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EDUCATION

Ph.D. (Exercise Physiology) 1995-1999.	The Ohio State University, Columbus, OH
M.A. (Exercise Science) 1993-1995.	East Tennessee State University, Johnson City, TN
B.P.E (Physical Education) 1988-1993.	Purdue University, West Lafayette, IN

PROFESSIONAL EXPERIENCE

Interim Department Chair 2020 – 2022	University of Idaho, Moscow, ID
Professor 2019 – present	University of Idaho, Moscow, ID
Associate Professor 2013 – 2019	University of Idaho, Moscow, ID
Assistant Professor 2007 – 2013	University of Idaho, Moscow, ID
Research Physiologist 2000 – 2007	US Department of Agriculture Beltsville Human Nutrition Research Center Diet and Human Performance Laboratory Beltsville, MD
Assistant Professor 1999 – 2000	University of Texas at El Paso, El Paso, TX

PUBLICATIONS

Merica, C.B., Egan, C.A., Webster, C.A., Mindrila, D., Goc Karp, G.G., **Paul, D.R.**, Orendorff, K.L. Association of Physical Educators' Socialization Experiences and Confidence with Respect to Comprehensive School Physical Activity Program Implementation. International Journal of Environmental Research and Public Health. Accepted September 2022.

- Laugero, K.D., **Paul, D.R.**, and Jahns, L. Energy intake and season interact to influence physiological stress load among midlife women. *Stress*. 2021 Jun 7;1-8.
- Liao, Y., Vakanski, A., Xian, M., **Paul, D.**, and Baker, R. A review of computational approaches for evaluation of rehabilitation exercises. *Comput Biol Med*. 2020 Apr;119:103687
- Williams, C., Vakanski, A., Lee, S., and **Paul, D.** Assessment of Physical Rehabilitation Movements through Dimensionality Reduction and Statistical Modeling. *Med Eng Phys*. 2019 Dec; 74: 13-22.
- Paul, D.R.**, Deng, Y., and Cook, P.S. Cross-Sectional and Longitudinal Analysis of the Active Commuting Behaviors of U.S. Department of the Interior Employees. *BMC Public Health*. 2019 May 8;19(1):526.
- Milling, C., Rachlow, J., Chappell, M., Camp, M., Johnson, T., Shipley, L., **Paul, D.**, Sorensen Forbey, J. Seasonal temperature acclimatization in a semi-fossorial mammal and the role of burrows as thermal refugia. *PeerJ*. 2018;6:e4511.
- Deng, Y., **Paul, D.R.** The relationships between depressive symptoms, functional health status, physical activity and the availability of recreational facilities: a rural-urban comparison in middle-aged and older Chinese adults. *Int J Behav Med*. 2018 Jun;25(3):322-330.
- Vakanski, A., Jun, H., **Paul, D.**, Baker, R. A data set of human body movements for physical therapy exercises. *Data (Basel)*. 2018 Mar; 3(1).
- Paul D.R.**, McGrath, R., Vella, C.A., Kramer, M., Baer, D.J., Moshfegh, A.J. Understanding the nature of measurement error when estimating energy expenditure and physical activity via physical activity recall. *J Phys Act Health*. 2018 Jul 1;15(7):543-549.
- McGrath, R.P., Vella, C.A., Scruggs, P.W., Williams, C.J., Peterson, M.D., Vincent, B.M., **Paul, D.R.** The impact of low accelerometer wear time on the estimates and application of sedentary behavior and physical activity data in adults. *J Phys Act Health*. 2017 Dec 1;14(12):919-924.
- Lowry, M.B., McGrath, R.P., Scruggs, P.W., **Paul, D.R.** Practitioner survey and measurement error in manual bicycle and pedestrian count programs involving community-volunteers. *IJST*. 2016;10(8):720-729.
- Paul, D.R.**, Kramer, M., Rumpler, W.V., Stote, K.S., Clevidence, B.A., and Baer, D.J. Determinants of variance in habitual total and moderate-to-vigorous physical activity in overweight adults. *J Phys Act Health*. 2015 May;12(5): 680-5.
- Baer, D.J., Stote, K.S., Henderson, T., **Paul, D.R.**, Okuma, K., Tagami, H., Kanahori, S., Gordon, D.T., Rumpler, W.V., Ukhanova, M., Culpepper, T., Wang, X., and Mai, V. Metabolizable energy value of resistant maltodextrin in diets consumed by adult men is variable

and consistent with other fiber sources and resistant maltodextrin consumption alters fecal microbiota composition. *J Nutr.* 2014 Jul;144(7):1023-9.

Green, A.N., McGrath, R.P., Martinez, V., Taylor, K., **Paul, D.R.**, and Vella, C.A. Associations of objectively-measured sedentary behavior, light activity, and markers of cardiometabolic health in young women. *Eur J Appl Physiol.* 2014 May;114(5):907-19.

Paul, D.R., Scruggs, P.W., Goc Karp, G., Ransdell, L.B., Robinson, C., Lester, M.J., Gao, Y., Jones-Petranek, L., Brown, H.B., and Shimon, J. Developing a statewide childhood body mass index surveillance program. *J Sch Health.* 2014 Oct;84(10):661-7.

Vella, C.A., **Paul, D.R.**, and Bader, J. Cardiac response to submaximal and maximal exercise in normal-weight and obese, Hispanic men and women: Implications for exercise prescription. *Acta Physiol.* 2012;205:113-123.

Baer, D.J., Stote, K.S., **Paul, D.R.**, Harris, G.K., Rumpler, W.V., and Clevidence, B.A. Whey protein but not soy protein supplementation alters body weight and composition in free-living overweight and obese adults. *J Nutr.* 2011;141(8):1489-94

Alkurdi, W., **Paul, D.R.**, Sadowski, K., and Dolny, D.D. The effect of water depth on energy expenditure and perception of effort while walking in female subjects. *IJARE.* 2010;4:49-60.

Paul, D.R., Kramer, M., Moshfegh, A.J., Baer, D.J., and Rumpler, W.V. Estimates of adherence and error analysis of physical activity data collected via accelerometry in a large study of free-living adults. *BMC Med Res Methodol.* 2008;8(1):38-47.

Moshfegh, A.J., Rhodes, D.G., Baer, D.J., Murayi, T., Clemens, J.C., Rumpler, W.V., **Paul, D.R.**, Sebastian, R.S., Kuczynski, K.J., Ingwersen, L.A., Staples, R., and Cleveland, L.E. The US Department of Agriculture Automated Multiple-Pass Method reduces bias in the collection of energy intakes. *Am J Clin Nutr.* 2008;88:324-32.

Rumpler, W.V., Kramer, M., Rhodes, D.G., Moshfegh, A.J., and **Paul, D.R.** Identifying sources of reporting error using measured food intake. *Eur J Clin Nutr.* 2008;62(4):544-52.

Paul D.R., Kramer M., Moshfegh, A.J., Baer, D.J., and Rumpler, W.V. Comparison of two different physical activity monitors. *BMC Med Res Methodol.* 2007;7(1):26-31.

Stote, K.S., Baer, D.J., Spears, K., **Paul, D.R.**, Harris, G.K., Rumpler, W.V., Strycula, P., Najjar, S.S., Ferrucci, L., Ingram, D.K., Longo, D.L., and Mattson, M.P. A controlled trial of reduced meal frequency without caloric restriction in healthy, normal-weight, middle-aged adults. *Am J Clin Nutr.* 2007;85(4):981-8.

Rumpler, W.V., Kramer, M., Rhodes, D.G., and **Paul, D.R.** The impact of the covert manipulation of macronutrient intake on energy intake and the variability in daily food intake in nonobese men. *Int J Obes* 2006;30(5):774-81.

Paul, D.R., Rhodes, D.G., Kramer, M., Baer, D.J., and Rumpler, W.V. Validation of a food frequency questionnaire by direct measurement of habitual ad libitum food intake. *Am J Epidemiol.* 2005;162(8):806-14.

Paul, D.R., Kramer, M., Rhodes, D.G., and Rumpler, W.V. Preprandial ghrelin is not affected by macronutrient intake, energy intake or energy expenditure. *J Negat Results Biomed.* 4:2, 2005.

Paul, D.R., Novotny, J.A., and Rumpler, W.V. Effects of the interaction of sex and food intake on the relation between energy expenditure and body composition. *Am J Clin Nutr.* 2004;79(3):385-9.

Jacobs, K.A., **Paul, D.R.**, Geor, R.J., Hinchcliff, K.W., and Sherman, W.M. Dietary composition influences short-term endurance training-induced adaptations of substrate partitioning during exercise. *Int J Sport Nutr Exerc Metab.* 2004;14(1):38-61.

Davies, M.J., Judd, J.T., Baer, D.J., Clevidence, B., **Paul, D.R.**, Wiseman, S., Muesing, R., and Chen, S.C. Black tea consumption reduces total and LDL cholesterol in mildly hypercholesterolemic adults. *J Nutr.* 2003;133(10):3298S-3302S.

Paul, D., Jacobs, K.A., Geor, R. and Hinchcliff, K. No effect of pre-exercise meal on substrate metabolism and time trial performance during intense endurance exercise. *Int J Sport Nutr Exerc Metab.* 2003;13(4):489-503.

Paul, D.R., Mulroy, S.M., Horner, J.A., Jacobs, K.A., and Lamb, D.R. Carbohydrate-loading during the follicular phase of the menstrual cycle: effects on muscle glycogen and exercise performance. *Int J Sport Nutr Exerc Metab.* 2001;11(4):430-41.

PUBLISHED ABSTRACTS and PRESENTATIONS

Merica, C.B., Egan, C.A., Rose, S., Martin, A., **Paul, D.R.**, Vella, C.A. Developing a fitness surveillance system: teachers experiences with training and implementation. SHAPE America Conference, New Orleans, LA, 2022.

Egan, C.A., Merica, C.B., Rose, S., Martin, A., Vella, C.A., **Paul, D.R.** Establishing a rural youth fitness surveillance system: a pilot study. SHAPE America Conference, New Orleans, LA, 2022.

Egan, C.A., Merica, C.B., Rose, S., Martin, A., Vella, C.A., **Paul, D.R.** Development of a fitness surveillance system to track and evaluate obesity. MW CTR-IN Virtual Annual Meeting, Moscow, ID, 2022.

Vakanski, A., Lee, S., **Paul, D.**, Baker, R., Jun, H. Modeling and Evaluation of Physical Therapy Movements using Machine Learning. CMCI Annual Science Expo, Moscow, ID, April 2019.

Milling, C.R., Rachlow, J.L., Chappell, M.A., Camp, M.J., Johnson, T.R., Shipley, L.A., **Paul, D.R.**, Forbey, J.S. Seasonal temperature acclimatization in pygmy rabbits and the role of

burrows as thermal refugia. American Society of Mammalogists Annual Meeting, Moscow, ID, June 2017.

Paul, D.R., Vincent, B.M., Vella, C.A., Scruggs, P.W., and McGrath, R.P. Data imputation improves sedentary behavior and physical activity estimates in low wear time accelerometer data. American College of Sports Medicine Conference, Denver, CO, June 2017.

Deng, Y., Vella, C.A., **Paul, D.R.** Longitudinal association between screen time and clustered metabolic risk factors from adolescence to young adulthood. American College of Sports Medicine Conference, Denver, CO, June 2017.

Son, J., Mahoney, J., Kern, A., **Paul, D.** Indigenous Knowledge Active-STEM”: Promoting Culturally Relevant, Physically Active STEM Learning and Youth Development in Pre-High School Coeur d’Alene Tribal Students. Hawaii International Conference on Education, Honolulu, HI. January 2017.

Mahoney, J., Son, J., Kern, A., **Paul, D.** Families in Four Seasons year number two: building capacity for self-sustaining and culturally-integrated HAL and STEM. American Indigenous Research Association, Pablo, MT, October 2016.

McGrath, R.P., Vella, C.A., Scruggs, P.W., Williams, C.J., Peterson, M.D., Vincent, B.M, **Paul, D.R.** Low accelerometer wear time adherence underestimates sedentary behavior and physical activity. American College of Sports Medicine Conference, Boston, MA, June 2016.

Mahoney, J., Son, J., Kern, A., **Paul, D.** Families in Four Seasons: building capacity for self-sustaining and culturally-integrated HAL and STEM. American Indigenous Research Association, Pablo, MT. October 2015.

Paul, D.R., Lowry, M.B., Scruggs, P.W., McGrath, R.P. Current state of practice and measurement error in manual community bicycle and pedestrian count programs. American College of Sports Medicine Conference, San Diego, CA, June 2015.

McGrath, R.P., Vella, C.A., Scruggs, P.W., Williams, C.J., **Paul, D.R.** Low accelerometer adherence negatively impacts the estimates and application of physical activity data. American College of Sports Medicine Conference, San Diego, CA, June 2015.

Lowry, M.B., McGrath, R.P., Scruggs, P.W., **Paul, D.R.** Community-volunteer bicycle and pedestrian count programs: an assessment of counting error and the implications for practice. Active Living Research Conference, San Diego, CA. February 2015.

McGrath, R.P., Vella, C.A., Scruggs, P.W., Williams, C.J., **Paul, D.R.** Estimates and application of physical activity data are negatively impacted by low accelerometer adherence. American College of Sports Medicine Northwest Conference, Bend, OR, February 2015.

Mahoney, J., Son, J., Kern, A., **Paul, D.** Families in Four Seasons: building capacity for self-sustaining and culturally-integrated HAL and STEM. American Indigenous Research

Association, Pablo, MT. October 2014.

Vella, C.A, Martinez, V., Taylor, K., Green, A.N., McGrath, R.M., **Paul, D.R.** Cardiorespiratory fitness mediates the associations between sedentary behavior and markers of cardiometabolic health in women. American College of Sports Medicine Conference, Orlando, FL, May 2014.

Taylor, K., **Paul, D.R.**, Martin, A.K., Beitey, S.P., Croston, S.L., Goc Karp, G., Vella, C.A., Rosslerova, D., Young, K.J., Drake, E.M., Scruggs, P.W. Physical activity measurement validity of motion sensor technologies in laboratory settings. American College of Sports Medicine Conference, Orlando, FL, May 2014.

Scruggs, P.W., **Paul, D.R.**, Goc Karp, G., Brown, H., Vella, C.A., Davis, C.A., Jensen, K. Surveillance of physical education physical activity in Idaho. American College of Sports Medicine Conference, Orlando, FL, May 2014.

Paul, D.R., Cook, P.S., Hollenhorst, S.J., and Lowry, M.B. Factors influencing the active commuting behaviors of U.S. Department of the Interior employees. American Public Health Association Conference, Boston, MA, November 2013.

Scruggs, P.W., **Paul, D.R.**, Goc Karp, G., Brown, H., Vella, C.A., Davis, C.A., Jensen, K. Statewide surveillance of physical education physical activity in Idaho. Idaho Association for Health, Physical Education, Recreation & Dance Conference, Moscow, ID. October, 2013.

Scruggs, P.W., Goc Karp, G., Brown, H.F., Davis, C.A., Shimon, J.A., Robinson, C., Lester, M.J., **Paul, D.R.**, Gibson, T.A., Ransdell, L.B., Vella, C.A., Browder, K.R., and Fitzpatrick, J.M.. Idaho physical education: quality & quantity surveillance data, 2009 & 2011. American Alliance for Health, Physical Education, Recreation and Dance National Convention, Charlotte, NC, April 2013.

Green, A.N., **Paul, D.R.**, McGrath, R.P., Martinez, V., Taylor, K., and Vella, C.A. Sedentary behavior, central obesity and cardiovascular disease risk factors in young women. American College of Sports Medicine Conference, Indianapolis, IN, May 2013.

McGrath, R.P., Moshfegh, A.J., Kramer, M., Rumpler, W.V., Baer, D.J., Vella, C.A., Scruggs, P.W., and **Paul, D.R.** Prediction of total energy expenditure and moderate-to-vigorous physical activity by the NHANES PAQ. American College of Sports Medicine Conference, Indianapolis, IN, May 2013.

McGrath, R.P., Moshfegh, A.J., Kramer, M., Rumpler, W.V., Baer, D.J., Vella, C.A., Scruggs, P.W., and **Paul, D.R.** Prediction of total energy expenditure and moderate-to-vigorous physical activity by the NHANES PAQ. Northwest American College of Sports Medicine Conference, Salem, OR, March 2013.

Croschere, T.M., **Paul, D.**, and Seegmiller, J.G. Incidence and Severity of Musculoskeletal Injuries in Rural Overweight and Obese Pediatrics in Idaho. Western Student Medical Research Forum. Carmel, CA, January 2013.

Croschere, T., **Paul, D.**, Seegmiller, J. Incidence and severity of musculoskeletal injuries in rural overweight and obese pediatric patients. Idaho INBRE Conference, Moscow, ID, August 2012.

Paul, D.R., Kramer, M., Rumpler, W.V., Stote, K.S., Clevidence, B.A., Harris, G.K., and Baer, D.J. Determinants of variance in habitual total and moderate-to-vigorous physical activity in overweight adults. American College of Sports Medicine Conference, San Francisco, CA, May 2012.

Scruggs, P.W., Goc Karp, G., Brown, H., **Paul, D.**, Vella, C.A., and Davis, C. Physical Education Physical Activity: Policy and Assessment. NASPE Conference on Physical Education Teacher Education, Las Vegas, NV, October, 2012.

Scruggs, P.W., Goc Karp, G., **Paul, D.**, Vella, C.A, Davis, C., Boise State University, Lewis Clark State College, Idaho State University. Statewide Surveillance of Physical Education Quality and Quantity in Idaho. Annual meeting for Idaho Association for Health, Physical Education, Recreation, & Dance in Pocatello, ID., October, 2011.

Alkurdi, W., **Paul, D.R.**, and Dolny, D. The oxygen consumption (VO₂)-heart rate (HR) relationship of walking on land versus shallow water at various depths. American College of Sports Medicine Conference, Denver, CO, May 2011.

Alkurdi, W., **Paul, D.R.**, and Dolny, D. The oxygen consumption (VO₂)-heart rate (HR) relationship of walking on land versus shallow water at various depths. Northwest American College of Sports Medicine Conference, Eugene, OR, April 2011.

Goc Karp, G., Scruggs, P.W., **Paul, D. R.**, Brown, H. B., Shimon, J., Robinson, C., Ransdell, L. B., Lester, M., Gibson, T.A., and Fitzpatrick, J. Idaho Physical Education Quality & Quantity Surveillance for Program and Policy Change. American Alliance for Health, Physical Education, Recreation, and Dance Conference, San Diego, CA, March 2011.

Paul, D.R., Scruggs, P.W., Goc Karp, G., Ransdell, L.B., Robinson, C., Lester, M., Brown, H.B., Gibson, T.A., Shimon, J., Johnson, T., Jones-Petranek, L., Fitzpatrick, J., Browder, K., and Sahin, Z. Body mass index prevalence estimates of a statewide monitoring initiative in Idaho. American Public Health Association Conference, Denver, CO, November 2010.

Shawley, J., Roach, K., Steinbis, A., Van Mullem, H., Faure, C., DeMers, R., Goc Karp, G., Scruggs, P.W., and **Paul, D.R.** "Moving PE Forward in Idaho, Using State Data to Drive Policy and Program Planning". Idaho Association of Health, Physical Education, Recreation, and Dance Conference, Boise, ID, October 2010.

Loch, K., Seegmiller, J.G., Shoebridge, N., Hansen, B., Scruggs, P.W., **Paul, D.R.**, Seegmiller, J.A. Diet Recall and Biomechanical Bone Markers Among 7-12 Year Old. Poster presented at the 9th Annual Idaho INBRE IDeA Network of Biomedical Research Excellence Research Conference, Poster presentation and abstract, Moscow, ID, August 2010

Paul, D.R. and Scruggs, P.W. Comparison of evaluation methods in physical activity. First International Congress on Children and Sports, Near East University, Nicosia, N. Cyprus. April 2010.

Seegmiller, J., Shoebridge, N., Hansen, B., Scruggs, P., **Paul, D.**, and Seegmiller, J. Pre and Post Intervention Measures of Bone Strength Among 7-12 Year Old Girls. American College of Sports Medicine Conference, Baltimore, MD, May 2010.

Alkurdi, W., **Paul, D.R.**, Sadowski, K., and Dolny, D. Effect of water depth on energy expenditure and perception of effort while walking in females. American College of Sports Medicine Conference, Baltimore, MD, May 2010.

Alkurdi, W., **Paul, D.R.**, Sadowski, K., and Dolny, D. Effect of water depth on energy expenditure and perception of effort while walking in females. American College of Sports Medicine Conference, Portland, OR, March 2010.

Paul D.R., Kramer M., Moshfegh, A.J., Baer, D.J., and Rumpler, W.V. Physical activity measured by accelerometer predicts body composition in free-living adults. American Public Health Association Conference, Philadelphia, PA, November 2009.

Measurement teams from the University of Idaho (Goc Karp, G., **Paul, D.R.**, Scruggs, P.W., Brown, H., and Browder, K.D.), Boise State University, Lewis and Clark State College, and Idaho State University. Physical education and weight status in Idaho. Idaho Association of Health, Physical Education, Recreation and Dance Conference, Moscow, ID, October 2009.

Paul, D.R., Goc Karp, G., and Brown, H.B. Healthy kids, healthy communities. Communities and Schools Getting Better Together: A Workshop on Rural Education. Worley, ID, May 2009.

Baer, D.J., Mai, V., Okuma, K, Tagami, H, Kanahori, S., Henderson, T., Stote, K.S., **Paul, D.R.**, Gordon, D.T., and Rumpler, W.V. Metabolizable energy value of resistant maltodextrin. Federation of American Societies for Experimental Biology Conference, New Orleans, LA, April 2009.

Courville, A., Stote, K.S., Rumpler, W.V., **Paul, D.R.**, Leger, A., Novotny, J., and Baer, D.J. Effect of protein sources on glucose and insulin response. Federation of American Societies for Experimental Biology Conference, New Orleans, LA, April 2009.

Stote, K.S., Courville, A., Harris, G.K., **Paul, D.R.**, Rumpler, W.V., Clevidence, B.A., and Baer, D.J. Effect of oolong tea, oolong tea polyphenols and oolong tea catechins on glucoregulatory control in overweight and obese men. Federation of American Societies for Experimental Biology Conference, New Orleans, LA, April 2009.

Hollenhorst, S., Drown, S., Laumatia, L., Pinel, S., and **Paul, D.R.** The Building Sustainable Communities Initiative: A New University and Community Partnership. Idaho Sustainability Summit, Boise, ID, November 2008.

Cooper, K.H, Olsen, L.K., **Paul, D.R.**, and Jaworski, R. Inactivity and Obesity -a National Epidemic in Adults and Children. American Public Health Association Meeting, San Diego, CA, October 2008.

Dolny, D.D., **Paul, D.R.**, Alkurdi, W., and Sadowski, K. Comparison of Land Versus Water Walking on Acute Metabolic, Cardiovascular, Affective Domain and Physical Activity Patterns in Overweight Versus Normal Weight Adults. World Aquatic Health Conference, Colorado Springs, CO, October 2008.

Paul, D.R., Rhodes, D.G., and Rumpler, W.V. Interactions between chronic and acute macronutrient composition on 24-hr substrate oxidation. Federation of American Societies for Experimental Biology Conference. Washington, DC, April 2007.

Rumpler, W.V., Kramer, M., Rhodes, D.G., Moshfegh, A.J., and **Paul, D.R.** Decomposition of reporting error based on measured food intake. Federation of American Societies for Experimental Biology Conference. Washington, DC, April 2007.

Harris, G.K., Stote, K.S., Clevidence, B.A., **Paul, D.R.**, Kramer, M., and Baer, D.J. BodPod approximates corrected DEXA values more closely than BIA in overweight and obese adults. Federation of American Societies for Experimental Biology Conference. Washington, DC, April 2007.

Stote, K.S., Clevidence, B.A., Harris, G.K., **Paul, D.R.**, Rumpler, W.V., and Baer, D.J. Whey protein suppresses plasma ghrelin concentrations in overweight and obese men and women. NAASO, The Obesity Society 2006 Annual Scientific Meeting, Boston, MA October 2006.

Paul, D.R., Kramer, M., Rumpler, W.V., Stote, K.S., Clevidence, B.A., Harris, G.K., and Baer, D.J. Variability in the physical activity of free-living adults. Federation of American Societies for Experimental Biology Conference. San Francisco, CA, April 2006.

Baer, D.J., Stote, K.S., Clevidence, B.A., Harris, G.K., **Paul, D.R.**, and Rumpler, W.V. Whey protein decreases body weight and fat in supplemented overweight and obese adults. Federation of American Societies for Experimental Biology Conference. San Francisco, CA, April 2006.

Paul, D.R., Kramer, M., Moshfegh, A.J., Baer, D.J., and Rumpler, W.V. Improving acceptability criteria for epidemiological physical activity monitor data. Federation of American Societies for Experimental Biology Conference. San Diego, CA, April 2005.

Paul, D.R., Kramer, M., Moshfegh, A.J., Baer, D.J., and Rumpler, W.V. Comparison of two different physical activity monitors. Federation of American Societies for Experimental Biology Conference. San Diego, CA, April 2005.

Paul, D.R., Kramer, M., Moshfegh, A.J., Baer, D.J., and Rumpler, W.V. Improving acceptability criteria for epidemiological physical activity monitor data. "Objective Monitoring of Physical Activity: Closing gaps in the science of accelerometry". Chapel Hill, NC, December 2004.

Paul, D.R., Kramer, M., Rhodes, D.G., and Rumpler, W.V. Macronutrient intake has no effect on preprandial ghrelin: energy intake is influenced by the interaction between ghrelin and energy expenditure. Federation of American Societies for Experimental Biology Conference. Washington, DC, April 2004.

Rumpler, W.V, Rhodes, D.G., and **Paul, D.R.** Voluntary food intake and substrate balance in man. Federation of American Societies for Experimental Biology Conference. San Diego, CA, April 2003.

Moshfegh, A.J., Baer, D.J., Cleveland, L.E., Rhodes, D.G., Sebastian, R.S., Staples, R.C., Kuczynski, K.J., **Paul, D.R.**, Clemens, J.C., Rumpler, W.V., and Judd, J.T. Validation of reported energy intakes in 24-hour dietary recalls using USDA automated multi-pass method. Federation of American Societies for Experimental Biology Conference. San Diego, CA, April 2003.

Paul, D.R., Mulroy, S.M., Horner, J.A., Jacobs, K.A., and Lamb, D.R. Can women benefit from carbohydrate-loading diets? American College of Sports Medicine Conference. Seattle, WA, May 1999.

Paul, D.R., Mulroy, S.M., Horner, J.A., Jacobs, K.A., and Lamb, D.R. Can women benefit from carbohydrate-loading diets? Limits of Human Performance: An Intensive Course. Olympia, Greece, May 1997.

Paul, D.R., J. Blevins, T. Edwards, D. Schott, and C.E. Broeder. Does resistance training intensity affect post-exercise thermogenic responses? Southeast American College of Sports Medicine Conference. Chattanooga, TN, March 1995.

GRANTS IN REVIEW

GRANTS FUNDED

Paul, D.R. (PI). “Families in Four Seasons: Building Capacity for Self-Sustaining and Culturally Integrated HAL and STEM”. Coeur d’Alene Tribe. February 2022.

Egan, C. (PI). “Development of a fitness surveillance system to track and evaluate obesity prevention efforts in Idaho youth”. MW CTR-IN Program Pilot Grant. October 2020.

Paul, D.R. (PI). “Families in Four Seasons: Building Capacity for Self-Sustaining and Culturally Integrated HAL and STEM”. Coeur d’Alene Tribe. June 2019.

Paul, D.R. (PI). “Families in Four Seasons: Building Capacity for Self-Sustaining and Culturally Integrated HAL and STEM”. Coeur d’Alene Tribe. June 2018.

Vakanski, A. (PI). “Modeling and Evaluation of Physical Therapy Movements using Machine Learning”. National Institutes of Health (P20), Center for Modeling Complex Interactions. 2017.

Paul, D.R. (PI). “Families in Four Seasons: Building Capacity for Self-Sustaining and Culturally Integrated HAL and STEM”. Coeur d’Alene Tribe. 2015.

Paul, D.R. (PI). “Families in Four Seasons: Building Capacity for Self-Sustaining and Culturally Integrated HAL and STEM”. University of Idaho College of Education Faculty Funding Awards. 2014.

Scruggs, P.W. (PI). “Physical activity measurement validity of motion sensor technologies in laboratory and field settings”. Doceõ Center for Innovation and Learning. 2013.

Brown, H. (PI). “HEAL- Healthy Eating and Active Living”. Blue Cross of Idaho, Foundation for Health, Inc. 2012.

McGrath, R.P. (PI). “Get fit and get green”. University of Idaho Sustainability Center Grant. 2012.

Vella, C.A. (PI). "Physical inactivity, inflammation, and metabolic syndrome risk factors in young women". University of Idaho Seed Grant. 2011.

Scruggs, P. W. (PI). "Statewide surveillance of physical education quantity and quality in Idaho". Idaho State Department of Education. 2011.

Croschere, T., Paul, D., Seegmiller, J. Incidence and severity of musculoskeletal injuries in rural overweight and obese pediatric patients. INBRE Summer Research Fellow Program. 2012. \$8,000.00.

Goc Karp, G. (PI). “Statewide assessment of BMI and physical activity policy, curricula and behavior in Idaho K-12 Schools”, Idaho Association of Health, Physical Education, Recreation, and Dance. 2009.

Page, S.L. (PI). “Improving the health and educational outcomes of young people”. Centers for Disease Control and Prevention. 2008.

Seegmiller, J.G. (PI). “Pre and Post Intervention Measures of Bone Strength Among 7-12 Year Old Girls”. University of Washington Institute of Translational Health Sciences. \$14,000.00. 2008.

Pinel, S.L. (PI). “Greening of the curriculum”. University of Idaho Sustainable Idaho Initiative. 2008.

Paul, D.R. (PI). “Mapping Obesity: Utilizing GIS to distinguish environmental factors contributing to obesity in school-aged children”, Northwest Academic Computing Consortium. 2008.

Baer, D.J. (PI). “Energy value of resistant maltodextrin”, Matsutani Chemical Co. Ltd. 2007.

Baer, D.J. (PI). "Effect of why protein on body weight, body fat and health indices". US Whey Protein Research Consortium. 2005.

Baer, D.J. (PI). "Meal frequency and health indicators". National Institutes on Aging. 2005.

Moshfegh, A.J. (PI). "Repeatability of energy expenditure study using doubly-labeled water". US Department of Agriculture. 2004.

Moshfegh, A.J. (PI). "USDA Automated Multiple Pass 24-Hour Dietary Recall validation study". US Department of Agriculture. 2002.

Judd, J.T. (PI). "Dietary antioxidants in black tea and effects on plasma oxidized LDL, lipid peroxides and markers of *in vivo* oxidative status and inflammation". Lipton Tea. 2003.

Rumpler, W.V. (PI). "The impact of the covert manipulation of macronutrient intake on the variability in daily food intake in non-obese men". US Department of Agriculture. 2001.

Paul, D.R. (PI). "Carbohydrate oxidation during high-intensity exercise after a fat-rich meal", The Ohio State University Graduate School Research Award. 1999.

Paul, D.R. (PI). "Carbohydrate oxidation during high-intensity exercise after a fat-rich meal". Gatorade Sports Science Institute. 1998.

Lamb, D.R. (PI). "Glutamine supplementation: effects on metabolism, gut permeability, and exercise performance". Gatorade Sports Science Institute. 1996.

GRANTS NOT FUNDED

Vakanski, A (PI). A system for assessment of patient performance in physical rehabilitation (NSF 18-541). National Science Foundation. Role: Co-PI.

Paul, D.R. (PI). "Active in All Seasons". Spencer Foundation. November, 2017.

Paul, D.R. (PI). "Families in Four Seasons: Building Capacity for Self-Sustaining and Culturally Integrated HAL and STEM". Coeur d'Alene Tribe. October 2016.

Meyer, C. (PI). "Hnya'(pqin'n (The Gathering Place)". National Science Foundation, December 2016. **Paul, D.R. (PI)** of UI subcontract.

Meyer, C. (PI). "Hnya'(pqin'n (The Gathering Place)". National Science Foundation, December 2015.

Vella, C.A. (PI). Effects of exercise intensity on inflammation and CVD risk in young women. National Institutes of Health. First revision, October 2012.

Hendrickx, M. (PI): Coeur d'Alene Tribe Public Prevention Health Fund: Community Transformation Grant. DP1103PPHF11. 2011. (Recommended for funding, but not funded).

Scruggs, P. W. (PI). Creating Healthy Interventions for Lifelong Learning Afterschool. National Institute of Food and Agriculture – Agriculture and Food Research Initiative 10.310. 2011.

Paul, D.R. (PI). “Streams of stakeholders creating a confluence to support a healthy community”. Robert Wood Johnson Foundation. 2011.

Scruggs, P. W. (PI) and **Paul, D.R.** "Quantifying Physical Activity in Physical Education". National Institutes of Health. 2010.

McKibben, S. (PI). "Sustainable Communities. Office of Sustainable Housing and Communities". United States Department of Housing and Urban Development. 2010.

Scruggs, P. W. (PI). "Statewide Prevalence and Correlates of Physical Education Physical Activity in Idaho". National Institutes of Health. 2010.

Scruggs, P. W. (PI). "Statewide Prevalence and Correlates of Physical Education Physical Activity in Idaho". Robert Wood Johnson Foundation Active Living Grants Round 10. 2010.

Paul, D.R. (PI). “Streams of stakeholders creating a confluence to support a healthy community”. National Institutes of Health. 2009.

Dickin, D.C. (PI). “Facilitating engagement in physical activity of older adults through improved balance and mobility”. National Institutes of Health. 2009.

Seegmiller, J.G. (PI). “Pre and Postintervention Measures of Bone Strength Among 7-13 Year-Old Girls: Interventions and a prediction model to prevent future fragility fracture”. National Institutes of Health Challenge Grant. 2009.

Pinel, S.L. (PI). “Institute for Sustainable Communities and Bioregional Planning: An Interdisciplinary Institute for Graduate Study, Applied Research, Community Outreach, and Revenue Enhancement to institutionalize the 2006-2011 Building Sustainable Communities Strategic Initiative”. University of Idaho Request For Innovation. 2009.

Seegmiller, J.G. (PI). “Bone and landing profile of children with various BMI”. University of Idaho seed grant. 2008.

Seegmiller, J.G. (PI). “Bone and landing profile of children with various BMI”. American College of Sports Medicine. 2008.

Resnick, H.R. (PI). "REACH: Research on Arrived East African Acculturation and Health Study". National Institutes of Health. 2005 and 2006.

Rumpler, W.V. (PI). "Validation of 24H recall via direct measurement of food intake", National Institutes of Health. 2003, 2004, and 2005.

Rumpler, W.V. (PI). "Role of exercise in weight loss during ad libitum diets". National Institutes of Health. 2002, 2003, and 2004.

Rumpler, W.V. (PI). "Interaction between diet and exercise interventions in overweight military and civilians" US Army Medical Research and Materiel Command (USAMRMC). 2004.

Paul, D.R. (PI). "Carbohydrate oxidation during high-intensity exercise after a fat-rich meal". US Olympic Committee. 1998.

Paul, D.R. (PI). "Carbohydrate and lipid kinetics during the menstrual cycle". American College of Sports Medicine Research Award. 1998.

TECHNICAL REPORTS

Scruggs, P.W., **Paul, D.R.**, Goc Karp, G., Brown, H., Vella, C.A., Davis, C.A., Jensen, K. Statewide Surveillance of Physical Education Physical Activity in Idaho. University of Idaho Department of Movement Sciences. Report on the status of physical education physical activity in Idaho to the Idaho State Department of Education Coordinated School Health, 2013.

Measurement teams from the University of Idaho (**Paul, D.R.**, Brown, H., Scruggs, P.W., Browder, K.D., and Goc Karp, G.), Boise State University, Lewis and Clark State College, and Idaho State University. Idaho schools Body Mass Index (BMI) assessment. Report to the Centers For Disease Control and Prevention, October 2009 (preliminary report) and January 2011 (final report).

Measurement teams from the University of Idaho (Scruggs, P.W., Brown, H., **Paul, D.R.**, Browder, K.D., and Goc Karp, G.), Boise State University, Lewis and Clark State College, and Idaho State University. Assessing quality and quantity of Physical Education and activity in Idaho. Report to the Centers For Disease Control and Prevention, October 2009.

TEXTBOOK CHAPTERS

Jacobs, K.A., **Paul, D.R.**, and Sherman, W.M. Fat Metabolism. In: *Exercise and Sport Science*. William E. Garrett, Jr. and Donald T. Kirkendall (eds.). Lippincott, Williams and Wilkins. 2000: Pp9-18.

SERVICE TO ACADEMIC AND GOVERNMENTAL ORGANIZATIONS

Exercise, Sport, and Health Sciences Health Program Coordinator. 2014-2020.

Committee Membership (University):

- Faculty Senate. 2019-2022.
- Campus Recreation Committee. 2018-2020.

- Promotion Committee. 2015, 2016.
- University Committee on General Education. 2014-2015.
- Research Council. 2010-2018.

Committee Membership (College)

- College Curriculum Committee (CCC). 2010-2022.
- Graduate Research Policy Committee (GRPC). 2010-14.
- Committee Member, Dean's Advisory Committee. 2008-2010.
- Innovation and Creative Activity Grant Review Committee, 2010.
- Admissions, Petitions, Retention Committee, 2008-10

Committee Membership (Bioregional Planning)

- Executive Panel Member, University of Idaho Building Sustainable Communities Initiative, and Bioregional Planning Master's Degree Program. 2007-2017.
- Curriculum Development Committee, Master's Degree in Bioregional Planning and Community Design. 2008-2009.
- Graduate Student Handbook Committee, Master's Degree in Bioregional Planning and Community Design. 2008-2012.

Committee Membership (Department)

- Program Assessment (2013)
- Scholarship Committee (Chair) 2014-2016.
- Third year review [2012(2),2013(3), 2015(Chair), 2017, 2018, 2019]
- Promotion [2011(2), 2013(2)]
- Faculty search [2010, 2013(2), 2014(2),2015,2016(Chair), 2017]
- Staff search [2011, 2012, 2013, 2014(3)]

SERVICE TO PROFESSIONAL ORGANIZATIONS

Editorial Board Member, PLOS One. 2018-2021.

Member, American Public Health Association, 2007-2014.

- Member of Physical Activity Special Primary Interest Group Leadership Team, American Public Health Association, 2007-2013.
- Member of Program Planning Committee, American Public Health Association Physical Activity Special Primary Interest Group, 2007-2014.
- Physical Activity Special Primary Interest Group program planning chair for the 2011 National American Public Health Association conference in Washington D.C.
- Member, American College of Sports Medicine. 1997-present.

Guest reviewer

- American Journal of Clinical Nutrition, 2008.
- American Journal of Epidemiology, 2013, 2022
- BMC Family Practice, 2012.

- British Journal of Nutrition, 2013.
- Building and Environment, 2022.
- Cities, 2019.
- Clinical Nutrition, 2010(2), 2016.
- European Journal of Clinical Nutrition, 2014.
- International Journal of Sports Medicine, 1996, 1998, 2002, and 2006.
- Journal of Negative Results in Biomedicine, 2007.
- Journal of Cereal Chemistry, 2004.
- Journal of Clinical Medicine, 2019.
- Journal of Sports Sciences, 2015, 2016.
- Measurement in Physical Education and Exercise Science, 2015.
- Medicine and Science in Sports and Exercise, 2012, 2016.
- Nutrients, 2018, 2022 (2)
- Plos One, 2015, 2016, 2017(2).
- Research Quarterly, 2013.

Textbook Review, Allyn and Bacon Publishers, 1998.

TEACHING EXPERIENCE

University of Idaho, Moscow, ID.

Design and Analysis of Research in Movement Sciences (undergraduate)
Exercise Testing and Prescription (undergraduate)
Health and Community Development (graduate)
Intermediate Quantitative Analysis in Education (graduate)
Internship Preparation and Professional Development (undergraduate)
Introduction to Exercise Science and Health
Measurement and Evaluation (undergraduate)
Physiology of Exercise (undergraduate and graduate)

University of Texas at El Paso, El Paso, TX

Exercise Physiology (undergraduate and graduate),
Coronary Intervention Programs
Statistics and Measurement
Anatomical Kinesiology

The Ohio State University, Columbus, OH

Diet and Exercise
Swim Conditioning
Kinesiology
Exercise Physiology and Sport Performance
Applied Exercise Physiology I and II

East Tennessee State University, Johnson City, TN

Weight Training
General Conditioning
Volleyball

Golf
Racquetball