

### **Contact Information**

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### **Education**

1987-1990 Pre-Exercise Science, State University of New York at Buffalo (Buffalo, NY)  
1990-1992 BS Physical Education (Concentration in Exercise Physiology), East Stroudsburg University of Pennsylvania (East Stroudsburg, PA), Cum Laude  
1992-1994 MS Physical Education (Concentration in Exercise Physiology), Ball State University (Muncie, IN)  
1994-1997 PhD Education (Concentration in Exercise Science), University of Tennessee at Knoxville (Knoxville, TN)

### **Professional Positions**

1992-1994 Graduate Research Assistant, Human Performance Laboratory, Ball State University  
1994-1997 Graduate Teaching Associate, Exercise Science Unit, University of Tennessee  
1997-1998 Assistant Professor, Department of Physical Education, Southern Illinois University at Carbondale  
1998 Adjunct Lecturer, Department of Exercise and Sport Sciences, University of Florida  
1998-2002 Postdoctoral Research Associate, Department of Medicine, Division of Endocrinology and Metabolism, University of Florida  
2002-2003 Research Assistant Professor, Department of Medicine, Division of Endocrinology and Metabolism, University of Florida  
2003-2008 Assistant Professor, Department of Epidemiology and Interdisciplinary Graduate Program in Nutritional Sciences, University of Washington,  
2008-2015 Associate Professor, Department of Epidemiology and Interdisciplinary Graduate Program in Nutritional Sciences, University of Washington  
2009-2015 Member of the Interdisciplinary Group for the Interdisciplinary PhD Program in Urban Design and Planning, Department of Urban Design and Planning, University of Washington  
2012-2015 Graduate Program Coordinator (GPC), Interdisciplinary Graduate Program in Nutritional Sciences, University of Washington  
2013-2015 Director, University of Washington Twin Registry, Department of Epidemiology, University of Washington  
2015-pres Professor (with tenure), Department of Nutrition and Exercise Physiology, Elson S. Floyd College of Medicine, Washington State University Health Sciences Spokane

- 2015-pres Chair, Department of Nutrition and Exercise Physiology, Washington State University Health Sciences Spokane
- 2015-pres Director, Washington State Twin Registry, Washington State University Health Sciences Spokane
- 2015-pres Affiliate Professor, Department of Epidemiology and Interdisciplinary Graduate Program in Nutritional Sciences, University of Washington

**Scholarships, Fellowships, Honors, and Awards**

- 1991 Phi Epsilon Kappa (East Stroudsburg University)
- 1997 Excellence in Exercise Science Award (University of Tennessee-Knoxville)
- 1999 American Heart Association Postdoctoral Fellowship (University of Florida)
- 2002 NIH Research Scientist Development Award (University of Florida)
- 2016 Provost’s Leadership Academy (Washington State University)

**Professional Activities**

**Memberships in Professional Organizations and Certifications**

- 1991-pres Adult CPR Certification
- 1992-pres American College of Sports Medicine
- 2000-pres American Diabetes Association
- 2001-pres American College of Sports Medicine, Registered Clinical Exercise Physiologist (RCEP, Certification #177)
- 2012-pres Society for Epidemiologic Research
- 2012-pres International Society for Twin Studies (ISTS)

**Manuscript Reviewer**

- 1994-pres Invited reviewer for numerous journals, including *Med Sci Sports Exer*, *Arch Ped & Adolesc Med*, *JAMA*, *Pediatrics*, *Twin Res Hum Genet*, *SIG CHI 2015 (Seoul, Korea conference proceedings)*, and many others

**Committees, Councils, Boards, Invited Expert Panels, and Study Sections**

- 2005 Fitness Steering Committee – member (Seattle Public Schools)
- 2007 NIH Scientific Review Panel – ad hoc member (ZRG1 HOP-D 50-S, Diet and Physical Activity Assessment), June 14-15
- 2009 Objective Measurement of Physical Activity: Best Practices and Future Directions, invited expert, NIH Main Campus, Natcher Conference Center, July 20-21
- 2011 NIH Scientific Review Panel – ad hoc member (ZRG1 PSE-C (04) M, Population Sciences and Epidemiology IRG), June 28-29
- 2014 NIH Scientific Review Panel – ad-hoc member (Neurological, Aging, and Musculoskeletal Epidemiology (NAME) Study Section), October 9-10
- 2014-2017 NIH Scientific Review Panel – ad hoc member, Time Sensitive Obesity Policy Reviews, 10/23/14 (ZDK1-GRB-1-J4; 2 applications), 02/23/15 (ZDK1-GRB-1-M5; 1 application), 10/23/17 (ZDK1-GRB-1-J4; 2 applications)
- 2014-2015 NIH (NHGRI) PhenX Toolkit – invited expert for obesity and adiposity working group

- 2016 Wellcome Trust, Biomedical Resources Grant Reviewer – invited peer reviewer for Biomedical Resources Grant (April cycle)
- 2016 NIH Scientific Review Panel – member, Molecular Transducers of Physical Activity Clinical Centers (ZRG1-BDCN-B-51), July 11
- 2019 NIH Scientific Review Panel – ad hoc member, Community Influences on Health Behavior (CIHB) Study Section, February 7-8, September 26-27
- 2020 NIH Scientific Review Panel – ad hoc member, Eunice Kennedy Shriver National Institute of Child Health & Human Development, Health, Behavior, and Context Subcommittee (CHHD-M-2), June 8
- 2020-2024 NIH Scientific Review Panel – standing member, Community Influences on Health Behavior (CIHB) Study Section, July 01, 2020 – June 30, 2024

### **Institutional Affiliations**

- 2003-2015 Affiliate Investigator, Clinical Nutrition Research Unit, University of Washington
- 2003-2015 Affiliate Investigator, Diabetes Endocrinology Research Center, University of Washington
- 2003-2015 Affiliate Scientist, Health Promotion Research Center, University of Washington
- 2006-2015 Investigator, Center for Clinical & Epidemiological Research, University of Washington
- 2015-pres Investigator, IREACH (Initiative for Research and Education to Advance Community Health) Washington State University Health Sciences Spokane

### **Summary of Scholarly Productivity (to-date)**

- 137 published scholarly works including 98 peer-reviewed research articles
- Google Scholar h-index = 39; i10-index = 73
- \$29,263,485 in total costs obtained from grants having a direct writing contribution (PI, co-PI, or co-Investigator); \$6,400,035 in total costs obtained from grants as PI or co-PI

### **Bibliography**

#### **Peer-reviewed Research Articles**

\* Indicates role as co-mentor for primary author.

† Indicates role as mentor for primary author.

1. Del Corral P, Mahon AD, **Duncan GE**, Howe CA, Craig BW. The effects of exercise on serum and salivary cortisol in male children. *Med Sci Sports Exerc* 1994; 26:1297-1301.
2. **Duncan GE**, Mahon AD, Howe CA, Del Corral P. Plateau in oxygen consumption at maximal exercise in male children. *Ped Exerc Sci* 1996; 8:77-86.
3. **Duncan GE**, Mahon AD, Gay JA, Sherwood JJ. Physiological and perceptual responses to graded treadmill and cycle exercise in male children. *Ped Exerc Sci* 1996; 8:251-258.
4. Bassett DR, Jr, Ainsworth BE, Leggett SR, Mathien CA, Main JA, Hunter DC, **Duncan GE**. Accuracy of five electronic pedometers for measuring distance walked. *Med Sci Sports Exerc* 1996; 28:1071-1077.
5. Mahon AD, Del Corral P, Howe CA, **Duncan GE**, Ray ML. Physiological correlates of 3-kilometer running performance in male children. *Int J Sports Med* 1996; 17:580-584.

6. **Duncan GE**, Howley ET, Johnson BN. Applicability of VO<sub>2</sub>max criteria: discontinuous vs. continuous protocols. *Med Sci Sports Exerc* 1997; 29:273-278.
7. Tanaka H, West KA, **Duncan GE**, Bassett DR, Jr. Changes in plasma tryptophan / branched chain amino acid ratio in response to training volume variation. *Int J Sports Med* 1997; 18:270-275.
8. Bassett DR, Jr, Vachon JA, Kirkland AO, Howley ET, **Duncan GE**, Johnson KR. Energy cost of stair climbing and descending on the college alumnus questionnaire. *Med Sci Sports Exerc* 1997; 29:1250-1254.
9. Mahon AD, **Duncan GE**, Howe CA, Del Corral P. Blood lactate and perceived exertion relative to ventilatory threshold: boys vs. men. *Med Sci Sports Exerc* 1997; 29:1332-1337.
10. **Duncan GE**, Howley ET. Metabolic and perceptual responses to short-term cycle training in children. *Ped Exerc Sci* 1998; 10:110-122.
11. **Duncan GE**, Howley ET. Substrate metabolism during exercise in children and the “crossover concept”. *Ped Exerc Sci* 1999; 11:12-21.
12. **Duncan GE**, Sydeman SJ, Perri MG, Limacher MC, Martin AD. Can sedentary adults accurately recall the intensity of their physical activity? *Prev Med* 2001; 33:18-26.
13. **Duncan GE**, Hutson AD, Stacpoole PW. QUICKI does not accurately reflect changes in insulin sensitivity with exercise training. *J Clin Endocrinol Metab* 2001; 86:4115-4119.
14. **Duncan GE**, Hutson AD, Perri MG, Eckel RH, Stacpoole PW. Exercise training, without weight loss, increases insulin sensitivity and postheparin plasma lipase activity in previously sedentary adults. *Diabetes Care* 2003; 26:557-562.
15. **Duncan GE**, Anton SD, Newton RL, Jr., Perri MG. Comparison of perceived health to physiological measures of health in black and white women. *Prev Med* 2003; 36:624-628.
16. \*Fuehrlein BS, Rutenberg MS, Silver JN, Warren MW, Theriaque DW, **Duncan GE**, Stacpoole PW, Brantly ML. Differential metabolic effects of saturated versus polyunsaturated fats in ketogenic diets. *J Clin Endocrinol Metab* 2004; 89:1641-1645.
17. **Duncan GE**, Perkins LA, Theriaque DW, Neiberger RE, Stacpoole PW. Dichloroacetate therapy attenuates the blood lactate response to submaximal exercise in patients with defects in mitochondrial energy metabolism. *J Clin Endocrinol Metab* 2004; 89:1733-1738.
18. **Duncan GE**, Li SM, Zhou XH A. Prevalence and trends of a metabolic syndrome phenotype among US adolescents, 1999-2000. *Diabetes Care* 2004; 27:2438-2443.
19. **Duncan GE**, Perri MG, Anton SD, Limacher MC, Martin AD, Lowenthal DL, Arning E, Bottiglieri T, Stacpoole PW. Effects of exercise on emerging and traditional cardiovascular risk factors. *Prev Med* 2004; 39:894-902.
20. **Duncan GE**, Li SM, Zhou XH. Age and kidney function are the primary correlates of fasting plasma total homocysteine levels in non-diabetic and diabetic adults. Results from the 1999-2002 National Health and Nutrition Examination Survey. *Nutr Metab (Lond)* 2005; 2:13. PMID: PMC1180469
21. **Duncan GE**, Li SM, Zhou XH. Cardiovascular fitness among U.S. adults: NHANES 1999-2000 and 2001-2002. *Med Sci Sports Exerc* 2005; 37:1324-1328.
22. **Duncan GE**, Anton SD, Sydeman SJ, Newton RL, Jr, Corsica JA, Durning PE, Ketterson TU, Martin AD, Limacher MC, Perri MG. Prescribing exercise at varied levels of intensity and frequency: a randomized trial. *Arch Int Med* 2005; 165:2362-2369.
23. †Sanders LF, **Duncan GE**. Population based reference standards for cardiovascular fitness among U.S. adults: NHANES 1999-2000 and 2001-2002. *Med Sci Sports Exerc* 2006; 38:701-707.

24. **Duncan GE.** Prevalence of diabetes and impaired fasting glucose among U.S. adolescents: National Health and Nutrition Examination Survey, 1999-2002. *Arch Ped Adolesc Med* 2006; 160:523-528.
25. Beresford SAA, Locke E, Bishop S, West B, McGregor BA, Bruemmer B, **Duncan GE**, Thompson B. Worksite study promoting activity and changes in eating (PACE): design and baseline results. *Obesity* 2007; 15(Suppl 1):4S-15S.
26. **Duncan GE**, Goldberg J, Noonan C, Moudon AV, Hurvitz P, Buchwald D. Unique environmental effects on physical activity participation: A twin study. *PLoS One* 2008; 3(4): e2019. PMID: PMC2291197
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29. Lester J, Hartung C, Pina L, Libby R, Borriello G, and **Duncan G.** Validated caloric expenditure estimation using a single body-worn sensor. In *Proceedings of the 11<sup>th</sup> International Conference on Ubiquitous Computing* (Orlando, Florida, USA, September 30 - October 03, 2009). Ubicomp '09. ACM, New York, NY, 225-234.
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34. **Duncan GE.** The "fit but fat" concept revisited: population-based estimates using NHANES. *Int J Behav Nutr Phys Act* 2010; 7:47. PMID: PMC2885314
35. †Supplee JD, **Duncan GE**, Bruemmer B, Goldberg J, Wen Y, Henderson JA. Soda intake and osteoporosis risk in post-menopausal American Indian women. *Public Health Nutr* 2011; 14:1900-1906. PMID: PMC4374544
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38. †O'Connell M, Buchwald DS, **Duncan GE**. Food access and cost in American Indian communities in Washington State. *J Am Diet Assoc* 2011; 111:1375-1379. PMID: PMC3164540
39. Intille SS, Lester J, Sallis JF, **Duncan G**. New horizons in sensor development. *Med Sci Sports Exerc* 2012; 44(No. 1S):S24-S31. PMID: PMC3245518
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48. Moudon AV, Drewnowski A, **Duncan GE**, Hurvitz PM, Saelens BE, Scharnhorst E. Characterizing the food environment: Pitfalls and future directions. *Public Health Nutr* 2013; 16:1238-1243. PMID: PMC3975130
49. \*Enriquez E, **Duncan GE**, Schur E. Age at dieting onset, body mass index, and dieting practices: A twin study. *Appetite* 2013; 71:301-306. PMID: PMC3913472
50. \*Cash SW, **Duncan GE**, Beresford SA, McTiernan A, Patrick DL. Increases in physical activity may affect quality of life differently in men and women. *Qual Life Res* 2013; 22:2381-2388. PMID: PMC3760977
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59. **Duncan GE**, Cash SW, Horn EE, Turkheimer E. Quasi-causal associations of physical activity and neighborhood walkability with body mass index: a twin study. *Prev Med* 2015; 70:90-95. PMID: PMC4274205
60. †Cohen-Cline H, Turkheimer E, **Duncan GE**. Access to green space, physical activity and mental health: a twin study. *J Epidemiol Community Health* 2015; 69:523-529. PMID: PMC4430417
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63. †Cohen-Cline H, †Lau R, Moudon AV, Turkheimer E, **Duncan GE**. Associations between fast-food consumption and body mass index: A cross-sectional study in adult twins. *Twin Res Hum Genet* 2015; 18:375-382. PMID: PMC4560337
64. Silventoinen K, Jelenkovic A, Sund R, et al. The CODATwins project: The cohort description of Collaborative project of Development of Anthropometrical measures in Twins to study macro-environmental variation in genetic and environmental effects on anthropometric traits. *Twin Res Hum Genet* 2015; 18:348-360. PMID: PMC4696543
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69. \*McLaury KC, Blue Bird Jernigan V, Johnson DB, Buchwald D, **Duncan G**. Variation in WIC cash-value voucher redemption among American Indian reservation communities in Washington State. *J Hunger Environ Nutr* 2016; 11:254-262. PMID: PMC4957973
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75. Strachan E, **Duncan G**, Horn E, Turkheimer E. Neighborhood deprivation and depression in adult twins: genetics and gene×environment interaction. *Psychol Med* 2017; 47:627-638. PMID: PMC5303704
76. Bogl LH, Jelenkovic A, Vuoksimaa E, et al. Does the sex of one's co-twin affect height and BMI in adulthood? A study of dizygotic adult twins from 31 cohorts. *Biol Sex Differ* 2017; 8:14. PMID: PMC5408365
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78. Silventoinen K, Jelenkovic A, Sund R, et al. Differences in genetic and environmental variation in adult body mass index by sex, age, time period and region: an individual-based pooled analysis of 40 twin cohorts. *Am J Clin Nutr* 2017; 106:457-466. PMID: PMC5525120
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80. Silventoinen K, Jelenkovic A, Latvala A, et al. Education in twins and their parents across birth cohorts over 100 years: an individual-level pooled analysis of 42 twin cohorts. *Twin Res Hum Genet* 2017; 20:395-405. PMID: PMC5969906
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84. Cook DJ, **Duncan G**, Sprint G, Fritz R. Using smart city technology to make healthcare smarter. *Proc IEEE Inst Electr Electron Eng* 2018; 106:708-722. PMID: PMC5881605
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96. Rhew IC, Fleming CB, Tsang S, Horn E, Kosterman R, **Duncan GE**. Neighborhood deprivation moderates shared and unique environmental influences on hazardous drinking: Findings from a cross-sectional co-twin study. *Subst Use Misuse* 2020; 55:1625-1632.
97. †Liechty A, Tsang S, Turkheimer E, **Duncan GE**. Association Between Low Back Pain and Body Mass Index in Adult Twins: An analysis of monozygotic and dizygotic twins of the Washington State Twin Registry. *Spine J* 2020; *Online ahead of print*.
98. Avery AR, Turkheimer E, Tsang S, **Duncan GE**. Psychometric and classification properties of the peas in a pod questionnaire. *Twin Res Hum Genet* 2020; *In Press*.

### **Other Published Scholarly Works (proceedings, policy reports, technical reports, invited topical reviews, book reviews, book chapters, editorials, letters to the editor)**

1. **Duncan GE**, Hutson AD, Stacpoole PW. Response to M.J. Quon, QUICKI is not a useful and accurate index of insulin sensitivity following exercise training. *J Clin Endocrinol Metab* 2002; 87:950-951.
2. **Duncan GE**. Exercise, fitness, and cardiovascular disease risk in type 2 diabetes and the metabolic syndrome. *Current Diabetes Reports* 2006; 6:29-35.
3. Soares-Miranda L, Sattelmair J, Chaves P, **Duncan GE**, Siscovick D, Stein PK, Mozaffarian D. Author's reply to O Monfredi, H Zhang, MR Boyett. Physical activity and heart rate variability in older adults: The Cardiovascular Health Study. *Circulation* 2015; 131:e349-e350.

### **Funding History**

#### **Funded Projects as Principal or Co-Investigator (having a direct writing contribution)**

1. Application of the crossover concept in children. **GE Duncan**, Principal Investigator, American College of Sports Medicine Foundation Doctoral Student Research Grant, \$2,474 total costs, role: PI, 05/01/96-04/30/97.
2. Dose response effect of exercise on insulin sensitivity and plasma lipase activity. **GE Duncan**, Principal Investigator, American Heart Association, Florida/Puerto Rico Affiliate Postdoctoral Fellowship (9920174V), \$73,500 total costs, role: PI, 07/01/99-06/30/01.
3. Dose response effect of exercise on insulin sensitivity and plasma lipase activity. **GE Duncan**, Principal Investigator, American College of Sports Medicine Foundation Polar Research Grant, \$10,000 total costs, role: PI, 07/01/99-06/30/01.
4. Kinetics of human homocysteine metabolism. **GE Duncan**, Principal Investigator, K01DK61999, \$347,562 total costs, role: PI, 08/01/02-06/30/07.
5. Reducing obesity at the workplace: a randomized trial. SAA Beresford, Principal Investigator, R01HL079491, \$4,076,873 total costs, role: co-Investigator, 09/30/04-06/30/11.
6. Preventing obesity in low income working adults. SAA Beresford, Principal Investigator, U54CA116847 (sub-project 5), \$561,368 total costs, role: co-Investigator, 09/01/08-08/31/10.
7. Fitness, fatness, and breast cancer biomarkers in overweight adolescent girls. **GE Duncan**, Principal Investigator, U54CA116847 (Developmental Core), \$48,092 total costs, role: PI, 09/01/06-08/31/07.
8. Ubiquitous computing for the measurement of physical activity. **GE Duncan**, Principal Investigator, R21AG028719, \$314,892 total costs, role: PI, 04/01/07-03/31/11.
9. Evaluation of the Lewis County healthy children project. **GE Duncan**, Principal Investigator, FA21713/A23548 (UW Subcontract with Centralia College, C Raff, PI), \$90,000 total costs, role: PI, 06/01/07-05/31/10.
10. BALANCE: bioengineering approaches for lifestyle activity and nutrition continuous engagement. **GE Duncan**, Principal Investigator, R21AG032232, \$647,522 total costs, role: PI, 09/30/07-07/31/11.
11. Building a unique national community-based twin repository. D Buchwald, Principal Investigator, RC2HL103416, \$7,654,551 total costs, role: co-Investigator, 09/30/09-07/31/12.

12. Rural town walkability: measuring the effect of the built environment. M Doescher, Principal Investigator, R01HL103478, \$1,954,325 total costs, role: co-Investigator, 08/01/10 – 04/30/14.
13. Collaborative research infrastructure to transform school health. D Johnson, Principal Investigator, RC4HD066837, \$999,425 total costs, role: co-Investigator, 09/07/10 – 09/30/13.
14. TWINStudy of environment, lifestyle behaviors, and health. **GE Duncan**, Principal Investigator, R01AG042176, \$2,153,562 total costs, role: PI, 09/30/11 – 05/31/16.
15. Validation and application of portable particulate device in the UW Twin Registry. E Seto and **GE Duncan**, Co-Principal Investigators, R21ES024715, \$387,389 total costs, role: Co-PI, 03/01/15 – 08/31/17.
16. Community Health Analytics Initiative. B Shirazi, Principal Investigator, WSU Grand Challenges research initiative (Offices of Provost and Research), \$998,158 total costs, role: co-Investigator, 07/01/16 – 06/30/17.
17. Research Collaborative for Addressing Health Disparities. P Whitney, Principal Investigator, WSU Grand Challenges research initiative (Offices of Provost and Research), \$4,127,320 total costs, role: co-Investigator, 07/01/16 – 06/30/21.
18. Nutritional Genomics and Smart Foods. J Roll, Principal Investigator, WSU Grand Challenges research initiative (Offices of Provost and Research), \$2,491,430 total costs, role: co-Investigator, 07/01/16 – 06/30/21.
19. Developing Data on Environmental Drivers of Behavioral Risk and Inequalities in Health. P Monsivais and **GE Duncan**, Co-Principal Investigators, HERC (Health Equity Research Collaborative) Seed Grant, \$2,345 total costs (plus 1 semester HERC Graduate Student Fellow Award), role: co-PI, 07/01/17 – 06/30/18.
20. Validation and application of portable particulate device in the UW Twin Registry. E Seto and **GE Duncan**, Co-Principal Investigators, R33ES024715, \$1,533,109 total costs, role: Co-PI, 09/01/17 – 08/31/20.
21. TWINStudy of environment, lifestyle behaviors, and health. **GE Duncan**, Principal Investigator, R56AG042176, \$689,664 total costs, role: PI, 09/30/17 – 08/31/19.
22. Gene Expression and the Microbiome in Twins (GEMsTone). **GE Duncan**, Principal Investigator, Nutrigenomics and Smart Foods Pilot Grant, \$75,000 total costs, role: PI, 11/01/17 – 10/31/19.
23. Impact of dairy by-product on gut microbiota and hydration status in physically active individuals. D Jiwan and **GE Duncan**, Co-Principal Investigators, WSU Office of Commercialization Project Grant, \$24,924 total costs, role: Co-PI, 11/01/17 – 03/01/20.

### **Consultancies (paid and unpaid)**

1. Cognitive effects of aerobic exercise for older adults with impaired glucose tolerance: a controlled trial. Laura Baker, Principal Investigator. American Diabetes Association, Clinical Research Award, 07/01/04-12/31/08, role: unpaid consultant.
2. Physical activity in the Cambodian community: an exploratory study. Victoria Taylor, Principal Investigator. R21HL094337, 09/30/09-07/31/11, role: paid consultant.
3. Alaska workplace solutions research project. Dedra Buchwald, Principal Investigator. R01CA126620, 09/01/11 – 08/30/12, role: unpaid member of data safety monitoring board.

## Conferences, Lectures & Symposiums

### Oral or Poster Presentations (published where indicated)

\* Indicates role as co-mentor for primary author.

† Indicates role as mentor for primary author.

1. Del Corral P, Mahon AD, **Duncan GE**, Howe CA, Craig BW. Serum and salivary cortisol responses in male children performing aerobic exercise. *Ped Exerc Sci* 1993; 5(4):406. Joint meeting of the North American Society for Pediatric Exercise Medicine and European Group for Pediatric Work Physiology, Aliston, Ontario, Canada, September 18-22, 1993. Paper presented by AD Mahon.
2. **Duncan GE**, Mahon AD, Howe CA, Del Corral P. Plateau in oxygen consumption at maximal exercise in male children. Midwest Chapter of ACSM Winter Conference, Boyne Mountain, Boyne Falls, Michigan, February 2-4, 1994. Paper presented by GE Duncan.
3. **Duncan GE**, Mahon AD, Howe CA, Del Corral P. Plateau in oxygen consumption at maximal exercise in male children. *Med Sci Sports Exerc* 1994; 26:S209. American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 1-4, 1994. Poster presented by GE Duncan.
4. Mahon AD, **Duncan GE**, Howe CA, Del Corral P. Metabolic responses in male children and adults during exercise relative to ventilatory threshold. *Ped Exerc Sci* 1995; 7(1):106. North American Society for Pediatric Exercise Medicine, Pittsburgh, Pennsylvania, August 12-14, 1994. Paper presented by AD Mahon.
5. **Duncan GE**, Mahon AD, Gay JA, Sherwood JJ. Physiological and perceptual responses to graded treadmill and cycle exercise in male children. *Ped Exerc Sci* 1995; 7(2):217-218. North American Society for Pediatric Exercise Medicine, Pittsburgh, Pennsylvania, August 12-14, 1994. Paper presented by GE Duncan.
6. Howley ET, **Duncan GE**. Energy Balance vs. Fat Balance: The Role of Exercise Southeast Chapter of ACSM Winter Conference, Chattanooga, Tennessee, February 1-3, 1996. Tutorial presented by ET Howley and GE Duncan.
7. Bassett DR, Jr, Leggett SR, Mathien CA, Main JA, Hunter DC, **Duncan GE**, Ainsworth BE. Accuracy of five electronic pedometers for measuring distance walked. *Med Sci Sports Exerc* 1996; 28:S52. American College of Sports Medicine Annual Meeting, Cincinnati, Ohio, May 29-June 1, 1996. Paper presented by DR Bassett.
8. **Duncan GE**, Howley ET, Johnson BN. Applicability of VO<sub>2</sub>max criteria: discontinuous vs. continuous protocols. *Med Sci Sports Exerc* 1996; 28:S120. American College of Sports Medicine Annual Meeting, Cincinnati, Ohio, May 29-June 1, 1996. Paper presented by GE Duncan.
9. Bassett DR, Jr, Vachon JA, Kirkland AO, Howley ET, **Duncan GE**, Johnson KR. Energy cost of stair climbing and descending on the college alumnus questionnaire. *Med Sci Sports Exerc* 1997; 29:S187. American College of Sports Medicine Annual Meeting, Denver, Colorado, May 27-31, 1997. Paper presented by DR Bassett.
10. Howley ET, **Duncan GE**, Del Corral P. Optimum intensity of exercise for fat oxidation. *Med Sci Sports Exerc* 1997; 29:S199. American College of Sports Medicine Annual Meeting, Denver, Colorado, May 27-31, 1997. Poster presented by ET Howley.

11. **Duncan GE**, Howley ET. Metabolic and perceptual responses to short-term cycle training in children. *Med Sci Sports Exerc* 1997; 29:S168. American College of Sports Medicine Annual Meeting, Denver, Colorado, May 27-31, 1997. Poster presented by GE Duncan.
12. **Duncan GE**, Sydeman SJ, Perri MG, Ernst M, Limacher MC, Martin AD. The seven-day physical activity recall overestimates exercise intensity and energy expenditure. *Circulation* 1999; 100(S1):I-823. American Heart Association, 72<sup>nd</sup> Scientific Sessions, Atlanta, Georgia, November 7-10, 1999. Poster presented by GE Duncan.
13. Beacham AO, de Hoyos D, **Duncan GE**, Sydeman SJ, Limacher M, Martin D, Lowenthal D, Perri MG. Obesity and perceived exertion during exercise. *Ann Behav Med* 2000; 22(Supplement):S157. Society of Behavioral Medicine's 21<sup>st</sup> Annual Meeting, Nashville, Tennessee, April 5-8, 2000. Poster presented by AO Beacham.
14. **Duncan GE**, Anton SD, Newton RL, Perri MG. Perceived health impact of weight and fitness in black and white women. *Ann Behav Med* 2001; 23(2001 Supplement):S017. Proceedings of the Society of Behavioral Medicine's 22<sup>nd</sup> Annual Meeting, Seattle, Washington, April 4-7, 2001. Poster presented by SD Anton.
15. \*Hurt CB, Messina SA, Moorjani AV, Salerno JA, Wu EU, **Duncan GE**, Theriaque D, Hutson AD, Stacpoole PW. Functional relationship between insulin sensitivity and lactate threshold during graded exercise. *Clinical Research* 2001, Washington, D.C., March 8-11, 2001. Poster presented by SA Messina.
16. **Duncan GE**, Hutson AD, Stacpoole PW. QUICKI does not accurately reflect changes in insulin sensitivity with exercise training. *Diabetes* 2001; 50(Supplement 2):A222. American Diabetes Association, 61<sup>st</sup> Annual Sessions, Philadelphia, Pennsylvania, June 22-26, 2001. Poster presented by GE Duncan.
17. Corsica JA, Perri MG, Wolff GE, Park C, **Duncan GE**, Martin AD, Limacher MC, Kipersztok S. Greater body fat percentage, but not BMI, predicts poorer adherence to a 6-month exercise program. *Ann Behav Med* 2002; 24(Supplement):S118. Society of Behavioral Medicine's 23<sup>rd</sup> Annual Meeting, Washington, D.C., April 3-6, 2002. Poster presented by JA Corsica.
18. **Duncan GE**, Hutson AD, Perri MG, Eckel RH, Stacpoole PW. Sex differences among measures of glucose and lipid metabolism in sedentary adults. *Clinical Research* 2002, Baltimore, Maryland, April 10-13, 2002. Poster presented by GE Duncan.
19. Martin D, Perri M, Limacher M, **Duncan G**, Ketterson T, Sydeman S, Anton S, Yang M. Dose response of exercise intensity and frequency on fitness and CAD risk factors. *Med Sci Sports Exerc* 2002; 33(Supplement):S69. American College of Sports Medicine, 49<sup>th</sup> Annual Meeting, St. Louis, Missouri, May 29-June 1, 2002. Poster presented by D Martin.
20. **Duncan GE**, Hutson AD, Perri MG, Eckel RH, Stacpoole PW. Exercise training, without weight loss, increases insulin sensitivity and post-heparin plasma lipase activity in previously sedentary adults. *Diabetes* 2002; 51(Supplement 2):A61. American Diabetes Association, 62<sup>nd</sup> Annual Sessions, San Francisco, California, June 13-18, 2002. Paper presented by GE Duncan.
21. \*Fuehrlein B, Rutenberg M, Silver J, Warren M, **Duncan G**, Brantly M. Differential metabolic effects of saturated versus polyunsaturated fats in ketogenic diets. *J Invest Med* 2003; 51:S374. *Clinical Research* 2003, Baltimore, Maryland, March 13-16, 2003. Poster presented by B Fuehrlein.

22. Perri MG, Martin AD, **Duncan GE**, Limacher MC, Anton SD, Sydeman SJ, Corsica JA, Newton RL, Ketterson TU. How much exercise is needed to improve cardiorespiratory fitness? Society of Behavioral Medicine's 24<sup>th</sup> Annual Meeting, Salt Lake City, Utah, March 19-22, 2003. Poster presented by MG Perri.
23. **Duncan GE**, Perkins LA, Theriaque DW, Neiberger RE, Stacpoole PW. Dichloroacetate improves parameters of aerobic function in patients with defects in mitochondrial energy metabolism. *Med Sci Sports Exerc* 2003; 35(Supplement): S97. American College of Sports Medicine, 50<sup>th</sup> Annual Meeting, San Francisco, California, May 28-31, 2003. Poster presented by GE Duncan.
24. **Duncan GE**, Goldberg J, Noonan C, Moudon AV, Hurvitz P, Buchwald D. Influence of unique environmental factors on physical activity participation: role of the built environment. *Twin Res Human Genet* 2007; 10(Supplement): S29. 12<sup>th</sup> International Congress on Twin Studies, Ghent, Belgium, June 7-10, 2007. Paper presented by GE Duncan.
25. Denning T, Andrew A, Chaudhri R, Hartung C, Lester J, Borriello G, **Duncan GE**. BALANCE: towards a usable pervasive wellness application with accurate activity inference. International Conference on Mobile Systems, Applications and Services, 10<sup>th</sup> Workshop on Mobile Computing Systems and Applications, Santa Cruz, California, February 23-24, 2009. Paper presented by J Lester.
26. Baker L, Craft S, Frank L, Fishel M, Plymate S, McTiernan A, **Duncan G**, Cholerton B. Cognitive effects of aerobic exercise for older adults with impaired glucose tolerance: a controlled trial. *J Diabetes* 2009; 1(Supplement): A72. Paper presented by L Baker.
27. **Duncan GE**, Bogart A. "The "fit but fat" concept revisited: population-based estimates using NHANES. *Med Sci Sports Exerc* 2009; 41(Supplement): S229. American College of Sports Medicine's 56<sup>th</sup> Annual Meeting, Seattle, Washington, May 27-30, 2009. Poster presented by GE Duncan.
28. †Hughes DC, Andrew A, Chaudhri R, Denning T, Hartung C, Hurvitz P, Lester J, Beresford S, Borriello G, Bruemmer B, Moudon AV, **Duncan GE**. BALANCE: bioengineering approaches for lifestyle activity and nutrition continuous engagement. *Med Sci Sports Exerc* 2009; 41(Supplement): S275. American College of Sports Medicine's 56<sup>th</sup> Annual Meeting, Seattle, Washington, May 27-30, 2009. Poster presented by DC Hughes.
29. Hartung C, Chaudhri R, Goh J, Lester J, Migotsky S, Borriello G, **Duncan GE**. Validity and reliability of a multi-sensor board for measuring common physical activities. *Med Sci Sports Exerc* 2009; 41(Supplement): S609. American College of Sports Medicine's 56<sup>th</sup> Annual Meeting, Seattle, Washington, May 27-30, 2009. Poster presented by GE Duncan.
30. †Sanders LF, **Duncan GE**, Grenier E, Deuster PA. Attenuation of exertional muscle damage with a nutritional supplement. *Med Sci Sports Exerc* 2009; 41(Supplement): S578. American College of Sports Medicine's 56<sup>th</sup> Annual Meeting, Seattle, Washington, May 27-30, 2009. Poster presented by LF Sanders.
31. Beresford SAA, **Duncan GE**, McTiernan A, Henderson JA, Xiao L, Tamers S, McGregor B. Snacking and soda consumption are associated with weight for height in adults: The Move and Moderate in Balance (MOVE 'M) worksite randomized trial. International Society for Behavioral Nutrition and Physical Activity Annual Meeting, Lisbon, Portugal, June 2009. Paper presented by SAA Beresford.
32. Lester J, Hartung G, **Duncan G**, Borriello G. Validated caloric expenditure estimation using a single body-worn sensor. *UbiComp* 2009, 11<sup>th</sup> International Conference on Ubiquitous Computing, Orlando, Florida, June 6 - 7, 2009. Paper presented by J Lester.

33. Tamers SL, Beresford S, Bishop S, McGregor B, Bruemmer B, **Duncan G**, Thompson B. Is there an association between worksite social support, diet and body mass index? *Ann Behav Med* 2010; 39(Supplement):S88. Society of Behavioral Medicine's 31<sup>st</sup> Annual Meeting, Seattle, Washington, April 7-10, 2010. Paper presented by SL Tamers.
34. Baker LD, Frank LL, Foster-Schubert K, Green PS, Wilkinson CW, McTiernan A, Plymate SR, Fishel MA, Watson GS, Cholerton BA, **Duncan GE**, Mehta PD, Craft S. Aerobic exercise enhances executive function and alters plasma biomarkers in older adults at increased risk of progression to Alzheimer's disease. *Alzheimer's Association International Conference on Alzheimer's Disease* 2010, Honolulu, Hawaii, July 10-15, 2010. Paper presented by LD Baker.
35. \*Fretts AM, Beresford SA, **Duncan GE**, McKnight B, Eilat-Adar S, Mete M, Howard BV, Siscovick DS. Heart Healthy Diet and incident impaired fasting glucose and type 2 diabetes in American Indians: The Strong Heart Family Study. *American Heart Association's Nutrition, Physical Activity and Metabolism/Cardiovascular Disease Epidemiology and Prevention 2011 Scientific Sessions*, Atlanta, Georgia, March 22-25, 2011. Poster presented by AM Fretts.
36. \*Fretts AM, **Duncan GE**, McKnight B, Beresford SA, Eilat-Adar S, Calhoun D, Howard BV, Siscovick DS. Pedometer-determined steps/day and incident impaired fasting glucose and type 2 diabetes in American Indians: The Strong Heart Family Study. *American Heart Association's Nutrition, Physical Activity and Metabolism/Cardiovascular Disease Epidemiology and Prevention 2011 Scientific Sessions*, Atlanta, Georgia, March 22-25, 2011. Paper presented by AM Fretts.
37. \*Fretts AM, Beresford SA, **Duncan GE**, McKnight B, Eilat-Adar S, Mete M, Howard BV, Siscovick DS. Saturated fat and processed meat consumption and incident impaired fasting glucose and type 2 diabetes in American Indians: The Strong Heart Family Study. *American Heart Association's Nutrition, Physical Activity and Metabolism/Cardiovascular Disease Epidemiology and Prevention 2011 Scientific Sessions*, Atlanta, Georgia, March 22-25, 2011. Poster presented by AM Fretts.
38. \*Espinoza N, Littman A, **Duncan G**, Thompson B. The validity of a physical activity questionnaire in rural Hispanic diabetics. *Society for Advancement of Hispanics/Chicanos and Native Americans in Science National Conference* 2012, Seattle, Washington, October 10-14, 2012. Paper presented by N Espinoza.
39. Baker LD, Craft S, Cholerton B, Wilkinson CW, Foster-Schubert K, McTiernan A, Williamson JD, Sink KM, **Duncan GE**. Aerobic exercise effects on cognition in at-risk adult: role of insulin sensitivity and APOE-E4. *Alzheimer's Dement* 2013; 9(Supplement):P690. *Alzheimer's Association International Conference (AAIC) 2013*, Boston, Massachusetts, July 13-18, 2013. Paper presented by LD Baker.
40. Hurvitz PM, Moudon AV, Saelens BE, Kang B, **Duncan GE**. Emerging technologies for assessing physical activity behaviors in space and time. *Association of American Geographers (AAG) Annual Meeting* 2014, Tampa, Florida, April 8-12, 2014. Poster presented by PM Hurvitz.
41. **Duncan GE**, Hurvitz PM, Moudon AV. TWINStudy of environment, lifestyle behaviors, and health. Invited symposium speaker for session titled "Charting new opportunities: Social environment & health research, organized by B. Deeds (NIH/NIDA) and W. Ellwood (NIH/OD). *Association of American Geographers (AAG) Annual Meeting* 2014, Tampa, Florida, April 8-12, 2014. Paper presented by GE Duncan.

42. Watson NF, Horn E, Buchwald D, Turkheimer E, Vitiello MV, Pack AI, **Duncan GE**. Sleep duration and social deprivation in twins. *Sleep* 2014; 37(Supplement):A77. SLEEP 2014, the 28<sup>th</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC (APSS), Minneapolis, Minnesota, May 31-June 4, 2014. Paper presented by NF Watson.
43. **Duncan G**, Horn E, Turkheimer E. Behavioral and environmental modification of the genetic influence on body mass index: A twin study. *Behav Genet* 2014; 44:656. BGA 2014, the 44<sup>th</sup> Annual Meeting of the Behavior Genetics Association, Charlottesville, Virginia, June 18–21, 2014. Paper presented by GE Duncan.
44. **Duncan GE**, Cohen-Cline H, Lau R, Vernez-Moudon A, Horn EE, Turkheimer E. Fast food consumption and body mass index: A twin study. *Twin Res Hum Genet* 2014; 17(Special Issue 5):430-431. TWINS 2014: The Joint 3<sup>rd</sup> World Congress on Twin Pregnancy (A Global Perspective) & 15<sup>th</sup> Congress of the International Society of Twin Studies (ISTS), Budapest, Hungary, November 16-19, 2014. Paper presented by GE Duncan.
45. Watson NF, Horn E, Buchwald D, Turkheimer E, Vitiello MV, Pack AI, **Duncan GE**. Social deprivation and sleep symptoms in twins. *Sleep* 2015; 38(Supplement):A243-244. SLEEP 2015, the 29<sup>th</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC (APSS), Seattle, Washington, June 6-10, 2015. Paper presented by NF Watson.
46. Cohen-Cline H, **Duncan GE**. Stress as a mediator in the neighborhood deprivation-depression association: a twin study. *SER* 2015, the 48<sup>th</sup> Annual Meeting of the Society for Epidemiologic Research, Denver, Colorado, June 16-19, 2015. Paper presented by HC-Cline.
47. **Duncan GE**, Hurvitz P, Moudon AV. Use of twin research to untangle relationships among the built environment, health behaviors, and obesity. Conference on Geospatial Approaches to Cancer Control and Population Sciences, Bethesda, Maryland, September 12-14, 2016. Paper presented by GE Duncan.
48. **Duncan GE**, Avery A, Hurvitz PM, Moudon AV, Tsang S, Turkheimer, E. Walkability, health behaviors, and body mass index in twins. *Med Sci Sports Exerc* 2018; 50(Supplement): S391. American College of Sports Medicine’s 65<sup>th</sup> Annual Meeting, Minneapolis, Minnesota, May 29-June 2, 2018. Thematic poster presented by GE Duncan.
49. McCall CA, Turkheimer E, Tsang S, Avery A, **Duncan GE**, Watson NF. Sleep and resilient coping: a twin study. *Sleep* 2018; 41(Supplement):A69-70. SLEEP 2018, the 32<sup>nd</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC, Baltimore, Maryland, June 2-6, 2018. Paper presented by CA McCall.
50. **Duncan G**, Avery A, Hurvitz P, Vernez-Moudon A, Tsang S, Turkheimer E. TWINStudy of environment, lifestyle behaviors, and health. *Behav Genet* 2018; 48:468. BGA 2018, the 48<sup>th</sup> Annual Meeting of the Behavior Genetics Association, Boston, Massachusetts, June 20–23, 2018. Poster presented by GE Duncan.
51. Avery A, **Duncan G**. Type 2 diabetes in the Washington State Twin Registry. *Behav Genet* 2018; 48:456. BGA 2018, 48<sup>th</sup> Annual Meeting of the Behavior Genetics Association, Boston, Massachusetts, June 20-23, 2018. Poster presented by A Avery.
52. Turkheimer E, Tsang S, Dinescu D, **Duncan G**. Multiple processes underlie twin correlations for skewed BMI. *Behav Genet* 2018; 48:516-517. BGA 2018, 48<sup>th</sup> Annual Meeting of the Behavior Genetics Association, Boston, Massachusetts, June 20-23, 2018. Paper presented by E Turkheimer.



53. Feng Y, Hunter DJ, **Duncan G**, Ferriera P. The impact of neighbourhood environment on low back pain and arthritis: A twin study. *Osteoarthritis and Cartilage* 2020; 28:S408. OARSI 2020 World Congress, Vienna, Italy, April 30 – May 03, 2020. Note that this conference was cancelled due to COVID-19, however, accepted abstracts were still published.

### **Invited Oral Presentations, Seminars, and Televised Interviews**

1. Lifestyle Interventions and Type 2 Diabetes. Lion's Club of Alachua County Monthly Meeting, Gainesville, FL, February 2002.
2. Lifestyle Aspects in Type 2 Diabetes. Joint Adult/Pediatric Endocrinology Research Dinner, University of Florida, Gainesville, FL, July 2002.
3. Fitness, Fatness, and the Metabolic Syndrome. Nutrition and Physical Activity Affinity Group (NPAAG), University of Washington, Seattle, WA, April 2004.
4. Fitness, Fatness, and type 2 Diabetes in Youth. Seattle Diabetes Expo 2004, Seahawks Exhibition Center, Seattle, WA, May 2004.
5. Health Fair & Community Forum on Combating Childhood Obesity, Rainier Community Center, Seattle, WA, September 2004.
6. Learning Curve: Fit to Learn, KCTS Connects, KCTS Seattle Public Television, aired February 24, 2005.
7. Fitness, Fatness, and the Metabolic Syndrome in Youth. Georgia Prevention Institute, Medical College of Georgia, Augusta, GA, March 2005.
8. Fitness, Fatness, and the Metabolic Syndrome. CNRU/DERC Annual Retreat, University of Washington, Seattle, WA, March 2005.
9. Exercise Training Studies in Sedentary Adults. Exercise Physiology Study Group (Department of Medicine, Division of Pulmonary Medicine), University of Washington, Seattle, WA, December 2005.
10. Physical Activity and Physical Fitness. Seminar for "Get on Your Feet Week", Northwest Indian College, Bellingham, WA, May 2007.
11. Causes and Consequences of a Sedentary Lifestyle. General Clinical Research Center Annual Symposium, University of Washington, Seattle, WA, September 2007.
12. Pro Walk/Pro Bike 08: Transforming Communities. Panel presentation and discussion titled "Active Travel and the Environment". Participants included Anne Vernez Moudon (chair), Brian Saelens, Glen Duncan, and Phil Hurvitz. Seattle, WA, September 2008.
13. Merging Disciplines to Improve the Quality and Scientific Power of Data Collected in the Behavioral and Social Sciences. Urban Design and Planning Emerging Research Agendas Seminar Series, March 2009.
14. Twin Studies to Investigate the Influence of the Built Environment on Health. Institute for Public Health Genetics Spring 2011 Interactive Seminar (PHG 580), University of Washington, Seattle, WA, May 2011.
15. Twin Studies to Investigate the Influence of the Built Environment on Health. The Food Day Symposium, University of Washington, Seattle, WA, October 2011.
16. UW SPH Close Up. Close Up March 2013: Glen Duncan. School of Public Health, University of Washington, Seattle, WA, March 2013.  
[http://sph.washington.edu/news/closeup/profile.asp?content\\_ID=1932](http://sph.washington.edu/news/closeup/profile.asp?content_ID=1932)
17. GIS Lightning Talk (twin research). The 3<sup>rd</sup> Annual University of Washington GIS Day, University of Washington, Seattle, WA, November 2013.

18. The University of Washington Twin Registry: Using twins in Studies of Environment, Behaviors, and Health. Center for Studies in Demography and Ecology (CSDE) Autumn 2014 Seminar Series, University of Washington, Seattle, WA, October 2014.
19. NIH Grant Funding: The Good, the Bad and the Ugly. College of Applied Sciences and Technology NIH Workshop, Ball State University, Muncie, IN, February 2015.
20. Using Twins in Studies of Environmental Exposures, Behaviors, and Health. Human Performance Laboratory Visiting Scholar, Ball State University, Muncie, IN, February 2015.
21. Twin research: Innovations and opportunities for psychoneuroimmunology research. PNIRS: PsychoNeuroImmunology Research Society 2015, the 22<sup>nd</sup> Annual PNIRS Scientific Meeting, Seattle, Washington, June 3-6, 2015. Frontiers in PNI Lecture (Keynote oral presentation by D Buchwald and GE Duncan).
22. Socio-ecological Model of Health. Washington State University – Health Sciences Spokane Annual Health Fair, Spokane, WA, October 12, 2016.
23. The Socio-ecological Model of Health. Spokane Club Wellness Challenge Week Presentation, Spokane, WA, January 17, 2017.

### **Teaching History**

#### **Summary of Formal Course Instruction, 1994-2004**

University of Tennessee, Laboratory Instructor for ES 480 (*Physiology of Exercise*), ES 414 (*Fitness Testing and Exercise Prescription*), and ES 567 (*Exercise Testing and Prescription*), 15-20 students per section, 100% responsibility, 1994-97

Southern Illinois University at Carbondale, Course Instructor for PE 101 (*Current Concepts of Physical Fitness*), PE 303 (*Kinesiology*), PE 304 (*Mechanical Basis of Human Movement*), PE 320 (*Physiological Basis of Human Movement*), and PE 380 (*Aerobics - Theory and Application of Aerobic Activity*), 15-20 students per course, 100% responsibility, 1997-98

University of Florida, Course Instructor for PET 3351 (*Physiology of Exercise and Training*), 60 students, 100% responsibility, Fall Semester 1998

#### **Formal Course Instruction at the University of Washington (2004 – 2015)**

<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>Quarter</b>	<b>Students</b>	<b>Responsibility</b>
NUTR 303	3	Neighborhood Nutrition	Win 2011	37	33%
NUTR 405	3	Physical Activity in Health & Disease	Spr 2006	16	100%
			Spr 2007	45	100%
			Spr 2009	67	100%
			Spr 2010	116	100%
			Spr 2011	114	100%
			Spr 2012	180	100%
			Spr 2013	177	100%
			Spr 2014	178	100%
NUTR 500	1	Graduate Seminar	Spr 2015	176	100%
			Spr 2004	25	100%

			Spr 2005	23	100%
			Aut 2005	17	100%
			Win 2006	18	100%
			Spr 2006	21	100%
			Win 2007	29	100%
			Aut 2012	17	100%
			Spr 2013	17	100%
NUTR 525	3	Evaluation of Nutrition Status	Aut 2004	11	100%
NUTR 529	3	Nutrition Research Design	Win 2005	4	50%
			Win 2006	7	100%
			Aut 2007	11	100%
			Aut 2008	2	100%
			Aut 2009	8	100%
			Aut 2010	7	100%
			Aut 2011	31	100%
			Aut 2012	38	100%
			Aut 2013	31	100%
			Aut 2014	31	100%
NUTR 539	1	Journal Club	Aut 2004	5	100%
			Aut 2005	4	100%
			Aut 2006	5	100%

**Formal Course Instruction at Washington State University (2016 – pres)**

Course	Credits	Title	Semester	Students	Responsibility
NEP 479	3	Nutrition & Exercise Practicum I	Fall 2016	28	50%
NEP 482	3	Nutrition & Exercise Practicum II	Spring 2017	24	50%
NEP 520	3	Research Methods in Nutrition & Exercise Physiology	Spring 2017	19	100%
NEP 495	3	Inter-professional Capstone in Nutrition & Exercise Physiology	Spring 2018	23	100%
NEP 489	3	Internship and Professional Development Seminar	Fall 2019	22	50%

MED FMS 502	1	Foundations of Medical Sciences II	Winter 2019	7	100% (small group facilitator)
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### **Guest Lectures and Clinical Teaching**

Carbohydrate and fat usage after aerobic training in children. Clinical & Health Psychology Teaching Conference, University of Florida, Department of Clinical & Health Psychology, Dec. 1998

Exercise science in pediatric medicine. Pediatric Teaching Conference, University of Florida, Department of Medicine, Oct. 2001

Kinetics of homocysteine metabolism in Type 2 Diabetes. Endocrinology Fellowship Journal Club, University of Florida, Department of Medicine, Sept. 2002

Kinetics of homocysteine metabolism in Type 2 Diabetes. NUTR 500 (*Graduate Seminar*), University of Washington, Nutritional Sciences Program, Oct. 2002

Application of exercise testing and prescription in endocrinology. Endocrinology Fellowship Journal Club, University of Florida, Department of Medicine, Apr. 2003

Clinical research at the University of Washington and Duncan research program. NUTR 500 (*Graduate Seminar*), University of Washington, Nutritional Sciences Program, Autumn Qrts., 2003-2013

Exercise metabolism. NUTR 520 (*Energy, Carbohydrate, and Protein Metabolism*), University of Washington, Nutritional Sciences Program, Autumn Qrt. 2004, Winter Qrt. 2006

Nutrition and exercise. NUTR 300 (*Nutrition for Today*), University of Washington, Nutritional Sciences Program, Autumn Qrt. 2005

Exercise and chronic disease. NUTR 562 (*Nutrition and Chronic Disease*), University of Washington, Nutritional Sciences Program, Spring Qrts., 2005-2009

Ubiquitous computing to measure activity and diets. NUTR 500 (*Graduate Seminar*), University of Washington, Nutritional Sciences Program, Winter Qrt., 2010

Assessing physical activity; Walkability; and Case Study (3 separate lectures). NUTR 303 (*Neighborhood Nutrition*), University of Washington, Nutritional Sciences Program, Winter Qrt., 2011

Physical activity and exercise. HSERV 100 (*Personal and Public Health*), University of Washington, Department of Health Services, Spring Qrt., 2012

Using twins in studies of environment, behaviors, and health. BIO A 483 (*Human Genetics, Disease, and Culture*), Department of Anthropology, Spring Qrt., 2015

An ecological framework for studying influences on lifestyle behaviors and health. Psych 486 / CptS 486 / CptS 580 (*Gerontechnology II*), Washington State University, School of Electrical Engineering and Computer Science, Spring semester, 2016

Using Twins in Studies of Environmental Exposures, Behaviors, and Health. CE 580 Seminar, Washington State University, Pullman, WA, October 14, 2016.

Nutrition and Physical Activity in the Medical School Curriculum. Explorations: Healthy Lifestyle, Healthy Learning. Explorations Week Seminar, Washington State University, Elson S. Floyd College of Medicine, Spokane, WA, August 31, 2017.

## Formal Mentoring

### *PhD Committees*

<b>Student</b>	<b>Role</b>	<b>Title</b>	<b>Status</b>
Leslee Sanders (Nutrition)	Chair	Attenuation of muscle damage with a nutritional supplement	Graduated, Spring 2007
Amanda Fretts (Epidemiology)	Member	Lifestyle and incident diabetes in American Indians: the Strong Heart Family Study	Graduated, Spring 2011
Cassy Robinson-Cohen (Epidemiology)	Member	Physical activity and kidney function in chronic kidney disease	Graduated, Summer 2012
Jorming Goh (Nutrition)	Member	Mitochondrial-targeted catalase (mCAT), physical activity and the tumor microenvironment in a mouse model of spontaneous metastatic breast cancer	Graduated, Autumn 2012
Hannah Cohen-Cline (Epidemiology)	Chair	Social environment and depression: A twin study	Graduated, Autumn 2015
Stephanie E King (School of Biological Sciences)	Member	The epigenetic molecular basis of metabolic syndrome	Graduated, Spring 2019

### *MS/MPH Committees*

<b>Student</b>	<b>Role</b>	<b>Title</b>	<b>Status</b>
Christine Chen Jensen (Epidemiology)	Chair	Development of a predictive model for insulin sensitivity using readily available clinical information	Graduated, Spring 2005
Acacia Larson (Nutrition)	Member	ClickIt! to reduce television in early childhood	Graduated, Winter 2006
Kirsten Leng (Nutrition)	Member	Assessing potential adolescent use of dance simulation games for physical activity	Graduated, Winter 2006
Bethany Folsom (Nutrition)	Chair	Effects of body weight change on C-reactive protein after exercise intervention	Graduated, Spring 2006

Carol Moores (Epidemiology)	Chair	Military rank as a risk factor for type 2 diabetes in military spouses	Graduated, Spring 2006
Janice Kao (Nutrition)	Member	Analysis of Washington State school nutrition and physical activity policies	Graduated, Summer 2006
Heather Hildebrant (Health Services)	Chair	Neighborhood characteristics and exercise regimen compliance	Graduated, Winter 2006
Joy Supplee (Nutrition)	Chair	Effects of soda consumption on bone mineral density in Native American women: Results from the EARTH cohort	Graduated, Winter 2008
Stephanie Whisnant (Epidemiology)	Chair	Dietary and physical activity behaviors in obesity discordant twins	Graduated, Spring 2009
Meghan O'Connell (Epidemiology)	Chair	Food availability and cost in American Indian reservation communities in Washington State	Graduated, Spring 2009
Jaime Waliczek (Nutrition)	Chair	Effects of energy-dense diets on metabolic and cardiovascular health in Native American adults	Graduated, Autumn 2009
Deonna Hughes (Nutrition)	Chair	Use of the bioengineering iterative cycle to improve usability of a cell phone device for measuring energy intake	Graduated, Autumn 2010
Jared Ulmer (Epidemiology)	Member	Associations among objectively-measured neighborhood traffic exposure, perceptions of neighborhood traffic conditions, and self-rated health	Graduated, Winter 2011
Heather Snively (Nutrition)	Chair	Validation of a mobile phone device for measuring energy balance	Graduated, Summer 2011
Julie White (Health Services)	Member	The influence of obesity on the expansion rate of small abdominal aortic aneurysm	Graduated, Summer 2011
Julianne Williams (Nutrition)	Member	Developing methods for using GPS devices in nutrition and health-related research	Graduated, Autumn 2011
Richard Lau (Nutrition)	Chair	Fast food consumption and the fast food environment	Graduated, Spring 2012

Noah Espinoza (Epidemiology)	Member	Validity of the International Physical Activity Questionnaire in a rural Hispanic population	Graduated, Spring 2012
Erin Enriquez (Nutrition)	Chair	Association between age of dieting onset and body mass index in twins	Graduated, Summer 2012
Jamie Kowatch (Nutrition)	Chair	Association between physical fitness and standardized test scores among elementary and middle school students	Graduated, Autumn 2012
Elisabet Eppes (Nutrition)	Member	Associations among grade, sex, and free and reduced price lunch with use of nutrition labels in middle and high school students	Graduated, Autumn 2012
Isabel Kanholm (Nutrition)	Chair	Access to green space and its association with physical activity	Graduated, Summer 2013
Liang-Dar Hwang (Nutrition)	Chair	Association between objectively measured walking bouts and neighborhood walkability	Graduated, Winter 2014
Anna Eney (Nutrition)	Member	Soda consumption and body mass index in twins	Graduated, Autumn 2015
Jessica Y. Jew (Nutrition)	Member	Food shopping trip characteristics before and after the light rail	Graduated, Winter 2016
Jamie Clayton (Nutrition)	Member	Comparison of objectively and subjectively measured sedentary behavior in men with prostate cancer and a history of androgen-deprivation therapy use	Graduated, Summer 2016
Brandon J Snailer (Health Services)	Member	Impacts of the fruit and vegetable prescription program	Graduated, Winter 2019
Kellie Taylor Anderson (Nutrition & Exercise Physiology)	Chair	TBD	In progress

*Postdoctoral Fellows*

<b>Fellow</b>	<b>Description</b>	<b>Status</b>
Stacey Jolly, MD, MS	<ul style="list-style-type: none"> <li>Fellow in Native Elders Research Center (NERC); primary mentor Jan 2009 – Dec 2009</li> </ul>	Completed program
Gayle Morse, PhD	<ul style="list-style-type: none"> <li>Fellow in Native Elders Research Center (NERC); primary mentor Jan 2010 – Dec 2010</li> </ul>	Completed program
Michelle Jacob, PhD	<ul style="list-style-type: none"> <li>Fellow in Native Elders Research Center (NERC); primary mentor Jan 2011 – Dec 2011</li> </ul>	Completed program
Hassan Ghasemzadeh, PhD	<ul style="list-style-type: none"> <li>Grant writing Uncovered: Maximizing Strategy, Help, Opportunities, Experiences (GUMSHOE); primary coach for Hassan in April 2016 Cohort</li> </ul>	Completed program
Janessa Graves, PhD, MPH	<ul style="list-style-type: none"> <li>Grant writing Uncovered: Maximizing Strategy, Help, Opportunities, Experiences (GUMSHOE); primary coach for Janessa in April 2016 Cohort</li> </ul>	Completed program
Demetrius Abshire, PhD	<ul style="list-style-type: none"> <li>Grant writing Uncovered: Maximizing Strategy, Help, Opportunities, Experiences (GUMSHOE); primary coach for Demetrius in October 2016 Cohort</li> </ul>	Completed program

*Independent Studies*

<b>Student</b>	<b>Project Description</b>	<b>Status</b>
Leslee Sanders (Spr-Sum Qrts. 2005, 5 cr.)	<ul style="list-style-type: none"> <li>Draft and revision of a manuscript for peer-review (Population based reference standards for cardiovascular fitness among U.S. adults: NHANES 1999-2000 and 2001-2002)</li> </ul>	Published
	<ul style="list-style-type: none"> <li>Preparation of human subjects applications for University of Washington and Madigan Army Medical Center (dissertation related work)</li> </ul>	Approved
Caitlin Murphy (Win-Spr Qrts. 2005, 3 cr.)	<ul style="list-style-type: none"> <li>Draft and revision of a manuscript for peer-review (Cardiovascular fitness among U.S. adolescents: NHANES 1999-2002)</li> </ul>	Submitted for review (rejected)
Shoko Kumagai (Spr 2005, 2 cr.)	<ul style="list-style-type: none"> <li>Draft of a manuscript for peer-review (Determinants of cardiovascular fitness among U.S. adults: NHANES 1999-2002)</li> </ul>	Not submitted for review
Leslee Sanders (Win 06, 2 cr.)	<ul style="list-style-type: none"> <li>Collected background information concerning social determinants (income, routine dietary intake, compliance) that could affect dissertation study outcomes</li> </ul>	Completed
		Approved



	<ul style="list-style-type: none"> <li>Modified human subjects applications for University of Washington and Madigan Army Medical Center</li> </ul>	
Leslee Sanders (Spr 06, 3 cr.)	<ul style="list-style-type: none"> <li>Draft of a review article on nutritional supplements and exercise related muscle damage for submission to peer-reviewed journal</li> </ul>	Submitted for review (rejected)
Charles Mayer (Spr 06, 3 cr.)	<ul style="list-style-type: none"> <li>Physical activity and health research (audit NUTR 505 <i>Physical Activity in Health &amp; Disease</i> [Spring 06], help create a seminar course on physical activity for NUTR 500 <i>Graduate Seminar</i> [Winter Quarter 2007])</li> </ul>	Completed
Alina Kostina (Aut 06-Win 07, 7 cr.)	<ul style="list-style-type: none"> <li>Literature review and field work for thesis (Fitness, fatness, and breast cancer biomarkers in overweight adolescent girls)</li> </ul>	Completed
Jorming Goh (Spr 07, 7 cr.)	<ul style="list-style-type: none"> <li>Independent study to gain hands-on experience with recruitment, scheduling, and screening of potential research subjects in an ongoing clinical study at the UW General Clinical Research Study</li> <li>Laboratory rotation to quantify thiol amino acid levels in human plasma using a mass spectrometry technique</li> </ul>	Completed  Completed
Jack Hsiao (Aut 07-Win 08, 3 cr.)	<ul style="list-style-type: none"> <li>Geocoding the University of Washington Twin Registry using walkscore.com</li> </ul>	Completed
Hannah Cohen-Cline (Aut 12-Sp 13, 12 cr.)	<ul style="list-style-type: none"> <li>Literature review and development of a grant application for PhD dissertation and secondary data analysis for publication</li> </ul>	Completed

*Undergraduate/Graduate Research or Practicum Students*

1. Julio Ventura – Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Summer 1999
2. Radha Ivanger – General Clinical Research Center Summer Intern, Department of Medicine, University of Florida, Summer 1999
3. Christopher Jamiolkowski – Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Spring 2000
4. Kim Edwards - Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Spring 2000
5. Timothy Jones - Graduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Spring 2000
6. Carissa Dill – Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Summer 2000

7. Eugene Stuckey – Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Fall 2000
8. Hillary Talbott - Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Fall 2000
9. Diego Munoz - Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Fall 2001
10. Mark Elliot - Undergraduate Practicum Student, Department of Exercise and Sport Sciences, University of Florida, Spring 2002
11. Jacqueline Wong - NUTR/BIO 499 Student, Undergraduate Research, Spring and Summer Quarters, 2004
12. John Manuel - NUTR/BIO 499 Student, Undergraduate Research, Autumn-Spring Quarters, 2004-2005
13. Anna Russell – EPI 499 Student, Undergraduate Research, Winter-Spring-Autumn Quarters, 2014
14. Marlena Norwood – EPI 499 Student, Undergraduate Research, Spring Quarter, 2014

#### *Other Mentoring & Student Activities*

1. MD/PhD Class of 2003 – General Clinical Research Center Student Research Project, Department of Medicine, University of Florida, Summer 2000; manuscript based on project submitted for review (rejected)
2. MD/PhD Class of 2005 – General Clinical Research Center Student Research Project, Department of Medicine, University of Florida, Summer 2002; manuscript based on project published (see #16 in bibliography)
3. Sean Migotsky – University of Washington Undergraduate Research Program, Summer 2007 - Spring 2008; poster presentation at 11<sup>th</sup> Annual Undergraduate Research Symposium titled *Estimating energy expenditure using a multi-sensor board*
4. Marisa L. Sylvester – Graduate student representative on PhD supervisory committee, University of Washington, Summer 2009 – Summer 2012
5. Junqing Shang – Graduate student representative on PhD supervisory committee, University of Washington, Winter 2012 – Spring 2014
6. Andrew Liechty – Washington State University, Elson S. Floyd College of Medicine, supervisor for medical student scholarly project, spring 2018 – present

#### **Service History**

##### **Department, College, University and Professional Service**

Faculty Advisor, Beta Theta Pi Fraternity (Southern Illinois University Carbondale), 1997-98

Homecoming Queen Court Judge (Southern Illinois University Carbondale), 1997

Faculty Advisor, Organization of Sport and Exercise Science (Southern Illinois University Carbondale, Department of Physical Education), 1997-98

Curriculum Committee - Member (University of Washington, Interdisciplinary Graduate Program in Nutritional Sciences), 2003-pres

Admissions Committee - Member (University of Washington, Interdisciplinary Graduate Program in Nutritional Sciences), 2003-05; 2012-pres

Admissions Committee - Ad-hoc reviewer (University of Washington, Department of Epidemiology), 2003-pres

Advisory Board - Member, *Certificate Program in Sports Medicine and Human Performance* (University of Washington Extension), 2003-07

*Healthy Health Sciences* Committee - Member (University of Washington Health Science Center), 2004-05

*Dinner with a Dawg* Student-Athlete Mentoring Program (University of Washington), 2005

Education Committee - Member (University of Washington Medical Center, Institute for Translational Health Sciences), 2005-pres

Curriculum Task Force - Member (University of Washington, Department of Epidemiology), 2005-06

Curriculum Committee – Course peer reviewer (University of Washington, Department of Epidemiology), Winter Quarter 2006, Autumn 2009

Nutrition Task Force – Member (University of Washington, Department of Epidemiology), 2006

Department Chair Review – Member (School of Public Health & Community Medicine, Department of Epidemiology, University of Washington), 2007

Grant Reviewer – Diabetes Endocrinology Research Center (DERC), Samuel and Althea Stroum Endowed Graduate Fellowship in Diabetes Research (University of Washington), 2010; Institute of Translational Health Sciences (ITHS), Small Pilot Committee (University of Washington), 2012

Obesity, Food, Physical Activity, and Health Working Group – Member (University of Washington, School of Public Health, *SPH Strategic Plan 2012-2020*), April-June 2012

Obesity, Food, Physical Activity, and Health Faculty Search Committee – Co-chair (University of Washington, School of Public Health, *SPH Strategic Plan 2012-2020*), July 2012 – 2013

Health Sciences News and Communications, High School Students Visiting Health Sciences – Faculty presenter for Graham Kapowsin High School group (University of Washington, School of Public Health), October 18, 2012

Omenn Award Selection Committee – Member (University of Washington, School of Public Health), April 2014

Liaison Council for Undergraduate Program Assessment – Member (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), August 2015–2017

Curriculum Committee – Chair (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), 2015-2016

Instruction & Laboratory Support Technician 2 Search Committee – Chair (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), December 2015 – July 2016 (Hired Nicholas Dunn)

Academic Coordinator Search Committee – Chair (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), June – August 2016 (Hired Kimberly Jill Wagner)

Director of Development Search Committee – Member (Washington State University – Health Sciences Spokane), July – Sept 2016 (Unsuccessful search)

Faculty Search Committee – Member (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), August 2016-January 2017 (Hired Pablo Monsivais)

Faculty Search Committee – Member (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), January-May 2017 (Hired Ofer Amram)

Faculty Senate – Faculty Senator At Large, Elson S. Floyd College of Medicine (Washington State University – Health Sciences Spokane), 2017 – 2020 (elected to 3-year term)  
Research Involving Student Access (RISA) Committee – Founding member (Elson S Floyd College of Medicine, Washington State University – Health Sciences Spokane), September 2017–January 2018  
Drive to 25 R&D Expenditures Department Chairs and Directors Working Group – Washington State University, September 2017  
Curriculum Committee – Member (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), 2018-2019  
Faculty Search Committee – Chair (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), January-June 2018 (Hired Martine Perrigue)  
Faculty Search Committee – Chair (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), January-June 2018 (Hired Hans Haverkamp)  
Faculty Search Committee – Chair (Washington State University – Health Sciences Spokane, Department of Nutrition & Exercise Physiology), January-June 2019 (Hired Franck Carbonero)  
Faculty Search Committee – Chair (Washington State University Health Sciences Spokane, Department of Nutrition & exercise Physiology), October 2019–present  
Administrative Assistant 2 Search Committee – Chair (Washington State University Health Sciences Spokane, Department of Nutrition & exercise Physiology), September 2019–March 2020 (Hired Duran Paasch-Catalano)

### **Tenure and Promotion Reviews**

1. Nancy Potter, Department of Speech and Hearing Sciences, Elson S. Floyd College of Medicine, Washington State University, May 2016
2. Sterling McPherson, Department of Applied Sciences, Elson S. Floyd College of Medicine, Washington State University, October 2016
3. Kenneth Roberts, Biomedical Sciences, Elson S. Floyd College of Medicine, Washington State University, October 2017
4. Naomi Chaytor, Department of Applied Sciences, Elson S. Floyd College of Medicine, Washington State University, October 2017
5. Joshua Jacobs, Department of Medical Education and Clinical Sciences, Elson S. Floyd College of Medicine, Washington State University, April 2018
6. Jonathan Wisor, Department of Biomedical Sciences, Elson S. Floyd College of Medicine, Washington State University, September 2019

### **Community Service**

*TEAM Diabetes*, American Diabetes Association, Gainesville area coach, 2002-03  
Research and Development Committee - member (*Family Works*, Wallingford-Fremont Public Association, Seattle, WA), 2004-05