations: Member (since 1994) and Fellow (since 2015) of the American College of Sports Medicine.

Honors and Awards: Graduate Associate Research Award, The Ohio State University, 2000.

Postdoctoral Fellowships:

Completed a postdoctoral fellowship at the University of California, Berkeley in the Department of Integrative Biology and the laboratory of Dr. George Brooks and the laboratory of Dr. Anne Friedlander at the Palo Alto VA Health Care System from 2000-2004.

Other Professional Activities:

Invited to speak at the 11th Annual SCPMG Diabetes Symposium in Industry Hills, California on 11/29/05. Title of talk was “The Efficacy of Exercise in the Prevention and Treatment of Type 2 Diabetes Mellitus”.

TEACHING

Teaching Awards Received:

Graduate Teaching Award, The Ohio State University, 1999.

Outstanding Faculty Member nominee, University of Miami Apple Polishing Reception, 2013.

Teaching Specialization:

Undergraduate

KIN 321 – Introduction to Systemic Exercise Physiology

KIN 477 – Advanced Nutrition for Sports and Fitness

Graduate

KIN 679 – Principles of Exercise Prescription/Assessment: Cardiovascular

KIN 686 – Exercise Prescription/Assessment Laboratory

KIN 755 – Exercise Biochemistry

Teaching evaluations from the Fall 2004 to Fall 2020 (734 undergraduate and 454 graduate respondents) reveal that an average of 93 and 95% of undergraduate and graduate students, respectively, have strongly agreed or agreed to the statement “My overall evaluation of the instructor is positive”. An average of 91 and 93% of undergraduate and graduate students, respectively, have strongly agreed or agreed to the statement “The instructor presents the course material effectively”.

Redesigned KIN 686 and 746 to improve the practical application of the material presented. Developed KIN 755 as a course that combines theoretical and applied instruction in which students learn metabolic regulation as it relates to exercise as well as biochemistry laboratory techniques used to quantify blood metabolite concentrations.

Faculty Mentor Award Nomination:

Nominated for the University of Miami Faculty Mentor of the Year in Spring 2021.

Thesis and Dissertation Advising:

Masters Theses

Chairperson for four Masters theses:

- Matthew Romero, graduated Spring 2015
- Steven Hwang, graduated Spring 2009
- Marie Grunbeck, graduated Fall 2009
- Rich Viskochil, graduated Fall 2008

Doctoral Dissertations

Chairperson for 11 doctoral dissertations:

- David McMillan, graduated Summer 2020
“Postprandial fat metabolism following an acute exercise bout in persons with spinal cord injury”
- Afton Seeley, graduated Spring 2020
“Influence of serially-applied remote ischemic preconditioning on muscle blood flow and ventilatory compensations during exercise at normobaric hypoxia”
- Craig Flanagan, graduated Fall 2017 (Co-chair with Wes Smith, Ph.D.)

“Post-operative cardiometabolic effect of a behavioral intervention in patients undergoing partial meniscectomy”

- Laura Jimenez, graduated Fall 2016
“The combined effects of acute exposure to simulated altitude and moderate intensity aerobic exercise on measures of cognition”
- Stacy Cutrono, graduated Summer 2014
“The effect of a community-based exercise program on inflammation, metabolic risk, and fitness levels among persons living with HIV/AIDS”
- Jennifer Maher, graduated Fall 2013
“The effect of a 10-s maximal effort sprint performed prior to and immediately following moderate-intensity exercise on glucoregulation in individuals with Type I diabetes”
- Amanda Price, graduated Summer 2013
“The effect of a translational education-based intervention on health habits and weight maintenance in college freshmen”
- Liz Hittinger, graduated Summer 2012
“The effect of ischemic preconditioning of the lower limbs on peak cycling capacity, cardiovascular hemodynamics, arterial oxygen saturation, and EMG activity in male cyclists and triathletes at sea level and simulated high altitude”
- Pete Lisman, graduated Fall 2009
“Effects of a cervical resistance training program on the electromyographical and kinematic response of the head and neck to a standard football tackle”
- Jochen Kressler, graduated Summer 2009
“Sildenafil does not improve cardiovascular hemodynamics, peak power, or 15-km time trial performance at simulated moderate or high altitudes in men or women”, funded by World Anti-Doping Agency grant (Kevin A. Jacobs, Principal Investigator)
- Mark Stoutenberg, graduated Fall 2008
“Aerobic training does not alter CRP concentrations in apparently healthy, untrained men”, funded by \$125,000 from the Dean of the University of Miami Miller School of Medicine.

Committee member for 26 doctoral dissertations:

- Murat Kasli, expected to graduate in Spring 2022
“A deterministic gated lognormal response time model to identify examinees with item preknowledge”
- Keri Strand, expected to graduate in Spring 2022

“Ultrasound measurements of lower leg muscle quality and muscle stiffness in individuals with Parkinson’s disease”

- Carlina Velasquez, expected to graduate in Spring 2022
“The impact of body composition and central fat distribution on vascular markers of cardiac risk in a multiracial sample of premenopausal women”
- Nicholas Cherup, graduated in Spring 2021
“The impact of high-speed yoga on executive function, functional ability, and quality of life in individuals diagnosed with Parkinson’s disease”
- Joosung Kim, graduated in Spring 2021
“Neural excitability during single-leg balance in patients with an acute ankle sprain”
- Vanessa Lara, graduated Spring 2020
“Hypocaloric versus ad libitum diet on cardiometabolic markers and microbiota of overweight individuals performing intense exercise”
- Sung Eun Park, graduated Spring 2020
“A new approach for synthesizing study results from structural equation modeling”
- Andrew Buskard, graduated Spring 2019
“Optimal approach to load progressions during strength training in older adults: an intent-to-treat study”
- Jeonghoon Oh, graduated Spring 2019
“Prediction of hip joint moments and ground reaction forces in total hip arthroplasty patients using Kinect-driven musculoskeletal modeling”
- Yvette Figueroa, graduated Fall 2018
“The relationship between weekly total calorie carbohydrate intakes and strength and power during a training cycle in collegiate volleyball players”
- Emily White-Flanagan, graduated Spring 2018
“Endogenous and exogenous estrogens on skeletal muscle function and recovery”
- Anoop Balachandran, graduated Summer 2016
“Comparison of high-velocity training using plate-loaded pneumatic machines on strength, power, and physical function in older adults”
- Christopher Bailey, graduated Spring 2016
“The interactive effects of beta-alanine supplementation and resistance training on muscular endurance in older adults”
- Deborah Riquelme, graduated in 2015

“The effects of moderate-intensity exercise on cognition and arousal in extrovert and introvert personality types”

- Chantis Mantilla, graduated Summer 2014
“The effects of a wellness-based after-school program compared to traditional YMCA program on physical fitness, health-related, and executive cognitive function variables in minority elementary school children”
- Melissa Marcus, graduated Summer 2014
“The physiologic profile of competitive sport baton twirlers in comparison to competitive cheerleaders and modern dancers”
- Amos Cole Meyers, graduated Summer 2014
“Bicycle shoe insoles and their effect on foot excursion, leg muscle activation patterns, and performance in experienced cyclists”
- Yi-Tzu Kuo, graduated Fall 2011
“A comparison of body composition, high risk behaviors, eating and exercise habits in a tri-racial group of collegiate female athletes”
- Eduard Tiozzo, graduated Fall 2011
“The effect of combined moderate intensity training on immune functioning, metabolic variables, and quality of life in HIV-infected individuals receiving highly active antiretroviral therapy”
- Elizabeth Edwards, graduated Spring 2011
“Results from a pilot translational health and wellness based summer program in minority adolescents”
- Abigail Bedient, graduated Spring 2010
“A strategy utilizing simple clinical and laboratory tests to identify fallers among healthy independent-living older persons”
- Daniel Serravite, graduated Spring 2010
“Whole body periodic acceleration reduces levels of delayed onset muscle soreness after eccentric exercise”
- Kysha Harriell, graduated Spring 2010
“The menstrual cycle does not influence joint position sense, joint kinesthesia, or dynamic balance”
- Tony Musto, graduated Fall 2008
“Does a short-term pedometer assessed physical activity program reduce risk of dysmetabolic syndrome X?”
- Jason Youngman, graduated Fall 2007

“Risk for exercise addiction: a comparison of triathletes competing in sprint-, Olympic-, and Ironman-distance triathlons”

- Jessica Adams, graduated Spring 2007
“Optimal frequency, displacement, duration, and recovery patterns to maximize power output following acute whole-body vibration training”

SERVICE

University Committee and Administrative Responsibilities:

Administrative responsibilities

Associate Dean for Research	Fall 2018-present
Associate Department Chair	June 2017-August 2018
Graduate Program Director	June 2017-present
<ul style="list-style-type: none">• Clinical and Applied Exercise Physiology• Nutrition for Health and Human Performance• Strength and Conditioning/Fitness Entrepreneurship	
Graduate Program Coordinator	Fall 2008-Spring 2017
<ul style="list-style-type: none">• Clinical and Applied Exercise Physiology	
Interim Department Chair	Fall of 2010

Committee service

University of Miami	
<ul style="list-style-type: none">• Graduate Council	Fall 2015-2018
School of Education and Human Development	
<ul style="list-style-type: none">• Scholarship (Chair)• Research Policy• School Council	Fall 2011-2018 Fall 2009-2018 Fall 2007-Spring 2009

Search committee service

Search Committee Chair	
<ul style="list-style-type: none">• Senior Manager, Sponsored Programs• Lecturer, Nutrition for Health and Human Performance• Associate educator faculty, Neurokinesiology	Summer and Fall 2019 Fall 2017 Spring 2017

Search Committee Member

- Dean, School of Education and Human Development Spring 2018
- Assistant professor, Research and Measurement Evaluation Spring 2018
- Tenure track and clinical line searches, Higher Education Fall 2018-Spring 2019