

## CURRICULUM VITAE

### DAVID MARK BUCHNER, M.D., M.P.H.

#### CONTACT INFORMATION

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#### EDUCATION

1970 – 1974 Harvard College, Cambridge, Massachusetts; Bachelor of Arts (B.A.) (1974) Psychology.  
1974 – 1977 University of Kansas, Kansas City, Kansas; Doctorate of Medicine (M.D.) (1977).  
1982 – 1984 University of Washington, Seattle, Washington; Master of Public Health (M.P.H.) (1984) Health Services.

#### PROFESSIONAL POSITIONS AND TRAINING

2008-present Shahid and Ann Carlson Khan Professor in Applied Health Sciences, Department of Kinesiology and Community Health, University of Illinois at Urbana-Champaign, Champaign, IL  
2013 – 2014 Visiting Scientist, Fred Hutchinson Cancer Research Center, Seattle, WA  
2008 – 2013 Director, Master of Public Health Program, University of Illinois at Urbana-Champaign, Champaign, IL  
1999 – 2008 Chief, Physical Activity and Health Branch (PAHB), Division of Nutrition and Physical Activity (DNPA), National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP), Centers for Disease Control and Prevention (CDC), Atlanta, GA  
1998 – 1999 Director, Northwest Prevention Effectiveness Center, University of Washington, Seattle, Washington.  
1997 – 1998 Deputy Director, Northwest Prevention Effectiveness Center, University of Washington, Seattle, Washington.  
1996 – 1998 Co-Director, Center for Cost and Outcomes Research, University of Washington, Seattle, Washington.  
1995 – 1999 Professor, Department of Health Services, School of Public Health and Community Medicine, University of Washington, Seattle, Washington.  
1995 – 1999 Adjunct Professor, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Washington, Seattle, Washington.  
1994 – 1995 Visiting Senior Lecturer, Department of Medicine, University of Otago, Dunedin, New Zealand  
1993 – 1996 Director, Community Medicine Program, Department of Health Services, School of Public Health and Community Medicine, University of Washington, Seattle, Washington.  
1993 – 1994 Acting Co-Director, HSR&D Post-Doctoral Ph.D. Fellowship Program, Northwest HSR&D Program, Seattle VA Medical Center, Seattle, Washington.  
1989 – 1995 Associate Professor, Department of Health Services, School of Public Health and Community

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- Medicine, University of Washington, Seattle, Washington.
- 1989 – 1995 Adjunct Associate Professor, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Washington, Seattle, Washington.
- 1989 – 1999 Adjunct Associate Scientific Investigator, Center for Health Studies, Group Health Cooperative of Puget Sound, Seattle, Washington.
- 1986 – 1999 Research Coordinator, Northwest HSR&D (Health Services Research and Development) Field Program, VA Medical Center, Seattle, Washington.
- 1984 – 1989 Assistant Professor, Department of Health Services, School of Public Health and Community Medicine, University of Washington, Seattle, Washington.
- 1984 – 1989 Adjunct Assistant Professor, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Washington, Seattle, Washington.
- 1983 – 1984 Acting Instructor, Department of Medicine, University of Washington, Seattle, Washington.
- 1982 – 1984 Robert Wood Johnson Clinical Scholar, University of Washington Clinical Scholars Program, Department of Medicine, Seattle, Washington.
- 1981 – 1982 Chief Resident, Department of Medicine, VA Medical Center, Indianapolis, Indiana.
- 1978 – 1981 Resident, Department of Medicine, University of Indiana Medical Center, Indianapolis, Indiana.
- 1977 – 1978 Fellow, Department of History and Philosophy of Medicine, University of Kansas, Kansas City, Kansas.

## **SCHOLARSHIPS, FELLOWSHIPS, HONORS, AND AWARDS**

- 1977 Carlos Guffey Prize for the best essay in the History of Medicine, University of Kansas.
- 1982 – 1984 Robert Wood Johnson Clinical Scholar
- 1995 R.S.L Visiting Professor for Australian Society for Geriatric Medicine
- 1998 Selected as “Seattle Best Doctor” in Geriatric Medicine
- 2000’s Highly Cited Researcher. Institute for Scientific Information. Category of Social Sciences. See <http://highlycited.com/names/>
- 2005 George Butler Lecture, Leisure Research Symposium, National Recreation and Park Association Congress (San Antonio, Texas)
- 2006 Nominated for “Outstanding Manager” category of “Federal Employee of the Year” (~15 managers were so recognized from all federal agencies in the Atlanta region)
- 2009 Charles C. Shepard Science Award for Prevention and Control (awarded by CDC to the authors of the best scientific paper written by CDC staff).
- 2009 Fellow, Gerontological Society of America
- 2010 R. Tait McKenzie Memorial Lecture, AAHPERD (American Alliance for Health, Physical Education, Recreation, and Dance).
- 2010 Fellow, American College of Sports Medicine
- 2011 King James McCristal Distinguished Scholar Award (one award annually recognizing outstanding research career), College of Applied Health Sciences, University of Illinois
- 2014 Selected to present Clifford Lewis Scholar Lecture at University of Georgia
- 2014-2017 Elected to Board of Trustees, American College of Sports Medicine
- 2016-2017 Selected to be a member of the Physical Activity Guidelines Advisory Committee, Department of Health and Human Services.

## **PROFESSIONAL ACTIVITIES**

### **Research-Related**

- Chairman, Data Safety Monitoring Board for the NIA/PCORI STRIDE study (a pragmatic randomized trial of fall prevention in older adults (2013-present)
- Member, Advisory Committee, Roybal Center for Translational Research on Aging, University of Illinois at Chicago (2013-present).
- Chairman, Strategic Health Initiative-Aging Committee, American College of Sports Medicine (2010-present)
- Member, Data Safety and Monitoring Board for National Institute of Aging LIFE (Lifestyle Interventions and Independence for Elders) main study (2009 - 2015)
- Coordinator, “Novel Strategies and Approaches for Sedentary Behavior Research Session” of the “Sedentary Behavior: Identifying Research Priorities Workshop” sponsored by NHLBI and NIA.(This workshop identified priorities for research on health effects of sedentary behavior) (2013)
- Member, Physical Activity Committee, Council on Nutrition, Physical Activity, and Metabolism, American Heart Association (2009 – 2013)
- Member, Clinical Trials Advisory Panel, National Institute on Aging (2008 -- 2014)
- Member, Data Safety and Monitoring Board for National Institute of Aging CALERIE (Comprehensive Assessment of Long-term Effects of Reducing Intake of Energy) studies (2000- 2011).
- Guest Editor, Supplement to the American Journal of Preventive Medicine (2008)
- Member, National Institute on Aging Exercise Task Force (2005 - 2012)
- Member, Program Advisory Committee, Fall Prevention Center of Excellence, University of Southern California Andrus Gerontology Center (2005-2007)
- Ex Officio Member, Physical Activity Committee, Council on Nutrition, Physical Activity, and Metabolism, American Heart Association (2003 - 2008)
- Member, Data Safety and Monitoring Board for National Institute of Aging LIFE Pilot (Lifestyle Interventions and Independence for Elders) study, (2003-2006)
- Chairman, National Advisory Committee for Robert Wood Johnson Foundation “Active For Life” research initiative (2000-2004)
- Ad Hoc Member, National Institute on Aging, Board of Scientific Counselors (2003).
- Member, Scientific Advisory Committee, Active Living by Design: Creating Activity-Enhancing Residential Settings (project at Georgia Institute of Technology funded by Robert Wood Johnson Foundation, 2002-2004)
- Member, Advisory Panel to National Institute of Aging, Testosterone Replacement in Men (2000).
- Member, External Review Committee for the Claude Pepper Older Adult Independence Center at UCLA (1992-2001).
- Sponsor, Harkness Fellowship for Sarah Lamb, Ph.D. (1995-96) (The Harkness Fellowships is a program of The Commonwealth Fund that provides funding for mid-career professionals to pursue studies in the USA).
- Chairman, FICSIT (Frailty and Injuries: Cooperative Studies of Intervention Techniques) Steering Committee (1990-94). The Steering Committee (consisting of NIA staff, the principal investigators of the 8 FICSIT sites, and the principal investigator of the Coordinating Center) coordinated the research program among the FICSIT sites.
- Chairman, FICSIT Physical Function Committee (1990-94).
- Chairman, SOTA I (State-Of-The-Art) Conference, Fall, 1992, Washington, D.C. The conference was the first of a series of conferences being produced by the DVA HSR&D Research Service to disseminate state of the art information about health services research topics.

## **Membership in Professional Organizations**

Gerontological Society of America  
American College of Sports Medicine

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American Public Health Association  
Illinois Public Health Association  
National Physical Activity Society  
International Society for Physical Activity and Health

## Editorial Boards

Member, Editorial Board, *The Journal of Gerontology* (1985-88)  
Associate Editor, *Journal of Physical Activity and Health* (2008-2013)

## Licensure to Practice

Washington State, No. 19802 (1982 - 2005)

## Board Certification

American Board of Internal Medicine (1982)  
Diplomate in Geriatric Medicine, American Board of Internal Medicine (1988-1998)

## Medical Practice

Physician, Senior Care Program, Harborview Medical Center, Seattle, Washington, 1982-1995.  
Physician, GRECC, VA Puget Sound Health Care System, 1996 to 1999.

## BIBLIOGRAPHY

### Papers in Refereed Journals

(numbered in chronological order; listed in reverse chronological order)

129. Buchner DM, Rillamas-Sun E, Di C, LaMonte MJ, Marshall S, Hunt J, Zhang Y, Rosenberg D, Lee I, Evenson KR, Herring AH, Lewis CE, Stefanick ML, LaCroix AZ. Accelerometer-measured moderate to vigorous physical activity and incidence rates of falls in older women. In Press at *J Am Geriatr Soc*.
128. Turi KN, Buchner DM, Grigsby-Toussaint DS. Predicting Risk of Type 2 Diabetes by Using Data on Easy-to-Measure Risk Factors. *Prev Chronic Dis* 2017;4:E23. [PMID: 28278129]
127. LaCroix AZ, Rillamas-Sun E, Buchner D, Evenson KR, Di C, Lee IM, Marshall S, LaMonte MJ, Hunt J, Tinker LF, Stefanick M, Lewis CE, Belletiere J, Herring AH. The Objective Physical Activity and Cardiovascular Disease Health in Older Women (OPACH) Study. *BMC Public Health* 2017;4;17:192. [PMID: 28193194]
126. Bai J, Di C, Xiao L, Evenson KR, LaCroix AZ, Crainiceanu CM, Buchner DM. An Activity Index for Raw Accelerometry Data and Its Comparison with Other Activity Metrics. *PLoS One*. 2016;11:e0160644. [PMID: 27513333]
125. Bauman A, Merom D, Bull FC, Buchner DM, Fiatarone Singh MA. Updating the evidence for physical activity: summative reviews of the epidemiological evidence, prevalence, and interventions to promote "Active Aging." *Gerontologist* 2016;56 (Suppl 2):S268-80. [PMID: 26994266]

124. Gay JL, Buchner DM, Schmidt MD. Dose-response association of physical activity with HbA1c: intensity and bout length. *Prev Med* 2016;86:58-63. [PMID: 26827616]
123. Evenson KR, Wen F, Herring AH, Di C, LaMonte MJ, Tinker LF, Lee IM, Rillamas-Sun E, LaCroix AZ, Buchner DM. Calibrating physical activity intensity for hip-worn accelerometry in women age 60 to 91 years: The Women's Health Initiative OPACH calibration study. *Prev Med Rep* 2015;2:750-756. [PMID: 26527313].
122. Freedson P, Buchner DM, Pate R, Hatfield B, DiPietro L, Dzewaltowski DA, Gavin T, Nessler J. Integrating public health in kinesiology: instruction, academic programs, research, and outreach. *Kinesiol Rev* 2015;4:355-369.
121. Rillamas-Sun E, Buchner DM, Di C, Evenson KR, LaCroix AZ. Development and application of an automated algorithm to identify a window of consecutive days for accelerometer wear for large scale studies. *BMC Res Notes*. 2015 June 26;8:270. doi: 10.1186/s13104-015-1229-2. [PMID: 26113170] [PMCID: PMC4482153]
120. Rosenberg DE, Lee IM, Young DR, Prohaska TR, Owen N, Buchner DM. Novel strategies for sedentary behavior research. *Med Sci Sports Exerc* 2014;47:1311-15. [PMID: 25222817] [PMCID: PMC4362872]
119. Marquez DX, Wilbur J, Hughes SL, Berbaum ML, Wilson RS, Buchner DM, McAuley E. B.A.I.L.A. – A Latin dance randomized controlled trial for older Spanish-speaking Latinos: Rationale, design, and methods. *Contemp Clin Trials* 2014; 38:397-408. [PMID: 24969395] [PMCID: PMC4123962]
118. Buchner DM. The development and content of the 2008 *Physical Activity Guidelines for Americans*. *J Phys Educ Rec Dance* 2014;85:13-16. [PMID: 24714332]
117. Roux L, Pratt M, Lee IM, Bazzare T, Buchner DM. Does age modify the cost-effectiveness of community-based physical activity promotion interventions? *J Phys Act Health* 2015; 12:224-31. [PMID: 24836847]
116. Davis JC, Verhagen E, Bryan S, Liu-Ambrose T, Borland J, Buchner D, Hendriks M, Weiler R, Morrow JR, van Mechelen W, Blair SN, Pratt M, Windt J, al-Tunaiji H, Macri E, Khan KM. 2014 consensus statement from the first Economics of Physical Inactivity Consensus (EPIC) Conference (Vancouver). *Br J Sports Med*. 2014;48:947-951. [PMID: 24859181]
115. Hall KS, Morey MC, Dutta C, Manini TM, Weltman AL, Nelson ME, Morgan AL, Senior JG, Seyffarth C, Buchner DM. Activity-related energy expenditure in older adults: A call for more research. *Med Sci Sports Exerc* 2014; 46:2335-40 [PMID: 24714651] [PMCID: PMC4188802]
114. Gay JL, Buchner DM. Ethnic disparities in objectively measured physical activity may be due to occupational activity. *Prev Med* 2014;63:58-62. [PMID: 24589439]
113. Seguin R, Buchner DM, Liu J, Allison M, Manini T, Wang CY, Manson JE, Messina CR, Patel MJ, Moreland L, Stefanick ML, LaCroix AZ. Sedentary behavior and mortality in older women: The Women's Health Initiative. *Am J Prev Med* 2014;46:122-135. [PMID: 24439345] [PMCID: PMC3896923]
112. Bornstein DB, Pate RR, Buchner DM. Development of a National Physical Activity Plan for the United States. *J Phys Act Health* 2014;11:463-469. [PMID: 24714332]
111. Gay JL, Salinas JJ, Buchner DM, Mirza P, Kohl H, Reininger BM. Meeting physical activity guidelines is associated with lower allostatic load and inflammation in Mexican Americans. *J Immigr Minor Health* 2015; 17:574-81. [PMID: 24242155]
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109. Kerr J, Rosenberg DE, Nathan A, Millstein RA, Carlson JA, Crist K, Wasilenko K, Bolling K, Castro CM, Buchner DM, Marshall SJ. Applying the ecological model of behavior change to a physical activity trial in retirement communities: Description of the study protocol. *Contemp Clin Trials* 2012;33:1180-1188. [PMID: 22921641] [PMCID: PMC3468706]
108. Kerr J, Marshall S, Godbole S, Neukam S, Crist K, Wasilenko K, Golshan S, Buchner D. The relationship between outdoor activity and health in older adults using GPS. *Int J Environ Res Public Health* 2012;4614-

4625. [PMID: 23330225] [PMCID: PMC3546779]
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105. Teri L, McCurry SM, Logsdon RG, Gibbons LE, Buchner DM, Larson EB. A randomized controlled clinical trial of SPA -- the Seattle Protocol for Activity in older adults. *J Am Geriatr Soc* 2011; 59:1188-96. [PMID: 21718259] [PMCID: PMC3318986]
104. Baruth M, Wilcox S, Wegley S, Buchner DM, Ory MG, Phillips A, Schwamberger K, Bazzarre TL. Changes in physical functioning in the Active Living Every Day program of the Active for Life initiative. *Int J Behav Med* 2010;online.[ PMID: 20589488]
103. Gomez LF, Parra DC, Buchner D, et al. Built Environment attributes and walking patterns among the elderly population in Bogota´. *Am J Prev Med* 2010;38:592-599.[PMID: 20494235]
102. Parra DC, Gomez LF, Sarmiento OL, Buchner DM, Brownson R, Schmid T, Gomez V, Lobelo F. Perceived and objective neighborhood environment attributes and health related quality of life among the elderly in Bogota´, Colombia. *Soc Sci Med* 2010;70:1070–1076. [PMID: 20138418]
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99. Kruger J, Buchner DM, Prohaska TR. The prescribed amount of physical activity in randomized clinical trials in older adults. *Gerontologist* 2009;49(S1):S100-S107. [PMID: 19525210] [PMCID: PMC1955422]
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97. Roux L, Pratt M, Tengs TO, Yore M, Yanagawa TL, Van Den Bos J, Rutt C, Brownson RC, Powell KE, Heath G, Kohl HW, Teutsch S, Cawley J, Lee I, West L, Buchner DM. Cost effectiveness of community-based physical activity interventions. *Am J Prev Med* 2008;35:578–588. [PMID: 19000846]
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94. Buchner DM, Gobster PH. Promoting active visits to parks: models and strategies for transdisciplinary collaboration. *J Phys Act Health*. 2007;4 Suppl 1:S36-49. [PMID: 17672222]
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90. Carlson SA, Kruger J, Kohl HW, Buchner DM. Cross-sectional relationship between physical activity and falls in older adults, United States 2003. *J Phys Act Health* 2006;3:390-404.

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78. Wang G, Macera CA, Pratt M, Heath G, Buchner DM. Cost analysis of the built environment: the case of bike and pedestrian trails in Lincoln, Neb. *Am J Public Health* 2004;94:549-53.
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75. Teri L, Gibbons LE, McCurry SM, Logsdon RG, Buchner DM, Barlow WE, Kukull WA, LaCroix AZ, McCormick W, Larson EB. Exercise plus behavioral management in patients with Alzheimer disease: a randomized controlled trial. *JAMA* 2003;290:2015-22. [PMID: 14559955]
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69. Bernstein A, Nelson ME, Tucker KL, Layne J, Johnson E, Nuernberger A, Castaneda C, Judge JO, Buchner D, Singh MF. A home-based nutrition intervention to increase consumption of fruits, vegetables, and calcium-rich foods in community dwelling elders. *J Am Dietetic Assoc* 2002;102:1421-1427.
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66. Wang G, Zheng ZJ, Heath G, Macera C, Pratt M, Buchner D. Economic burden of cardiovascular disease associated with excess body weight in U.S. adults. *Am J Prev Med* 2002;23:1-6.
65. Belza B, Steele BG, Hunziker J, Lakshminaryan S, Holt L, Buchner DM. Correlates of physical activity in chronic obstructive pulmonary disease. *Nursing Res* 2001;50:195-202.
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60. Lamb SE, Guralnik JM, Buchner DM, Ferrucci LM, Hochberg MC, Simonsick EM, Fried LP. Factors that modify the association between knee pain and mobility limitation in older women: the Women's Health and Aging Study. *Ann Rheum Dis* 2000;59:331-7. [PMID: 10784513][PMCID: PMC1753141]
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58. Campbell, AJ, Robertson, MC, Gardner MM, Norton RN, Buchner DM. Psychotropic medication withdrawal and a home-based exercise program to prevent falls: a randomized, controlled trial. *J Am Geriatr Soc* 1999;47:850-853.
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55. King AC, Rejeski WJ, Buchner DM. Physical activity interventions targeting older adults: a critical review and recommendations. *Am J Prev Med* 1998;15:316-333.
54. Merriam GR, Buchner DM, Prinz PN, Schwartz RS, Vitiello MV. Potential applications of GH secretagogos in the evaluation and treatment of the age-related decline in growth hormone secretion. *Endocrine* 1997;7:49-52.
53. Buchner DM. Preserving mobility in older adults. *West J Med* 1997; 167:258-264. [PMID: 9348757]



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1. Darfour-Oduro SA, Buchner D, Andrade JE, Grigsby-Toussaint DS. A comparative study of fruit and vegetable consumption and physical activity behavior patterns among adolescent girls and boys in 49 Low- and Middle-Income Countries.
2. Gay JL, Buchner DM, Erickson ML, Lauture A. Effect of short bouts of high intensity activity on glucose among adults with prediabetes: a pilot randomized crossover study. Submitted to PLOS ONE.
3. Gay JL, Buchner DM, Smith J. Objectively-measured occupational physical activity: an examination of compensation effects. Submitted to *Preventive Medicine Reports*.

### **In Preparation – Approved manuscript proposal at Women’s Health Initiative:**

Andrew Hua, Chair. Accelerometer-based prediction of fall risk in older women. (WHI Ms2758)

Andrew Hua, Chair. Do functional limitations and fear of falling explain lower levels of physical activity in older women who fall? (WHI Ms3029)

Andrew Hua, Chair. Identifying indicators of fall risk in older women from hip accelerometer raw data. (WHI Ms3311)

Chongzhi Di, Chair. Physical activity assessments: comparing biomarker and accelerometer measured energy expenditure among older women. (WHI Ms2600)

David Buchner, Chair. Estimating energy expenditure of walking in older women using accelerometers. (WHI Msxxxx)

David Buchner, Chair. Identifying patterns of accelerometer-measured physical activity in older women using functional data analysis. (WHI Ms2495)

David Buchner, Chair. The relationship of objectively measures physical activity to physical performance in older women. (WHI Ms2366)

Dori Rosenberg, Chair. Sedentary behaviors and falls in older women. (WHI Ms2680)

Karen Margolis, Chair. Antihypertensive treatment and falls in older women. (WHI Ms2673)

Michael LaMonte, Chair. Associations of accelerometer measured physical activity and sedentary behavior with total mortality in older women: Results from the OPACH Study. (WHI Ms3072)

Stephen Marshall, Chair. The relationship of self-reported falls with self-reported physical activity and use of fall prevention strategies. (WHI Ms2619)

Elsa Strotmeyer, Chair. The validation of self-reported fall injuries with phone interviews and Medicare claims. (WHI Ms3064)

Elsa Strotmeyer, Chair. Epidemiology of non-fracture fall injuries (WHI Ms3065).

Nicole Butera, Chair. Hot deck multiple imputation for handling missing accelerometer data. (WHI Ms 2716)

### **Other Published Scholarly Papers / Books / Conference Proceedings**

(Numbered in chronological order; listed in reverse chronological order)

54. Buchner DM. Waiting for Detailed Guidelines on Sedentary Behavior? Be Patient. Commentary posted in the American Heart Association Learning Library October 2016.

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## Research Grants and Other Funded Grants

### Funded Grants at University of Illinois:

**Statistical Methods for Analyzing Objectively Measured Physical Activity Data.** Role: Co-investigator. PI: Chongzhi Di (Fred Hutchinson Cancer Research Center). Dates: 7/1/2016 – 6/30/2021. Funding agency: NHLBI. Agency ID: 1 R01 HL130483-01. This grant will develop new methods for analysis of physical activity collected from wearable devices. Total costs: pending.

**Pilot Stair Climbing Study.** Role Co-investigator. PI: Jennifer Gay (University of Georgia). Dates: 1/1/2016-9/30/2016. Funding agency: University of Georgia Medical Partnership. This is a pilot study of the energy expenditure, metabolic effects, and intensity of stair climbing. Total costs: ~\$15,000.

**BAILA: Being Active, Increasing Latino's Healthy Aging.** Role: co-investigator. PI: David Marquez (University of Illinois Chicago). Dates: 9/1/2012 – 8/31/2106. Funding Agency: National Institute Nursing Research (NIH). Agency ID: 1 R01 NR13151-01. Total Costs: \$1,910,076 (requested). Description: This study is a randomized controlled trial of Latin dance in promoting health and reducing falls in older Latinos.

**Working Hard or Hardly Working: Is Occupational Physical Activity Associated With Adiposity?** Role: Primary Mentor and co-investigator. PI: Jennifer Gay (University of Georgia, Department of Health Promotion

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and Behavior). Funding Agency: American Heart Association. AHA Identification Number: 13CRP14370001. Dates: 1/1/2013 – 12/31/2015. Total Costs \$154,000. This project assesses occupational and non-occupational physical activity using accelerometers, and compares the association of adiposity with both light-intensity activity and moderate-to-vigorous activity.

**Illinois Transdisciplinary Obesity Prevention Program (I-TOPP).** Role: Co-PI. Funding Agency: USDA National Institute of Food and Agriculture. Award Number: 2011-67001-30101. Dates: 02/01/2011 thru 1/31/2016. Total Direct Costs: \$4,500,000. This grant provides transdisciplinary training in childhood obesity prevention for graduate students in six joint MPH--PhD degree programs at the University of Illinois.

**Objective Physical Activity and Cardiovascular Health in Women Aged 80 and Older (OPACH80).** Role: Co-PI of grant, and PI of the University of Illinois Urbana-Champaign Subaward. PI: Andrea LaCroix (University of Washington & Fred Hutchinson Cancer Research Center). Funding Agency: NHLBI. Agency ID: 5 RO1 HL105065. Dates: 9/15/2011 – 6/30/2015. Total Costs: ~\$5,193,000 over 4 years. This project adds objective measures of physical activity to parts of the cohort studies of the longstanding Women's Health Initiative.

**Illinois Early Childhood Activity Program (I-CAP): Assessing Physical Activity from circuits to Communities.** Role: Co-investigator. PI: Barbara Fiese (University of Illinois Urbana-Champaign). Total Costs: \$96,840. Dates: 7/1/2011-6/30/2013. Funding Agency: NCI. Agency ID: 5 R13 CA162844. This R13 grant provides support for a conferences and workgroups to advance the state of the art of objective measures of physical activity in young children.

**MIPARC: Multilevel Intervention for Physical Activity in Retirement Communities.** Role: consultant. PI: Jacqueline Kerr (University of California San Diego). Funding Agency: NHLBI. Agency ID: 5 RO1 HL098425. 4/1/2010 – 3/31/2014. Description: this project conducts a randomized trial of an intervention to promote physical activity in residents of retirement communities.

**UIUC Community Health Informatics Project.** Role: co-investigator. Dates: Jan 2010 to Dec 2010; Funding Agency: UIUC Public Engagement Office. Total Costs \$20,000. Description: this project enhanced public health surveillance in Champaign County, IL, and provided funding for MPH practicum experiences.

**Focal Point Proposal: The Built Environment and Health.** Role: collaborator. Dates: Aug 2010 to Jul 2011. Total Costs: \$15K. Funding Agency: Graduate College of University of Illinois. Description: this project developed an interdisciplinary seminar on the built environment and health.

#### **Grant Applications Pending at University of Illinois:**

None

#### **Funded Research Projects at CDC:**

**Measurement of the Value of Exercise (Project MOVE).** Role: Co-investigator; Dates: 1/15/2003-9/30/2006; Funding Agency: Robert Wood Johnson Foundation. Total Costs \$700,000. Description. This study estimated the cost-effectiveness of implementing community interventions to promote physical activity, and developed methods of Health Impact Assessment to allow communities to assess health impacts of implementing policy and environmental changes related to physical activity.



**Economic Evaluation of Walking Behavior in Sedentary Adults Age 50 and Older.** Role: Co-investigator. Dates: 10/1/2003 - 9/30/2007. Funding Agency: CDC. Total Costs ~\$500,000. Description. This study estimates the elasticity of demand for walking, by exploring the relationship between economic and other incentives to accumulate “aerobic steps” on a pedometer versus actual number of steps. This project is funded as a contract to Research Triangle Institute by CDC, with Eric Finklestein as PI for the contractor.

### **Previously Funded Research Projects @ University of Washington**

**Case Control Study of Footwear and Falls in Older Adults.** Role: Co-investigator; Dates: 9/15/97-8/31/00; Funding Agency: NIA; ID#: 1 R01 AG13793-01A1; Direct Costs 1997-98: \$230826; 1998-99: \$284,957; 1999-00: \$285,274; Description. A case control study of how shoe characteristics and surface features influence risk of falls in older adults, nested in a cohort study of risk factors for cognitive decline in non-demented community older adults.

**Objective Measurement of Daily Activity in COPD: A Pilot Study.** Role: Co-investigator and Mentor for the PI.; Dates: Jan 1, 1997 - Dec 31, 1998; Funding Agency: VA HSR&D Service; Funding Agency ID#: NRI #95-082. Direct Costs (1997-1998): \$216,000. Description. This pilot study assesses the potential usefulness of a physical activity monitor in determining adequacy of adherence to pulmonary rehabilitation. PI= Bonnie Steele, PhD, R.N.

**Seattle Housing Authority (SHA) Study.** Role: Principal Investigator; Dates: September 15, 1993 to September 14, 1998; Funding Agency: CDC; Funding Agency ID No.: R48/CCR002181; Direct Costs (1993-98): \$600,000. Description: This five year grant is part of the CDC grant that funds the UW Center for Health Promotion in Older Adults (HPOA). It studies how to implement exercise programs and nutritional interventions in low-income senior housing facilities.

**Senior Center Demonstration Project (WISE).** Role: Co-investigator; Dates: September 15, 1993 to September 14, 1998; Funding Agency: CDC; Funding Agency ID No.: R48/CCR002181; Direct Costs (1993-98): \$850,000. Description: This five year grant is part of the CDC grant that funds the UW Center for Health Promotion in Older Adults (HPOA). It is a randomized controlled trial of a multiple risk factor health promotion intervention in Seattle area senior centers. Project PI = Edward Wagner, M.D.

**Growth Factors and Exercise in Older Women.** Role: Co-Principal Investigator; Dates: July 1, 1992 - June 30, 1997; Funding Agency: NIA; Funding Agency ID No.: 1-RO1-AG10943-01; Direct Costs (1992-97): \$1,189,327. Description: This five year grant studies the individual and additive effects of human growth hormone releasing factor and exercise on physiologic and functional status outcomes in older women.

**Case Control Study of Older Adult Pedestrian Injury Sites.** Role: Co-investigator (PI=Tom Koepsell, M.D.); Dates: October 1, 1994 - Sept 30, 1998; Funding Agency: NIA; Funding Agency ID No.: AG10147-01A2; Direct Costs (1994-1998): \$1,375,382; Description: This case-control study will identify characteristics of intersections that increase the risk of a pedestrian-motor vehicle collision.

**Effectiveness of Geriatric Evaluation and Management.** Role: Co-Investigator; Dates: October 1, 1992 - September 30, 1995; Funding Agency: Department of Veterans Affairs, Cooperative Studies in Health Services; Funding Agency ID No.: CSHS #012; Direct Costs (1992-97): \$4,173,918; Description: This study was originally funded as a 6+ year multi-center study (10 sites) of the effectiveness of geriatric evaluation and management (GEM) units in the DVA system, but only 1.5 years of work will be funded. The PI's are Susan

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Hedrick (Seattle) and Larry Rubenstein (Sepulveda).

**Physical Functional Performance in Older Adults.** Role: Co-investigator; Dates: April 1, 1992 - March 31, 1998; Funding Agency: NIA; Funding Agency ID No.: IR29 AG10267-01; Direct Costs (1992-97): \$350,000; Description: This project is a First Award training grant, that provides salary support to the Principal Investigator, M. Elaine Cress, Ph.D. The grant will develop a new physical performance measure of physical functional status, and validate the measure in part by doing an exercise trial.

**FICSIT Collaborative Analysis.** Role: Principal Investigator; Dates: July 1, 1993 to June 30, 1994; Funding Agency: NIA; Funding Agency ID No.: 2U01 AG09095-04; Direct Costs (1993-94): \$78,268; Description: This one year grants completes collaborative analysis of the common data collected by the eight national FICSIT sites.

**Seattle FICSIT Study Analysis.** Role: Principal Investigator; Dates: July 1, 1993 to June 30, 1993; Funding Agency: NIA; Funding Agency ID No.: 3U01 AG09095-04S1; Direct Costs (1993-94): \$48,059; Description: This one year grants completes the data analysis for the Seattle FICSIT site.

**Health Status Effects of Endurance and Strength Training.** Role: Principal Investigator; Dates: April 1, 1990 - February, 28, 1993; Funding Agency: NIA; Funding Agency ID No.: U01/AG09095; Direct Costs (1990-93): \$829,455; Description: This project studied whether endurance and strength training increases the health status of older adults. It was funded as part of a special NIA initiative on research to prevent or reverse frail health.

**Effects of Movement During Exercise on Gait and Balance (Move-IT).** Role: Principal Investigator; Dates: October 1, 1990 - September 30, 1993; Funding Agency: Centers for Disease Control (CDC); Funding Agency ID No.: R48/CCR002181; Direct Costs (1990-93): \$725,000; Description: This project is funded as part of the UW grant for a Center for Health Promotion and Disease Prevention in the Elderly.

**Leg Strength and Falls in Older People.** Role: Principal Investigator; Dates: September 1, 1986 - August 30, 1989; Funding Agency: NIA; Funding Agency ID No.: ?; Direct Costs (1986-89): \$509,200; Description: This project studied the relationship between leg strength and falls, with particular emphasis on accumulation of the data necessary to design and implement a randomized controlled trial of exercise to prevent falls.

**Case Control Analysis of Hip Fractures.** Role: Principal Investigator; Dates: October 1, 1986 - September 30, 1990; Funding Agency: CDC; Funding Agency ID No.: R48/CCR002181; Direct Costs (1986-90): \$550,000; Description: This project was the principal epidemiologic study funded as part of the grant for the UW Center for Health Promotion and Disease in Older Adults, when the Center was first funded in 1986.

## Other Funding

Interagency Personnel Agreement with Centers for Disease Control and Prevention. Technical assistance provided to CDC's Division of Nutrition, Physical Activity, and Obesity. 20% effort. August 2015 – December 2016.

## Teaching

## Previously Funded Fellowship Training Grants @ University of Washington

**University of Washington Robert Wood Johnson Clinical Scholars Program.** Role: Program Faculty; Dates: July 1, 1995 - June 30, 1999; Funding Agency: Robert Wood Johnson Foundation; Funding Agency ID No.: RWJF #10026; Direct Costs (1995-1998): \$1,102,184; Co-PI's: Richard Deyo, M.D., Tom Koepsell, M.D.; Description: This grant provided the funds for the RWJ CSP fellowship program. Dr. Buchner was involved in both the teaching and research activities of the program from 1985-1999.

**NRSA for Research and Training in Primary Medical Care.** Role: Program Faculty; Dates: July 1, 1992 - June 30, 1997; Funding Agency: AHCPR; Direct costs (1992-97): \$1,416,994; PI: Eric Larson, M.D.; Description: This grant prepared primary care physicians for careers in research and academic medicine.

**Health Services Research Training Program.** Role: Program Faculty; Dates: July 1, 1994 - June 30, 1999; Funding Agency: AHCPR; Funding Agency ID: H500034; Direct Costs (1994-1999): \$1,238,574; PI: Ed Perrin, Ph.D.; Description: This grant provided health services research training for physicians and scientists pursuing a career in health services research.

**VA HSR&D Fellowship.** Role: Program Faculty; Dates: July 1, 1990-June 30, 1997; Funding Agency: Office of Academic Affairs, DVA; Annual direct costs: \$157,000; PI: Steve Fihn, M.D.; Description: This grant provided health services research training for physicians pursuing a career in academic medicine involving health services research.

**VA Ambulatory Care Fellowship.** Role: Program Faculty; Dates: July 1, 1991-June 30, 1997; Funding Agency: Office of Academic Affairs, DVA; Annual direct costs: \$157,000; PI: Steve Fihn, M.D.; Description: This grant provided health services research training for primary care physicians pursuing a career in academic medicine.

**VA HSR&D PhD Postdoctoral Fellowship.** Role: Program Faculty; Dates: July 1, 1993-June 30, 1997; Funding Agency: Office of Academic Affairs, DVA; Annual direct costs: \$87,000; PI: Steve Fihn, M.D.; Description: This grant provided health services research training for new Ph.D. scientists.

## Teaching and Student Advising (University of Illinois)

2016-2017

**CHLH 575** Chronic Disease Prevention (4 credit concentration course in MPH program)

**CHLH 577** Health Program Evaluation (4 credit concentration course in MPH program)

**Med School** Lecture on Physical Activity and Health to 4<sup>th</sup> year Medical Students

2015-2016 (on leave in fall term, 2015)

**CHLH 577** Health Program Evaluation (4 credit concentration course in MPH program)

**Med School** Lecture on Physical Activity and Health to 4<sup>th</sup> year Medical Students

2014-2015

**CHLH 575** Chronic Disease Prevention (4 credit concentration course in MPH program)

**CHLH 577** Health Program Evaluation (4 credit concentration course in MPH program)

April, 2017

**Med School** Lecture on Physical Activity and Health to 4<sup>th</sup> year Medical Students

#### 2013-2014

No teaching– on sabbatical leave

#### 2012-2013

**CHLH 575** Chronic Disease Prevention (4 credit concentration course in MPH program)  
**CHLH 577** Health Program Evaluation (4 credit concentration course in MPH program)  
**CHLH 589** MPH Capstone Experience (advised students in this 2 credit course in MPH program)  
**CHLH 593** Independent study for 1 MPH student on Program Evaluation  
**CHLH 404** Gerontology (1 guest lecture on compression of morbidity hypothesis)  
**ARCH 576** Architectural Design Seminar (1 guest lecture on obesity and environmental design)  
**I-TOPP** Seminar for I-TOPP graduate students

#### 2011-2012

**CHLH 594** Introduction to Public Health Practice (one credit seminar for MPH program.)  
**CHLH 575** Chronic Disease Prevention (4 credit concentration course in MPH program)  
**CHLH 577** Health Program Evaluation (4 credit concentration course in MPH program)  
**CHLH 589** MPH Capstone Experience (advised students in this 2 credit course in MPH program)  
**CHLH 404** Gerontology (1 guest lecture on compression of morbidity hypothesis)  
**CEES 598** Sustainable Urban Systems Aging. (Panel member / discussant in 1.5 hour class)  
**ARCH 576** Architectural Design Seminar (1 guest lecture on obesity and environmental design)  
**Med School** Lecture on Physical Activity and Health to 4<sup>th</sup> year Medical Students  
**I-TOPP** Seminar for I-TOPP graduate students on physical activity assessment

#### 2010 – 2011

**CHLH 594** Seminar: Themes in Public Health. (one credit seminar for MPH program.)  
**CHLH 594** Chronic Disease Prevention (4 credit concentration course in MPH program)  
**CHLH 594** Health Program Evaluation (4 credit concentration course in MPH program)  
**CHLH 594** MPH Capstone Experience (2 credit required course in MPH program)  
**Med School** Lecture on Physical Activity and Health to 4<sup>th</sup> year Medical Students  
**CHLH 594** Focal Point Seminar (Co-leader of a interdisciplinary seminar on Built Environment and Health supported by Graduate College, involving two MPH students, other graduate students, and 5 faculty)

#### 2009 – 2010

**CHLH 594** Seminar: Themes in Public Health. (one credit seminar required in the first semester of the MPH program.)  
**CHLH 594** Chronic Disease Prevention and Control. (four credit course required in the second semester of the MPH program)  
**CHLH 593** Independent Study (3 credit course for two MPH students as a substitute for a required MPH course the students had already taken as undergraduates)  
**KIN 150** Bioscience of Human Movement. Guest lecture.

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**I-Health** Guest lecture in first year introductory course in interdisciplinary health curriculum.

**2008-2009**

**CHLH 593** Independent Study on obesity for a Medical Scholars student

### **Student Advising**

Academic advisor for MPH students (2009-2016)

Member, dissertation committee for Tracy Flood (PhD in Kinesiology, 2011)

Member, dissertation committee for Bhibha Das (PhD in Kinesiology, 2011)

Member, dissertation committee for Bin Jiang (PhD in Landscape Architecture, 2013)

Member, dissertation committee for Michelle de Jimenez (PhD in Community Health, 2014)

Member, dissertation committee for Kedir Turi (PhD in Community Health, 2015)

Member, dissertation committee for Elena Boiarskaia (PhD in Kinesiology, 2016)

Member, dissertation committee for Marissa Siebel (PhD candidate in Community Health)

Member, dissertation committee for Sandra Darfour-Oduro (PhD in Community Health, 2016)

Chair, dissertation committee for Andrew Hua (Medical Scholars Program, PhD candidate in Kinesiology)

### **University Service (University of Illinois)**

2016 – 2017 Member, Senior Faculty Committee, Center for Health Aging and Disability, College of Applied Health Sciences.

2016 – 2017 Member, Executive Committee, College of Applied Health Sciences.

2016 – 2017 Member, Promotion and Tenure Committee, College of Applied Health Sciences.

2012 – 2014 Member, Planning Committee for an international conference: “Role of Research Universities in Addressing and Understanding Urban Challenges” (Chicago, November 2013). Conference sponsored by University of Illinois, University of Chicago, Northwestern University, and The Chicago Council of Global Affairs

2012 – 2013 Participant, Visioning Future Excellence (Chancellor Initiative)

2012 – 2013 Member, Faculty and Staff Well-Being Committee, UIUC Smoke Free Campus Initiative

2011 – 2013 Member, Search Committee, Computation and Genomic Medicine (Institute for Genomic Biology)

2011 – 2013 Member, Promotion and Tenure Committee, College of Applied Health Sciences

2011 – 2013 Member, Special Designations Faculty Committee, College of Applied Health Sciences

2010 – 2011 Member, College of Health Sciences Executive Committee

2011 --2013 Coordinator, Public Health Faculty Group, Department of Kinesiology & Community Health

2009 – 2013 Member, Advisory Committee, Department of Kinesiology & Community Health

2008 – 2012 Member, Faculty Excellence Review Committee, Campus-wide committee reporting to the Provost.

2011 – 2011 Member, Stewarding Excellence Committee for review of Beckman Institute and Institute of Genomic Biology (convened by Office of the Provost at UIUC).

2011 – 2011 Chair, Search Committee for Visiting Clinical Instructor in Community Health

2009 – 2011 Chair, Promotion and Tenure Committee, College of Applied Health Sciences

2009 – 2010 Chair, Search Committee, Department of Kinesiology and Committee Health (Assistant Professor in MPH program)

2009 – 2010 Member, Administrative Council of College of Applied Health Sciences

2009 – 2010 Member, Associate Heads Committee, Department of Kinesiology and Community Health

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- 2009 – 2010 Member, Campus-wide Health and Wellness Initiative Committee
- 2008 – 2009 Member, Promotion and Tenure Committee, Department of Kinesiology and Committee Health
- 2008 – 2009 Chair, Search Committee, Department of Kinesiology and Committee Health (Associate Professor/Full Professor Position in MPH program)
- 2008 – 2009 Chair, Search Committee, Department of Kinesiology and Committee Health (Assistant Professor Position in MPH program)

## **Selected Public Health Practice Activities, Professional Service, & Community Service**

- 2016-2017 Member, Physical Activity Guidelines Advisory Committee, Department of Health and Human Services
- 2014-2017 Member, Board of Trustees, American College of Sports Medicine
- 2017-present Member, Healthcare Committee, National Physical Activity Plan Alliance
- 2015-present Member, Executive Committee, National Physical Activity Plan Alliance
- 2013-present Member, Board of Directors, National Physical Activity Plan Alliance
- 2011-2017 Member, Board of Directors, National Physical Activity Society
- 2013-2016 Member, Healthcare Sector Panel, National Physical Activity Plan Alliance
- 2013-2015 Member, National Plan Congress Planning Committee, National Physical Activity Plan Alliance
- 2013-2015 Member, Planning Committee for workshop on linkage between public health training and exercise science training, American Kinesiology Association.
- 2012-present Member, Exercise is Medicine Aging Committee, American College of Sports Medicine
- 2010-present Member, Exercise is Medicine Clinical Practice Committee, American College of Sports Medicine
- 2010-2013 Member, Physical Activity and Measurement Council, International Society of Physical Activity and Health
- 2011-2013 Member, Science Board, President's Council on Fitness, Sport, Nutrition
- 2011-2013 Member, Statewide Pioneering Healthier Committees Team, Illinois (a committee supporting community-level interventions to reduce childhood obesity in Illinois)
- 2011-2013 Member, Enhanced Physical Education Task Force, Illinois Department of Health
- 2007-2013 Member, Coordinating Committee, National Physical Activity Plan (National Plan launched 3 May 2010).
- 1996-2014 Member, Steering Committee for the USC/CDC Physical Activity and Public Health Research Course
- 2007-2010 Member, ACSM/NIH Steering Committee for Joint Conference on Research in Physical Activity and Health.
- 2009-2011 Member, Illinois Public Health Association chronic disease advisory committee.
- 2009-2011 Member, World Health Organization Guideline Group on Physical Activity for Health.
- 2006-2011 Consultant to the National Institute on Aging (NIA) to create a second edition of *Exercise: A Guide from the National Institute on Aging*
- 2007-2008 Chair, Writing Group for the *2008 Physical Activity Guidelines for Americans*.
- 2004-2008 Member, National Park System Advisory Board, Committee on Health and Recreation
- 2001-2008 Member, Geriatric Measurement Advisory Panel, National Committee on Quality Assurance (NCQA).
- 2001-2008 Member, Public Health and Recreation Federal Task Force (task force was organized under a Memorandum of Understanding involving the Department of Health & Human Services, Department of the Interior, Department of the Army, Department of Transportation, and USDA.)

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- 2000-2008 Member, Active Aging Partnership (CDC, AARP, National Council on Aging, Robert Wood Johnson Foundation, American College of Sports Medicine, American Geriatric Society, and National Institute on Aging).
- 1999-2008 Ex-Officio Member, Leadership Team, Washington State Coalition to Promote Physical Activity
- 1996-2002 Advisor to EnhanceFitness (originally Lifetime Fitness) program. I co-designed and evaluated an exercise program for older adults in 1993-96. Senior Services of Seattle/King County decided to franchise and disseminate the program, originally under the name "Lifetime Fitness" and now under the name "EnhanceFitness." The program has won several awards. A list of the sites who have adopted the program is provided at: <http://www.projectenhance.org/pro/fitness-locations.html>.
- 2002-2004 Member, Academic Advisory Committee, Pfizer/AGS Junior Faculty Scholars Program
- 2002-2005 Member, American College of Sports Medicine, Committee on Best Practices for Physical Activity in Older Adults
- 1998 Advisor to the Washington State Department of Transportation Task Force (focus of task forces was to reduce pedestrian motor vehicle collisions).
- 1998-1999 Member, Advisory Committee, Washington State Department of Health, Preventive Block Grant Program
- 1998 Participant in Attorney General's Task Force advising Washington State Attorney General on Tobacco Policy and Control, and contributor to the report "A Comprehensive Tobacco Prevention and Control Plan for Washington State."
- 1998-1999 Member, Leadership Team, Washington State Coalition to Promote Physical Activity
- 1997-1999 Member, Washington State Department of Health Physical Activity Workgroup
- 1997 Article for *Northwest Prime Time* Newspaper on strength training in older adults.
- 1997 Consultant to Lifespan Project, Cal State Fullerton, which developed a fitness assessment for older adults.
- 1997 Presentations on fall injuries at Boise, Spokane, and Missoula as part of Northwest Geriatric Education Center outreach to WAMI region.
- 1997 Presentation on fall injuries at a meeting of the Central Region, Emergency Medical Services and Trauma Care Council
- 1997 Presentation at Southeast Senior Center, Seattle, on falls and osteoporosis.
- 1997 Provided draft to World Health Organization dealing with geriatric assessment policy.
- 1996-1999 Consultant to Washington State Department of Health on physical activity promotion in Washington State
- 1996 Presentation at Washington State Board of Health on physical activity and falls in older adults.
- 1996-1997 Consultant to the National Institute on Aging (NIA) to develop "Exercise: A Guide from the National Institute on Aging."
- 1996 Consultant to the American Academy of Orthopedic Surgeons (AAOS) on physical activity promotion in adults with orthopedic problems.
- 1996 Consultant to the American Medical Association (AMA) to develop a brochure to help physicians promote physical activity.
- 1994-1995 Consultant to PRO-West (Seattle) on hip fracture study.
- 1993 Article on exercise in older adults for *Prime Time* newspaper.
- 1992 Article on falls in older adults for *Prime Time* newspaper.
- 1991 Contribution to *The Brown University Long-Term Care Letter*, Vol 3, No. 15, August 14, 1991; Interviewed for an article on Strength training, mobility and falls.
- 1990-1991 Presentations on falls in older adults to Group Health Enrollees, Horizon House residents, and UW Retirement Association.
- 1988 Article on falls in older adults for Health Affairs report, University of Washington Retirement Office.

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- 1984 – 1986 Consultant, Division on Aging, State of Washington Department of Social & Health Services (provided input into implementation of Healthy Older People Program).
- 1984 – 1986 Consultant, Columbia Lutheran Home (provided assistance in evaluating a nursing home care plan).
- 1982 – 1984 Speaker, American Lung Association, (anti-smoking talks presented to Seattle School System).

## **Selected Invitations to Participate in National/International Conferences**

**Physical Activity and Public Health.** Invited speaker at the week-long research course. (Sponsored by CDC, Charleston SC, Sept 2017)

**Actions to Improve Physical Activity Surveillance in the United States.** Invited participant in a national meeting dealing with improving physical activity surveillance in the US (Sponsored by the Physical Activity and Health Innovation Collaborative of the Roundtable on Obesity Solutions, National Academy of Sciences, April 2017).

**Wearable Devices and the 24 hour Activity Cycle.** Invited participant at a meeting to discuss public health issues in using physical activity data from wearable devices (sponsored by Stanford University, April 2016).

**Cold Spring Harbor Laboratory.** Invited speaker on physical activity and aging a “think tank” meeting sponsored by CSHL (Banbury CT, March 2015)

**American Kinesiology Association Leadership Workshop.** Title = The intersection of physical activity and public health: opportunities for Kinesiology. Workshop on integrating public health curriculum into Kinesiology education programs. (Charlotte NC, January 2015).

**Office of Assistant Secretary for Health, DHHS.** Invited participant at a meeting to discuss topics related to a possible new release of Physical Activity Guidelines for Americans (Orlando, FL, May 2014).

**Meet the Professor Session, American College of Sports Medicine.** Invited to speak at roundtable session at ACSM where young professionals have an opportunity to obtain career advice from experienced scientists / academics (Orlando, FL, May 2014)

**High-level Regional Forum on A Life Course Approach to Promoting Physical Activity, Regional Office for the Eastern Mediterranean, World Health Organization.** Plenary presentation on the US National Physical Activity Plan (Dubai, United Arab Emirates, February 2014).

**American College of Sports Medicine.** Chair of Thematic Session on Exercise and Aging (Indianapolis, IN: May, 2013)

**Expert Roundtable: Physical Activity, Health, and Well-Being in Brazil.** Participant and facilitator (Champaign, IL; March 2013).

**4<sup>th</sup> International Congress on Physical Activity and Health.** Invited Distinguished Discussant in two sessions. (Sydney, Australia, October, 2012).

**8<sup>th</sup> World Congress on Active Ageing.** Invited Keynote presentation on physical activity guidelines (Glasgow, Scotland; August 2012)

**ACSM Annual Meeting.** Invited presentation on accelerometers and older adults as part of ACSM symposium on use of accelerometers to measure physical activity (Indianapolis, May, 2012)

**Economics of Physical Activity Consensus Workshop.** Invited presentation on physical inactivity (in abstentia due to illness) (Vancouver, BC, Canada; April 2011)

**4<sup>th</sup> Australian and New Zealand Falls Prevention Society Conference.** Invited keynote presentation on physical activity and prevention of falls (Dunedin, New Zealand; November, 2010)

**Physical Activity and Public Health Course.** Invited presentations on physical activity in older adults and on research designs. (Sponsored by CDC and the University of South Carolina Prevention Research Center)(Located either in Hilton Head, South Carolina or Park City, Utah; every September from 1995



through present)

- American College of Sports Medicine and Exercise is Medicine World Congress.** Invited presentation as part of symposium on Office-based Physical Activity Promotion (Baltimore; June, 2010).
- American Geriatrics Society, Geriatrics Review Syllabus.** Invited presentation on physical activity in older adults disseminated by audiotape (April, 2010).
- Center for Health Aging and Disability (CHAD) annual meeting.** Invited presentation on social determinants of health (Champaign, IL; April, 2010).
- AAHPERD annual meeting.** R.Tait McKenzie Memorial Lecture. (Indianapolis; March, 2010)
- Illinois Public Health Association Summit.** Invited presentation on chronic disease prevention (Springfield, IL; March 2010)
- Gerontological Society of America, Annual Meeting.** Invited presentation as part of Presidential Symposium on Prevention (November, 2009).
- National Meeting on Physical Activity Guidelines, United Kingdom.** Invited presentations on physical activity guidelines in older adults, and on the process for developing and disseminating physical activity guidelines in the USA.
- Osteoarthritis Summit (National Osteoarthritis Foundation and CDC).** Invited presentation on a public health national plan for osteoarthritis (Washington, DC: April, 2009).
- Carle Medical Center Grand Rounds.** Invited presentation on physical activity guidelines (Champaign, IL: March, 2009).
- VA National Center for Health Promotion and Disease Prevention (NCP).** Invited teleconference presentation on 2008 Physical Activity Guidelines for Americans (January, 2009).
- Joint NIH/ACSM meeting on Research in Physical Activity. Invited presentation on research gaps identified in the evidence review for the 2008 Physical Activity Guidelines for Americans (Bethesda MD; October, 2008)**
- Joint Commission on Sports Medicine and Science.** Invited keynote presentation on 2008 Physical Activity Guidelines for Americans (Kansas City, Mo; February 2009)
- 5<sup>th</sup> Annual Rural Public Health Institute (Illinois).** Invited presentation on obesity prevention (Effingham, IL; April 2009).
- Be Active Australia.** Invited keynote presentation on physical activity in older adults (Adelaide, Australia, Oct 2007)
- CDC/IUHPE International Physical Activity and Public Health Course.** Invited speaker on environmental and policy interventions to promote physical activity. (Sponsored by CDC and IUHPE; San Jose, Costa Rica; June 2005).
- Washington Coalition to Promote Physical Activity Annual Meeting.** Invited talk on environmental and policy approaches to promoting physical activity. (Seattle, WA; Dec, 2005 and April 2007)
- Evidence-Based Prevention.** Invited speaker on evidence-based physical activity programs in older adults (Sponsored by Agency for Health Research and Quality; Nov 2004 in Chicago IL; repeated Oct 2005 in Atlanta GA)
- Walking for Health: Measurement and Research Issues and Challenges.** Invited talk on public health approaches to promoting walking (Conference sponsored by American College of Sports Medicine and University of Illinois Urbana-Champaign; Urbana-Champaign, IL; Oct, 2005)
- Changing Nature of Musculo-Skeletal Disorder Risk.** Invited talk on physical activity, obesity, and injury risk in older adults (Conference sponsored by National Institute of Occupational Safety and Health; Seattle, WA; Sep 2005)
- Washington Recreation and Parks Association annual meeting.** Invited presentation on the role parks and recreation sector in promoting physical activity and health (Chelan, WA; March, 2005)
- Implementation of WHO Physical Activity Strategy.** Invited short presentation on CDC activities in promoting physical activity (sponsored by WHO and CDC). (Miami, FL; Dec 2004)

- Forest Service Region 6 Centennial Forum.** Invited speaker on recreational trends (sponsored by USDA Forest Service; Stevenson, WA; Nov, 2004)
- Second Annual Nathan W. Shock Symposium.** Invited speaker on physical activity (sponsored by the National Institute on Aging; Towson, MD; Sept 2004).
- YMCA Activate America Conference.** Invited talk on environmental and policy approaches to promoting physical activity in communities (Washington, DC; Sept 2004)
- Puijo Symposium: Physical Activity and Health: Gender Differences Across the Lifespan.** Invited speaker on physical activity and falls (Kuopio, Finland; June 2003).
- Creating Healthy, Active Communities.** Invited keynote presentation on launching the Washington State Plan on Physical Activity and Nutrition (Sponsored by Washington State Department of Health; April 2003).
- Physical Activity: Preventing Disablement in Older Adults.** Invited speaker who summarized major themes of the conference in the final presentation (Sponsored by Cooper Institute; Dallas, TX; Oct 2002)
- Communicating Physical Activity and Health Messages: Science into Practice.** Invited speaker on content of media messages regarding physical activity (Sponsored by CDC and Health Canada; Whistler, Canada; Dec, 2001)
- European Geriatric Society Annual Meeting.** Invited speaker on promoting physical activity in older adults (Paris; Aug 2001)
- Summer Institute on Aging Research** (sponsored by National Institute on Aging and by the Brookdale Foundation). Invited speaker on aging and exercise (Washington, DC: July 1998).
- CDC regional conference on public Health Approaches to Promoting Physical Activity.** Invited speaker on evaluation of public health interventions (Spokane, Washington; May, 1998).
- American Geriatric Society, Annual meeting 1998.** Invited speaker on prevention in older adults (Seattle, Washington; April 1998).
- Robert Wood Johnson Foundation Symposium on Physical Activity.** Invited speaker on promoting physical activity in older adults (Princeton, New Jersey; March 1998).
- Washington Coalition for Promotion of Physical Activity.** Invited speaker on physical activity (November, 1997).
- ACSM Physical Activity Research Conference.** Invited speaker on research priorities for physical activity in older adults (Dallas, Texas; October 1997).
- Rheumatology, Infectious Disease, & Immunology GER** (sponsored by the John A. Hartford Foundation). Invited chair of section on Osteoarthritis session)
- Summer Institute on Aging Research** (sponsored by National Institute on Aging and by the Brookdale Foundation). Invited speaker on aging and exercise (Washington, DC: July 1998).
- University of South Carolina** (sponsored by Byrnie Center on Aging). Invited speaker on models of frail health (Columbia, SC; June 1997).
- Istituto Nazionale Roposo E Cura Per Anziani** (National Institute for Research and Care on Aging). Invited Speaker at workshop: "Aging, Health and Home Environment." (Florence, Italy; March, 1997).
- CDC Course on Physical Activity and Public Health.** Coordinator for one day and invited Presentation on Exercise in Older Adults, and on Research Designs in Older Adult Exercise Trials (Charleston, South Carolina; September, 1996).
- Royal Australasian College of Physicians & New Zealand Geriatrics Society.** Invited speaker at annual meeting (Dunedin, NZ; September, 1996).
- RSL Visiting Professor, Australian Geriatrics Society.** Visiting Professorship involving one week of activities in association with Australian Geriatrics Society (Canberra, Australia; May, 1996).
- Falls Prevention Seminar.** Invited presentation (International Keynote Speaker) entitled: "An International Perspective of Falls Prevention." Workshop sponsored by Department of Health and Community Services, Victoria, Australia in conjunction with the International Injury Prevention Conference (Melbourne, Australia; February, 1996).

- Third International Conference on Injury Prevention and Control.** Presentation ("distinguished speaker") in symposium entitled: Aged Falls (Melbourne, Australia; February, 1996).
- NIH Consensus Development Conference on Physical Activity and Cardiovascular Health.** Invited Presentation on Physical Activity Interventions in Older Adults (Washington, D.C.; December 1995).
- University of Washington School of Public Health and Community Medicine 25th Anniversary Meeting.** Invited Presentation on Health Promotion in Older Adults (Seattle, Washington; September, 1995)
- CDC Course on Physical Activity and Public Health.** Coordinator for one day and invited Presentation on Exercise in Older Adults, and on Research Designs in Older Adult Exercise Trials (Charleston, South Carolina; September, 1995).
- University of Auckland, Department of Preventive Medicine.** Invited presentation on the results of the FICSIT trials (Auckland, New Zealand; March, 1995)
- National Institute on Aging, Council Meeting.** Invited presentation to the NIA Council on the results of the FICSIT trials. (Washington, D.C.; September, 1994).
- National Institute on Aging, Sarcopenia Workshop.** Invited discussant at a workshop on muscle loss with aging (Washington, D.C., September, 1994).
- National Association of Spinal Chord Nurses.** Invited presentation on how to apply for a research grant to a joint session of three societies interested in spinal chord injury. (Las Vegas, Nevada; September, 1994).
- International State of the Art Conference, "Geriatric Assessment Technology,"** sponsored by the I.A.G. European Region. Invited speaker on "Assessment of Gait, Balance, and Mobility" and "Assessment of Exercise: Abilities and Needs." (Florence, Italy; June, 1994).
- National Institute on Aging Workshop, "Physical Functional Independence in Older Persons."** Invited speaker on the need for large-scale exercise trials to show that exercise reduces risk of loss of independence in older adults (Washington, D.C.; January, 1994).
- Centers for Disease Control and Prevention (CDC), and American College of Sports Medicine (ACSM) sponsored work group** on Physical Activity Recommendations for Older Adults. The work group wrote a general background paper for the new physical activity guideline issued by CDC/ACSM, and a second background paper explicating the recommendation in older adults (Dallas, Texas; November, 1993).
- Chair, Abstract Review Committee** for Clinical Epidemiology, Annual meeting of Society for General Internal Medicine (Washington, D.C., May, 1994).
- Chair, Abstract Review Committee** for Falls and Immobility, Annual meeting of Gerontologic Society of America (New Orleans, November, 1993).
- HSR&D SOTA II Conference,** Department of Veterans Affairs. Participant in a conference designed to disseminate information about DVA data-bases (November, 1993; Washington, D.C.).
- Visiting Professor,** Center on Aging, Kansas University Medical Center (October, 1993; Kansas City, Kansas).
- HSR&D Post-Doctoral Education Workshop,** Department of Veterans Affairs. Participant in a conference about implementing a post-Ph.D. HSR&D fellowship program. (September, 1993; Durham, North Carolina).
- American College of Sports Medicine Scientific Session.** Invited Speaker on the Effects of Exercise on Functional Status in Older Adults (June, 1993; Seattle, Washington).
- National Institute on Aging Workshop,** Physical Performance Measures in Older Adults. Invited Speaker on Conceptualization of Measures (May, 1993; Boston, Massachusetts).
- American Association of Orthopedic Surgeons Workshop.** Invited speaker on Disease and Hip Fracture Risk (January, 1993; Chicago, Illinois).
- John K. Friesen Lecture Series in Gerontology,** Simon Fraser University. Invited speaker on Exercise and Frailty (November, 1992; Vancouver, Canada).
- Chair, HSR&D SOTA I Conference,** Department of Veterans Affairs. Chairman of a conference designed to disseminate information about community-based long-term care (September, 1992; Washington, D.C.).
- Presider, Scientific Session on Prevention and Health Promotion.** Annual Meeting of the Association of

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Health Services Research (June, 1992: Chicago, IL).

**European Congress of Gerontology.** Invited speaker on Exercise and Falls in a symposium on falls in older adults. (September, 1991; Madrid, Spain).

**Annual Meeting of the Gerontological Society of America.** Invited speaker on exercise and tertiary prevention. (November, 1990; Boston, MA).

**Presider, Scientific Session** on Falls and Injuries in Older Adults, 1990 Annual Meeting of the Gerontological Society of America (November, 1990; Boston, MA).

**Society for General Internal Medicine Workshop.** One of 3 faculty leading two 1.5 hour sessions on Injury control (May, 1990; Washington, D.C.).

**1990 Annual Meeting of the American Association of Physical Medicine and Rehabilitation.** Talk on use of statistical methods in rehabilitation research. (October, 1990; Phoenix, AZ).

**1989 Annual Meeting of the American Association of Physical Medicine and Rehabilitation.** Talk on use of statistical methods in rehabilitation research. (October, 1989; San Antonio, CA).

**Presider, Scientific Session on Geriatric Research,** Society of General Internal Medicine (May, 1989).

**National Institute on Aging Workshop,** "Reducing Frailty and Fall Related Injuries in Older Persons". Talk on potential health effects of strength interventions (September, 1989; Washington, D.C.).

**Conference on Injury in America.** Topical Table Discussion Group on Falls and Hip Fracture, Center for Disease Control, (May, 1987; Atlanta, Georgia).

## Participation in Peer Review

### Service on Study Sections

Reviewer, Medical Research Council, United Kingdom (Proposals dealing with promotion of physical activity)(January 2013)

Reviewer, Active Living Research, Phase 10 Funding Opportunity Announcement (funded by Robert Wood Johnson Foundation)(June, 2010)

Reviewer, Metabolic Disorders Steering Committee (MDSC) of The Biomarkers Consortium, a public private partnership of NIH, FDA, pharmaceutical industry, BIO, CMS, academia and the nonprofit sector, which is managed by the Foundation for the National Institutes of Health (October, 2009)

Reviewer, Health Research Council of New Zealand (June, 1997).

Member, NIH Community Prevention and Control Study Section (June, 1997).

Member, VA HSR&D Special Review Section (Gender Differences IIR's) (March, 1997).

Reviewer, Active Living Research National Project Office (funding by Robert Wood Johnson Foundation) (June 2010)

Member, VA HSR&D Review Section for Investigator Initiated Research Proposals (IIR's) (January, 1996).

Chairman, NIH Biomechanical Ad Hoc Study Section (November, 1991; December, 1992).

Member, NIH Behavioral Medicine Study Section (February, 1992).

Member, NIH Biochemical Endocrinology Ad Hoc Study Section (July, 1990).

Member, NIH Special Review Section, Small Business Innovation Research (June 1987, October 1987, July 1988, March 1989, November 1995).