

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Scott J. Strath, PH.D.		POSITION TITLE Assistant Professor	
eRA COMMONS USER NAME sstrath			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Sheffield Hallam University	B.Ed.	1992-1996	Physical Education
Ball State University, Muncie, IN	M.S.	1996-1998	Exercise Physiology
The University of Tennessee, Knoxville, TN	Ph.D.	1998-2001	Exercise Physiology
University of Kentucky, Lexington, KY	Post-Doctoral	2001-2002	Phys Med & Reh/ Ex Phys
University of Michigan, Ann Arbor, MI	Post-Doctoral	2002-2003	Phys Med & Reh/ Ex Phys

A. Appointments and HonorsAppointments

- 2001 Post-Doctoral Scholar, Spinal Cord & Brain Injury Research Center, University of Kentucky, Lexington KY
- 2002-2003 Post-Doctoral Research Fellow, Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor MI
- 2003-present Assistant Professor, Department of Human Movement Sciences, University of Wisconsin-Milwaukee, Milwaukee, WI
- 2003-present Director, Older Adult Fitness Programs, Department of Human Movement Sciences' Aging and Cultural Diversity Initiative, University of Wisconsin-Milwaukee, WI
- 2004-present Center Scholar, Center for Age and Community, University of Wisconsin-Milwaukee, WI
- 2006-present Center Scientist, Center for Urban Population and Health, University of Wisconsin-Milwaukee, University of Wisconsin-Madison Medical School, Aurora Health Care, WI
- 2007-present Honorary Fellow, Department of Population Health Sciences, University of Wisconsin Medical School, University of Wisconsin-Madison
- 2007-present Adjunct Assistant Professor, Division of Epidemiology, Department of Population Health, Medical College of Wisconsin
- 2008-present Associate Professor, Department of Human Movement Sciences, University of Wisconsin-Milwaukee, Milwaukee, WI

Committees and Scientific Activities

- 2002 Technology for SCI Wellness Conference Steering Committee, University of Michigan
- 2002-present Manuscript Reviewer: 10 international circulation journals
- 2002-present Kentucky Science and Engineering Foundation (KSEF) Grant Review Panel
- 2003-present Scientific Advisory: Wisconsin Walks
- 2005-present Medical Research Council (MRC), United Kingdom Grant Review Panel
- 2006 Member, NIH Improving Diet and Physical Activity Assessment Scientific Review Panel

Honors and Awards

- 2002 American Congress of Rehabilitation Medicine, Bernard M. Baruch Essay Contest winner
- 2002 Fellow – Physical Activity & Public Health Postgraduate Course on Research Directions and Strategies – Centers for Disease Control & Prevention / University of South Carolina

B. Selected Publications

Peer Reviewed Journal Articles

- Ainsworth, B.E., W.L. Haskell, M.C. Whitt, M.L. Irwin, A.M. Swartz, **S.J. Strath**, W.L. O'Brien, D.R. Bassett Jr., K.H. Schmitz, P.O. Emplainscourt, D.R. Jacobs, and A.S. Leon. *Compendium of physical activities: an update of activity codes and MET intensities*. Medicine and Science in Sports and Exercise. 32(9):S498-S516, 2000.
- Ainsworth, B.E., D.R. Bassett Jr., **S.J. Strath**, A.M. Swartz, W.L. O'Brien, R.W. Thompson, D.A. Jones, C.A. Macera, and C.D. Kimsey. *Comparison of three methods for measuring the time spent in physical activity*. Medicine and Science in Sports and Exercise. 32(9):S457-S464, 2000.
- Bassett Jr., D.R., B.E. Ainsworth, A.M. Swartz, **S.J. Strath**, W.L. O'Brien, and G.A. King. *Validity of four motion sensors in measuring moderate intensity physical activity*. Medicine and Science in Sports and Exercise. 32(9): S471-S480, 2000.
- Strath, S.J.**, A.M. Swartz, D.R. Bassett Jr., W.L. O'Brien, G.A. King, and B.E. Ainsworth. *Evaluation of heart rate as a method for assessing moderate intensity physical activity*. Medicine and Science in Sports and Exercise. 32(9):S465-S470, 2000.
- Swartz, A.M., **S.J. Strath**, D.R. Bassett Jr., W.L. O'Brien, G.A. King, and B.E. Ainsworth. *Estimation of energy expenditure using CSA accelerometers at hip and wrist sites*. Medicine and Science in Sports and Exercise. 32(9):S450-S556, 2000.
- King, G.A., E.C. Fitzhugh, J.E. McLaughlin, D.R. Bassett Jr., **S.J. Strath**, and A.M. Swartz. *Relationship of leisure-time physical activity and occupational activity to the prevalence of obesity*. International Journal of Obesity. 25(5):606-612, 2001.
- Bassett Jr., DR, E.T. Howley, D.L. Thompson, G.A. King, **S.J. Strath**, J.E. McLaughlin, and B.B. Parr. *Validation of a computerized metabolic measurement system*. Journal of Applied Physiology 2001. 91: 218-224.
- Strath, S. J.**, D. R. Bassett Jr., A. M. Swartz, and D. L. Thompson. *Simultaneous heart rate-motion sensor technique to estimate energy expenditure*. Medicine and Science in Sports and Exercise 33: 12: 2118-2123, 2001.
- Strath S.J.**, D.R. Bassett Jr., D.L. Thompson, A.M. Swartz. *Validity of the simultaneous heart rate-motion sensor technique to predict physical activity*. Medicine and Science in Sports and Exercise. 34: 888-894, 2002.
- Strath, S. J.**, D. R. Bassett Jr., and A. M. Swartz. *Comparison of MTI regression equations to predict time spent in physical activity*. International Journal of Sports Medicine 24: 298-303, 2003.
- Swartz, A. M., **S. J. Strath**, B. A. Loftus, B. B. Moore, and D. L. Thompson. *Increasing daily walking improves glucose tolerance in overweight women*. Preventive Medicine 37: 356-362. 2003.
- Swartz, A.M., D.R. Bassett Jr., D.L. Thompson, B.B. Moore, and **S.J. Strath**. *Effects of body mass index on the accuracy of an electronic pedometer*. International Journal of Sports Medicine 24: 588-592, 2003.
- Strath, S. J.**, D. R. Bassett Jr., S. H. Ham, and. A. M. Swartz. *Assessment of physical activity by telephone interview versus objective monitoring*. Medicine and Science in Sports and Exercise 35: 12: 2112-2118, 2003.
- Eisenmann, J. C., **S. J. Strath**, D. Shadrick, P. Rigsby, N. Hirsch, L. Jacobson. *Validity of uniaxial accelerometry during activities of daily living in children*. European Journal of Applied Physiology 91: 259-263, 2004.
- Strath, S.J.**, D. R. Bassett Jr., and. A. M. Swartz. *Comparison of the College Alumnus Questionnaire Physical Activity Index with objective monitoring*. Annals of Epidemiology 14: 6:409-15, 2004.
- Tudor-Locke, C., D. R. Bassett, Jr., A. M Swartz, **S. J. Strath**, B. B. Parr, J. Reis, K. D. DuBose and B. E. Ainsworth. *One year of pedometer self-monitoring*. Annals of Behavioral Medicine 28: 3:158-162, 2004.
- Conger, S. A., **S. J. Strath**, D. R. Bassett, Jr. *Validity and reliability of the FitSense FS-1 Speedometer during walking and running*. Int J Sports Med. 26:3:208-13, 2005.
- Strath, S. J.**, S. Brage, and U. Ekelund. *Integration of Physiological and Accelerometer Data to Improve Physical Activity Assessment*. Medicine and Science in Sports and Exercise 37: 11: S563-S571, 2005.
- Ham, S.A., J.P. Reis, **S.J. Strath**, K.D. Dubose, and B.E. Ainsworth. *Discrepancies in identifying objectively determined physical activity bouts*. Medicine and Science in Sports & Exercise. 39:52-58, 2007.

- Swartz, A.M., **S.J. Strath**, S.J. Parker, N.E. Miller, and L.J. Cieslik. *Ambulatory activity and body mass index in white and non-white older adults*. Journal of Physical Activity & Health. 4: 3:294-304, 2007.
- Strath, S.J.**, A.M. Swartz, S.J. Parker, N.E. Miller, and L.J. Ceislik. *Walking and the metabolic syndrome in older adults*. Journal of Physical Activity & Health. 4: 4:397-410, 2007.
- Strath, S.J.**, R.F. Isaacs, and M.J. Greenwald. *Operationalizing environmental indicators for influencing physical activity in the elderly*. Journal of Physical Activity & Aging. 15: 4:412-424, 2007.
- Swartz, A.M., **S.J. Strath**, S.J. Parker, and N.E. Miller. *The impact of BMI and accumulated ambulatory activity on blood pressure and fasting glucose in older adults*. Journal of Aging and Physical Activity. 16: 2:188-200, 2008.
- Tudor-Locke, C., D.R. Bassett, Jr., W.J. Rutherford, B.E. Ainsworth, C.B. Chan, K. Croteau, B. Giles-Corti, G. Le Masurier, K. Moreau, J. Mrozek, J.-M. Oppert, A. Raustorp, **S.J. Strath**, D.L. Thompson, M. Whitt, B. Wilde, and J.R. Wojcik. *BMI-referenced cut-points for pedometer-determined steps/day in adults*. Journal of Physical Activity and Health. 5: (suppl 1):S126-S139, 2008.
- Parker, S.J., **Strath, S.J.**, and Swartz, A.M. *Physical activity measurement in older adults: impact on relationships with mental health*. Journal of Aging and Physical Activity. In Press, 2008.
- Swartz, A.M., **Strath, S.J.**, Miller, N.E., Cashin, S.E., and Cieslik, L.J. *Glucose control and walking in a multi-ethnic sample of older adults*. Gerontology. In Press, 2008.
- Strath, S.J.**, Holleman R.G., Ronis, D.L., Swartz, A.M., and Richardson C.R. *Objective physical activity accumulation in bouts and non-bouts and relationships to markers of obesity in U.S. adults*. Preventing Chronic Disease. In Press, 2008.
- Janney, C.A., Richardson, C.R., Holleman, R.G., Glasheen, C., **Strath, S.J.**, Conroy, M.B., and Kriska, A.M. *Gender moderates the inverse relationship between objectively measured physical activity and mental health service use*. Journal of Mental Health and Physical Activity. In Press, 2008

Book Chapters

- D. R. Bassett Jr., and **S. J. Strath**. *The Pedometer*. Physical Activity Assessments for Health-Related Research. Eds. G. Welk & D. Dale. Human Kinetics. Champaign, IL. 2002, pp 163-177.

C. Research Support

Active

5 K01 AG025962	(Strath)	09/30/07 – 7/31/11	9.6 Calender
NIH-NIA		\$648,253.00	

Physical Activity Enhancement in the Elderly.

Career development award to explore physical activity monitoring and enhancement in the elderly.

Role: PI

N/A	(Strath)	06/01/06 – 05/31/09	.6 Calender
UWM-CUPH Center Scientist Award		\$124,780.00	

Utilizing Tailored Step-Count Feedback to Enhance Physical Activity in the Elderly

To examine mediated walking web based physical activity interventions in the elderly.

Role: PI

N/A	(Strath)	01/01/08-12/31/08	.1 Calender
State of WI, DHFS (contract)		\$64,000.00	

Wellness Works

To provide free fitness facilities in local community senior centers.

Role: Contractual PI

N/A	(Swartz)	01/01/08-12/31/09	.1 Calender
State of WI, DHFS (contract)		\$108,000.00	

Help Yourself to Healthy Aging: Phase II

To evaluate the implementation of a chronic disease self management program (CDSMP) in Milwaukee County.

Role: Co-I

Pending

N/A (Strath) 07/01/08-6/30/13
NIH-R01 \$1,775,519.00

Heart Rate and Movement Integration to Improve Physical Activity Assessment
A comprehensive validity and reliability study on integrating objective methods to improve physical activity and energy expenditure assessment.
Role: PI

N/A (Smith) 02/01/09-1/31/12
NIH-R01 \$1,998,219.00

Using Exercise to Enhance Brain Function in Older Adults with Mild Cognitive Impairment
A pilot clinical trial to determine if exercise, through its ability to stimulate the growth of nerve cells and new growth of blood vessels in the brain, may reverse age-related declines in memory and brain function.
Role: Co-I

N/A (Colbert) 04/01/09-3/31/14
NIH-R01 \$862,634.00

Physical activity and functional health of colorectal cancer survivors
A multi-site trial investigating the longitudinal benefits of physical activity in colorectal cancer survivors 1 year post diagnoses.
Role: Site PI

Recently Completed Research Support

N/A (Strath) 08/01/04 – 01/31/07
RWJF-ALR \$99,997.00

Environmental Influences of Physically Active Lifestyles of the Elderly.
To examine environmental attributes related with active living in the elderly.
Role: PI

N/A (Strath) 01/01/04 – 06/31/06
State of WI, DHFS \$102,405.00

Community Based Wellness in Aging Resource Centers: Building Bridges for Cultural Connections
To examine culturally diverse health delivery in selected senior centers in Milwaukee County.
Role: PI

N/A (Strath) 06/01/04 – 12/31/05
UWM-GSRA \$14,340.00

Physical Activity Enhancement for Community Dwelling Older Adults
To examine three different experimental interventions for increasing physical activity participation in older adults.
Role: PI

N/A (Strath) 07/01/03 – 12/31/05
UWM-CAC \$3,900.00

Relating Physical Activity to Health: Connections with Community Facilities
To examine relationships between access to community exercise facilities and overall physical activity levels in older adults.
Role: PI