

John R. Sirard

Department of Kinesiology and Commonwealth Honors College

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Education

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|---|---------------------|-----------|
| University of South Carolina | Columbia, SC | Aug. 2003 |
| Doctor of Philosophy Department of Exercise Science | | |
| <ul style="list-style-type: none">▪ Concentration: Exercise Physiology▪ Dissertation: Non-Motorized transportation to school and physical activity in fifth grade students | | |
| University of Massachusetts | Amherst, MA | May 1997 |
| Master of Science Department of Exercise Science | | |
| <ul style="list-style-type: none">▪ Concentration: Exercise Physiology▪ Thesis: Field evaluation of the Computer Science and Applications, Inc. (CSA) Accelerometer | | |
| University of Massachusetts | Amherst, MA | May 1991 |
| Bachelor of Science Department of Business Administration | | |
| <ul style="list-style-type: none">▪ Concentration: Marketing▪ Minor: Psychology | | |

Positions

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| University of Massachusetts | Amherst, MA | Aug. 2013 – present |
| Department of Kinesiology and Commonwealth Honors College
School of Public Health and Health Sciences | | |
| Assistant Professor | | Aug. 2013 – Aug. 2019 |
| Associate Professor | | Aug. 2019 - present |
| University of Virginia | Charlottesville, VA | Aug. 2010 – Aug. 2013 |
| Kinesiology Program and Youth-Nex Research Center
Curry School of Education | | |
| Assistant Professor | | |
| University of Minnesota | Minneapolis, MN | Oct. 2005 – Aug. 2010 |
| Division of Epidemiology and Community Health
School of Public Health | | |
| Assistant Professor | | |
| Stanford University | Stanford, CA | Aug. 2003 - Sep. 2005 |
| Postdoctoral Fellowship Stanford Prevention Research Center | | |

Teaching

University of Massachusetts

Amherst, MA

KIN 297J	Special Topics: Research Methods in Youth Physical Activity I (fall and sp)	
KIN 697E	Physical Activity and Health Journal Club	(team: fall)
KIN 345H	Physical Activity and the Built Environment	(sp)
POLISCI 297XH	The Science of Health Inequalities	(team: sp 2018)
KIN 110H	Human Performance and Nutrition	(former - fall and sp)
KIN 570	Pediatric Exercise Physiology	(former - fall)
KIN 697AS	Physical Activity Interventions: Solutions	(former team: sp 2018)

University of Virginia

Charlottesville, VA

EDHS 4410	Exercise Physiology	(fall)
EDHS 8500-1	Exercise Physiology Graduate Seminar	(fall)
EDHS 5500-1	Physical Activity and Public Health	(sp)
EDHS 8500-008	Master's Comprehensive Seminar	(sp)
EDHS 5500	Pediatric Exercise Physiology	(su)

University of Minnesota

Minneapolis, MN

PubH 6020	Fundamentals of Social and Behavioral Sciences	(online, fall)
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University of South Carolina

Columbia, SC

KIN 781	Graduate Exercise Physiology	(sp)
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Advising and Mentoring

University of Massachusetts

Amherst, MA

Aug. 2013-present

Primary advisor and mentor for 5 current PhD students (1 former)
Committee Member for multiple PhD and MS students
Primary advisor for 5 current Honors College students (12 former)

University of Virginia

Charlottesville, VA

Aug. 2010-Aug. 2013

Primary advisor and mentor for 1 PhD student
(current position: Assist. Prof., University of Central Florida)
Committee Member for 2 PhD students (1 Kinesiology, 1 Nursing)
Project Advisor for 1 Kinesiology MEd student
Academic Advisor for 4 Kinesiology MEd students
Academic Advisor for 10 Kinesiology BSEd students

University of Minnesota

Minneapolis, MN

Sep. 2008-Aug. 2010

Committee Member for 1 PhD student and 5 MPH students
Thesis/Project Advisor for 6 MPH students
Academic Advisor for 7 MPH students

Research – Currently Funded

University of Massachusetts

Advisor/Mentor (student N Remillard, BS) Jan. 2019 – May 2020
Energy expenditure discrepancies between a criterion measure and accelerometer prediction algorithms during a high intensity interval exercise session.
UMass Commonwealth Honors College Student Research Grant

Co-Investigator (PI: M Pachucki, Sociology) May 2018-Apr. 2020
Social Network Analysis, Puberty, Screens and Physical Activity
PAR-13-009 (R21), “Secondary Dataset Analyses in Heart, Lung, and Blood Diseases and Sleep Disorders”
NIH NINR 1 R21 NR017154-01A1

Joint-Principal Investigator (with James Kitts, Sociology) Spt. 2016-Jun. 2022
Identifying Mechanisms of Peer Influence on Youth Weight-Related Behaviors
PAR-15-048 (R01), “Systems Science and Health in the Behavioral and Social Sciences”
NIH NICHD 1 R01 HD086259-01A1

Joint-Principal Investigator (with John Staudenmayer, Math & Stats) Jul. 2016-Apr. 2021
Novel Calibration and Validation of Accelerometers in Children and Adolescents
PAR-15-170 (R01), “Diet and Physical Activity Assessment Methodology”
NIH NIDDK 1 R01 DK110148-01

Principal Investigator (Subcontract) (PI: M Kubik, Temple Univ.) Sep. 2013-Mar. 2020
School Nurse-Directed Secondary Obesity Prevention for Elementary School Children
NIH NINR 1 R01 NR013473-01A1

Research – Previously Funded

University of Massachusetts

Co-Investigator (PI: M Busa, IALS-CPHM) Jun. 2018-Dec. 2018
Comprehensive evaluation of a novel movement and behavior assessment technology
Novartis Institute for Biomedical Research, Inc. - Contract

Co-Investigator (PI: K Boyer, Kinesiology) Aug. 2016-Dec. 2018
Misfit Shine Detection of Change in Physical Activity: Evidence and Translation for a New Clinical Outcome Tool
UMass Amherst Institute for Applied Life Sciences 2016 Seed Grant Program

Principal Investigator Aug. 2016-Dec. 2017
Sensitivity of the Misfit Shine in Detecting Change in Physical Activity
Misfit (Fossil Group, Inc.) Contract

Advisor/Mentor (student B Masteller, MS) Jan. 2017-Sep. 2017
Feasibility and efficacy of a movement-training program on physical fitness, fundamental movement skills, and physical activity in third and fourth grade students.

UMass Amherst Graduate School Dissertation Grant

Advisor/Mentor (student JJ Kumar) Sep. 2017-Dec. 2017
A Novel Algorithm for Personalized Activity Intensity Measurement
UMass Commonwealth Honors College Student Research Fellowship

Advisor/Mentor (student GJ Petrucci Jr.) Jan. 2017-May 2017
Validation of Youth-orientated Activity Trackers in Semi-Structured Free Play
UMass Commonwealth Honors College Student Research Grant

Advisor/Mentor (student D Jacobsen) Jan. 2016-May 2016
Direct Observation Validation in Children
UMass Commonwealth Honors College Student Research Grant

Advisor/Mentor (student T Conover) Jan. 2016-May 2016
Direct Observation Validation in Children
UMass Commonwealth Honors College Student Research Fellowship

Co-Investigator (PI: C Tudor-Locke) Jun. 2015-Mar. 2020
CADENCE-adults: cadence and intensity across the adult lifespan
NIH NIA 1 R01 AG049024-01A1
(note: stepped down from this ongoing project to allow time to focus as PI on R01 projects)

Advisor/Mentor (student E Nee) Jan. 2015-May 2015
Physical Activity Tracker Testing in Youth
UMass Commonwealth Honors College Student Research Grant

Advisor/Mentor (student A Foote) Jan. 2015-May 2015
Physical Activity Tracker Testing in Youth
UMass Commonwealth Honors College Student Research Grant

Joint-Principal Investigator (with J Kitts, Sociology) May 2015-Dec. 2015
Pilot Studies for Friends, Exercise, Nutrition, and Screens (FriENDS) Study
UMass Amherst Institute for Social Science Research

Joint-Principal Investigator (with P Freedson, Kinesiology) June 2014–Feb. 2015
Evaluation of Youth Activity Monitors (PI for this part of project)
Reebok Foundation

Co-Investigator (PI: B Braun) July 2013-June 2014
Interdisciplinary Networks – Synergy in Nutrition and Kinesiology (IN-SYNK)
Mellon Mutual Mentoring Grant

University of Virginia

Principal Investigator Oct. 2010 – Aug. 2013
Social Networks, the Environment and Physical Activity
NIH NICHD 1 R21 HD058707-01A2

University of Minnesota and University of Virginia

Principal Investigator Feb. 2010 – Jan. 2011
School Choice Policy Change and Active Commuting to School
RWJF, Active Living Research (RWJF), Rapid Response 2009

University of Minnesota

Co-investigator (PI: L Lytle) Oct. 2005 – Sep. 2010
Transdisciplinary Research on Energetics and Cancer (TREC) Project No. 1
Etiology of Adolescent Obesity
NIH NCI 1 U54 CA116849-01

Principal Investigator Feb. 2006 – Jan. 2007
Physical Activity and Media in the Home Environment
TREC Developmental Project Funds

Co-investigator (PI: M Kubik) Mar. 2006 – Dec. 2008
Controlling Overweight and Obesity for Life (Team COOL)
NIH NIDDK 1 R21 DK072948

Principal Investigator Jun. 2006 – May 2007
Compliance with Wearing Physical Activity Accelerometers
University of Minnesota Obesity Prevention Center

Co-investigator (PI: D Bravata) Jul. 2006 – Jun. 2007
Efficacy of Pedometers for Increasing Physical Activity and Weight Loss: A Meta-Analysis
Stanford Center for Demography and Economics of Health and Aging

Co-investigator (PI: L Lytle) Sep. 2006 – Aug. 2011
Etiology of Childhood Obesity (ECHO)
NIH NHLBI 1 R01 HL085978-01A2

Co-investigator (PI: D Neumark-Sztainer) Sep. 2007 – Aug. 2010
Eating Among Teens and Young Adults (Project EAT-III)
NIH NHLBI 1 R01 HL084064-01A2

Co-investigator (PI: S Allen) June 2009 – Aug. 2010
Exercise for Smoking Cessation in Postmenopausal Women
NIH NIDA 1 R01 DA024872-01A2

Co-investigator (PI: B Lewis) Apr. 2009 – Aug. 2010
Efficacy of an Exercise Intervention for the Prevention of Postpartum Depression
NIH NIMH 1 R21 MH085176 - 01A1

Co-investigator (PI: D Neumark-Sztainer) Apr. 2009 – Aug. 2010
Families and Eating and Activity in Teens (Project F-EAT)
NIH NHLBI 1 R01 HL093247-01A1

Research Proposals – Not Funded

Co-Investigator (PI: Becofsky, Kinesiology) Feb. 2018 submission
(R21/R33), “Leveraging the human-animal bond to promote physical activity among breast cancer survivors”

Mentor (PI: Jake-Schoffman, UMass Medical School) July 2017 submission
Development and preliminary testing of a mobile device app (Family Fit app) to promote parent and child physical activity.
PAR-16-077 (K99/R00), “NIH Pathway to Independence Award”

Co-Investigator (PI: T Collins, U. Kansas Med. School) June 2017 submission
Texting for Mobility in Overweight/Obese Adults with Periphery Artery Disease
Health behavior intervention for older adults with peripheral arterial disease
PAR-16-405 (R61/R33), “Single-Site Investigator-Initiated Clinical Trials”

Mentor (PI: B Masteller, PhD student) April 2016 submission
Feasibility and efficacy of a movement-training program on physical fitness, fundamental movement skills, and physical activity in third and fourth grade students.
NIH F31, “Ruth L. Kirschstein Predoctoral Individual National Research Service Award”

Co-Investigator (PI: M Pachucki, Sociology) Oct. 2015 submission
Social Network Analysis, Puberty, Screens and Physical Activity
PAR-13-009 (R21), “Secondary Dataset Analyses in Heart, Lung, and Blood Diseases and Sleep Disorders”
Impact Score: 47; 41st percentile
Resubmitted and funded on 2nd submission.

Co-Principal Investigator (with James Kitts, Sociology) Feb. 2015 submission
Identifying Mechanisms of Peer Influence on Youth Weight-Related Behaviors
PAR-15-048 (R01), “Systems Science and Health in the Behavioral and Social Sciences”
Impact Score: 38; 27th percentile
Resubmitted and funded on 2nd submission.

Principal Investigator Dec. 2014 submission
Pilot Studies for Friends, Exercise, Nutrition, and Screens (FriENDS) Study
SPHHS Dean’s Research Enhancement Award (Fall 2014)

Co-Investigator (PI: S Alhassan, Kinesiology) May 2014 submission
Health Behavior Intervention to reduce excessive weight gain in minority boys.
PA-13-328 (R01) “Health Promotion among Racial and Ethnic Minority Males”

Co-Investigator (PI: J Cao, U Minn) Dec. 2012 submission
Effects of light rail transit on physical activity, obesity and health disparity
PAR-12-257 (R01), “Time-Sensitive Obesity Policy and Program Evaluation”

Research Proposals – Submitted

n/a

Research Proposals – In Preparation

Principal Investigator

Jun. 2020 submission

Comprehensive validation of consumer- and research-grade wearable sensors in children and adolescents.

PAR-16-043 (R01), “Revision Applications for Validation of Mobile/Wireless Health Tools for Measurement and Intervention”

Refereed Publications

1. Cox MF, Petrucci Jr GJ, Marcotte RT, Masteller BR, Staudenmayer JW, Freedson PS, **Sirard JR**. The development and testing of a novel, video-based direct observation system for children and young adults. *J Meas Phys Behav*. Accepted 9/2019.
2. Schroeder K, Kubik MY, Lee J, **Sirard JR**, Fulkerson JA. Self-efficacy, not peer or parent support, is associated with physical activity and sedentary time among 8-12 year old youth with elevated body mass index. *J Phys Act Health*. Accepted 8/2019.
3. Marcotte RT, Petrucci Jr GJ, Cox MF, Freedson PS, Staudenmayer JW, **Sirard JR**. Estimating sedentary time from a hip- and wrist-worn accelerometer. *Med Sci Sports Exerc*. ePub ahead of print, July 2019. doi: 10.1249/MSS.0000000000002099
4. Collins TC, Ahluwalia J, Nollen N, **Sirard JR**, Marcotte R, Lu K, Zackula R, Okut H. Community-Based Exercise Therapy among African Americans with Peripheral Artery Disease: A Randomized Clinical Trial. *JAMA Network Open*. 2(2), 2019. <https://doi.org/10.1001/jamanetworkopen.2018.7959> .
5. Tudor-Locke C Aguiar EJ, Han H, Ducharme SW, Schuna JM, Barreira TV, Moore CC, Lim J, **Sirard JR**, Chipkin SR, Staudenmayer JW. Walking cadence (steps/min) and intensity in 21-40 year olds: CADENCE-Adults. *International Journal of Behavioral Nutrition and Physical Activity*. 16, 8, 2019. <https://doi.org/10.1186/s12966-019-0769-6>

6. Kubik M, Fulkerson J, **Sirard JR**, Lee J, X, Y, Z. School-based secondary prevention of overweight and obesity among 8- to 12-year old children: Design and sample characteristics of the SNAPSHOT trial. *Contemporary Clinical Trials*. 75(12), 9-18, 2018.
7. Petrucci G Jr, Freedson PS, Masteller BR, Cox MF, Staudenmayer JW, **Sirard JR**. Sensitivity of the Misfit Shine to detect changes in lab-based and free-living physical activity. *Intl J Meas Physical Behav*. 1(1), 18-25, 2018. <https://doi.org/10.1123/jmpb.2017-0006>.
8. Garcia JM, **Sirard JR**, Whaley DE, Rice DJ, Baker K, Weltman A. The Influence of Friends and Psychosocial Factors on Physical Activity and Screen Time in Normal Weight and Overweight Adolescents: A Mixed-Methods Analysis. *Am J Health Promo*. 33(1), 97-106., 2018.
9. St Laurent CW, Masteller BR, St Laurent TG, Say K, Sullivan G, Bigelow C, **Sirard JR**. Efficacy of a suspension trainer-based movement program in youth. *Pediatr Exerc Sci*. 30(3), 364-375, 2018.
10. Peterson NE, **Sirard JR**, Garcia JM, Kulbok P. Analysis of sedentary behavior of older adolescent university students. *Res Nurs Health*. 41(1), 30-38, 2018. doi: 10.1002/nur.21845.

11. Masteller B, Freedson PS, **Sirard JR**. Content Analysis and Children’s Perceptions of Youth-Oriented Websites: The Physical Activity Tracker Testing in Youth (P.A.T.T.Y) Study. *J Med Internet Res – mHealth*. 5(4); available online 4/2017. doi: 10.2196/mhealth.6347. PMID: 28455278.

12. Brittin J, Frerichs L, **Sirard JR**, Wells NM, Myers BM, Garcia J, Sorensen D, Trowbridge MJ, Huang T. Impacts of active school design on school-time sedentary behavior and physical activity: A natural experiment. *PLOS ONE*. 11/2017. <https://doi.org/10.1371/journal.pone.0189236>.
13. **Sirard JR**, Masteller B, Mendoza A, Hickey A, Freedson PS. Comprehensive laboratory- and field-based validation of youth-oriented activity trackers: The Physical Activity Tracker Testing in Youth (P.A.T.T.Y.) Study. *J Med Internet Res – mHealth*. 19(7); available online 7/2017. doi: 10.2196/jmir.6360. PMID: 28724509.
14. Alhassan S, **Sirard JR**, Kurdziel LBF, Merrigan S, Greever C, Spencer MC. Cross-validation of two accelerometers for assessment of physical activity and sedentary time in preschool children. *Med Sci Sports Exerc*. 29(2), 268-277, 2017.
15. Garcia JM, Agaronov A, **Sirard JR**, Whaley D, Rice DJ, Weltman A. Psychosocial and friend influences on objective sedentary behavior and screen time: A mixed methods analysis. *J Phys Activity Health*. 14(3); 213-221, 2017.

16. Garcia JM, Trowbridge MT, Huang TT, Weltman A, **Sirard JR**. Comparison of stable and dynamic school furniture on physical activity and learning in children. *J Primary Prev*. 37(6), 555-560, 2016.
17. Garcia JM, **Sirard JR**, Deutch NL, Weltman A. The influence of friends and psychological factors on physical activity and screen time behavior in adolescents: a mixed-methods analysis. *J Behavioral Med*. 39(4), 610-623, 2016.
18. Garcia JM, **Sirard JR**, Larsen R, Bruening M, Wall M, Neumark-Sztainer D,. Social and psychological factors associated with adolescent physical activity. *J Phys Act & Health*. 13(9), 957-963, 2016.

19. Peterson NE, **Sirard JR**, Kulbok PA, DeBoer MD, Erickson JM. Validation of accelerometer thresholds and inclinometry for measurement of sedentary behavior in young adult university students. *Res Nursing Health*. Available online 10/2015, doi: 10.1002/nur.21694. (Best Research Methods Paper, 2015).
20. Lewis BA, Schuver K, Gjerdingen D, Avery M, **Sirard JR**, Marcus BH. The relationship between prenatal antidepressant use and the decision to breastfeed among women enrolled in a randomized exercise intervention trial. *J Human Lactation*. Published online 6/2015, doi: 10.1177/0890334415592153.
21. Greever CJ, **Sirard JR**, Alhassan S. Objective analysis of preschoolers' physical activity patterns during free playtime. *J Phys Act Health*. Published online 5/2015, doi: <http://dx.doi.org/10.1123/jpah.2014-0307>.
22. **Sirard JR**, MacDonald K, Mustain P, Hogan W, Helm A. School choice policy change and active commuting to elementary school. *Am J Health Promo*. 30(1):28-35, 2015.

23. Lewis BA, Gjerdingen D, Avery M, **Sirard JR**, Guo H, Schuver K, Marcus BH. A randomized trial examining a physical activity intervention for the prevention of postpartum depression: The Healthy Mom Trial. *Mental Health & Physical Activity*. 7:42-49, 2014.

24. Hearst MO, **Sirard JR**, Forsyth A, Parker ED, Klein EG, Green CG, Lytle LA. The relationship of area-level sociodemographic characteristics, household composition and individual-level socioeconomic status on walking behavior among adults. *Transportation Research Part A*. 50:149-157, 2013. PMID: 23729994 PMCID: PMC3667602
25. McCue M, Marlatt K, **Sirard JR**, Dengel D. Examination of Changes in Youth Diet and Physical Activity Over the Summer Vacation Period. *Internet J Allied Health Sciences and Practice*. 11(1), <http://ijahsp.nova.edu/articles/Vol11Num1/pdf/McCue.pdf>, 2013.

26. **Sirard JR**, Bruening M, Wall M, Kim S, Eisenberg M, Neumark-Sztainer D. Physical activity and screen time in adolescents and their friends. *Am J Prev Med.* 44(1), 48-56, 2013. PMID: 23253649, PMC journal – in process
27. **Sirard JR**, Hannan P, Larson N, Graham DJ, Neumark-Sztainer D. Evaluation of 2 self-report measures of physical activity with accelerometry in young adults. *J Phys Act Health.* 10(1), 85-96, 2013.

28. Hearst, MO, Patnode CD, **Sirard JR**, Farbakhsh K, Lytle LA. Multilevel predictors of adolescent physical activity: a longitudinal analysis. *Int J Behav Nutr Phys Act.* 9(8); doi: 1186/1479-5868-9-8, 2012. PMC3305547
29. McDonald K, Hearst M, Farbakhsh K, Patnode C, Forsyth A, **Sirard JR**, Lytle L. Adolescent physical activity and the built environment: A latent class analysis approach. *Health & Place.* 18(1), 191-198, 2012. PMID: 21975286 PMC3266467
30. Baete-Kenyon D, Kubik MY, Davey C, **Sirard JR**, Fulkerson JA. Alternative high school students' physical activity: role of self-efficacy. *Am J Health Behavior.* 36(3), 300-310, 2012. PMID: 22370432
31. Hearst MO, **Sirard JR**, Lytle LA, Dengel D, Berrigan D. Comparison of three measures of physical activity and associations with blood pressure, HDL and body composition in a sample of adolescents. *J Phys Act Health.* 9(1), 78-85, 2012. PMID: 22232509 PMC3600646

32. Martinson BC, Hearst MO, Vasquez-Benitez GX, Patnode CD, Sherwood NE, Parker ED, **Sirard JR**, Pasch K, Lytle LA. Obesogenic Family Types Identified Through Latent Profile Analysis. *Ann Behav Med.* 42(2), 210-220, 2011. PMID: 21638195 PMC3184384
33. Slater ME, **Sirard JR**, Nelson MC, Pereira MA, Lytle LA. Relationships between energy balance knowledge and the home environment: a secondary data analysis. *J Am Diet Assoc.* 111, 556-560, 2011. PMID: 21443988 PMC3107531
34. **Sirard JR**, Forsyth A, Oakes JM, Schmitz KH. Stability reliability of objectively measured physical activity in adults: The Twin Cities Walking Study. *J Phys Act Health.* 8(5), 668-674, 2011. PMID: 21734312
35. **Sirard JR**, Patnode CD, Hearst MO, Laska MN. Dog ownership and adolescent physical activity. *Am J Prev Med.* 40(3), 334-7, 2011. PMID: 21335266 PMC3395162
36. Graham DJ, **Sirard JR**, Neumark-Sztainer D. Adolescents' attitudes toward sports, exercise, and fitness predict physical activity 5 and 10 years later. *Prev Med.* 52(2), 130-2, 2011. PMID: 21130803 PMC3062438
37. Heitzler CD, Lytle LA, Erickson DJ, **Sirard JR**, Barr-Anderson DJ, Story M. Physical activity and sedentary activity patterns among children and adolescents: A latent class analysis approach. *J Phys Act Health.* 8, 457-67, 2011. PMCID: PMC3100677

38. Dengel DR, Hearst MO, Harmon JH, **Sirard JR**, Heitzler CD, Lytle LA. Association of the home environment with cardiovascular and metabolic biomarkers in youth. *Prev Med.* 51(3-4), 259-61, 2010. PMID: 20637798 PMC2939178
39. Patnode CD, Lytle LA, Erickson DJ, **Sirard JR**, Barr-Anderson D, Story M. The relative influence of demographic, individual, social, and environmental factors on physical activity among boys and girls. *Int J Behav Nutr Phys Act*, 2010, <http://www.ijbnpa.org/content/pdf/1479-5868-7-79.pdf>. PMID: 21047429 PMC2991277
40. **Sirard JR**, Laska MN, Patnode CD, Farbakhsh K, Lytle LA. Adolescent physical activity and screen time: associations with the physical home environment. *Int J Behav Nutr Phys Act.* 2010, <http://www.ijbnpa.org/content/pdf/1479-5868-7-82.pdf>. PMID: 21078167 PMC2996341

41. Spruijt-Metz D, Troiano R, Thornquist M, **Sirard J**, Redline S, Berrigan D. Objective and subjective measures of physical activity in youth: Emerging challenges for analysis and interpretation. *J Phys Act Health*. 7(Suppl 3):S322-S324, 2010.
42. Voorhees CC, Ashwood S, Evenson KR, **Sirard JR**, Rung AL, Dowda M, McKenzie TL. Neighborhood design and perceptions: relationship with active commuting. *Med Sci Sports Exerc*. 42(7):1253-1260, 2010. PMID: 20019628 PMC2892002
43. Heitzler CD, Lytle LA, Erickson DJ, Barr-Anderson D, **Sirard JR**, Story M. Evaluating a model of youth physical activity. *Am J Health Behav*. 34(5):593-606, 2010. PMID: 20524889 PMC3086379
44. Samuelson AC, Lytle LA, Farbaksh K, Pasch KE, Moe SA, **Sirard JR**. The physical activity climate in Minnesota middle and high schools. *J School Health*. 7(6):811-817, 2010. PMID: 21088313 PMC3020899

45. Kubik, MY, Davey C, Fulkerson JA, **Sirard JR**, Story M, Arcan C. Alternative high school students: Prevalence and correlates of overweight. *Am J Health Behav*. 33(5):600-609, 2009. PMID: 19296750
46. **Sirard JR**, Slater ME. Compliance with wearing physical activity accelerometers. *J Phys Act Health*. 6(Suppl 1):S148-S155, 2009. PMID: 19998861 PMC2964281

47. **Sirard JR**, Kubik MY, Fulkerson JA, Arcan C. Objectively measured physical activity in alternative high school students. *Med Sci Sports Exerc*. 40(12):2088-2095, 2008. PMID: 18981940 PMC2872077
48. **Sirard JR**, Nelson MC, Pereira MA, Lytle, LA. Reliability and validity of a physical activity and media equipment inventory. *Int J Behav Nutr Phys Act*. 5(24): doi:10.1186/1479-5868-5-24, 2008. PMC2386867
49. **Sirard JR**, Alhassan S, Spencer TR, Robinson TN. Changes in physical activity from walking to school. *J Nutr Educ Behav*. 40(5):324-326, 2008. PMID: 18725153 PMC2556128
50. **Sirard JR**, Slater ME. Walking and bicycling to school: A review. *Am J Lifestyle Med*. 2(5): 372-396, 2008.
51. **Sirard JR**, Pfeiffer KA, Ward DS, Dowda M, Pate RR. Race Differences in Activity, Fitness, and BMI in Female Eighth Graders Categorized by Sports Participation Status. *Pediatr Exerc Sci*. 20(2):198-210, 2008. PMID: 18579900
52. **Sirard JR**, Barr-Anderson DJ. Physical activity in adolescents: from associations to interventions. *J Adolesc Health*. 42(4):327-328, 2008. PMID: 18346656
53. Alhassan S, **Sirard JR**, Spencer TR, Varady A, Robinson TN. Estimating physical activity from incomplete accelerometer data in field studies. *J Phys Act Health*. 5(Suppl 1):S112-S125, 2008. PMID: 18364516

54. Alhassan S, **Sirard JR**, Robinson TN. The effects of increasing outdoor play time on physical activity in Latino preschool children. *Int J Pediatr Obes*. 2(3):153-158, 2007. PMID: 17852547
55. Bravata DM, Smith-Spangler C, Sundaram V, Giegner AL, Lin N, Lewis R, Stave CD, Olkin I, **Sirard JR**. Using pedometers to increase physical activity and improve health: a systematic review. *JAMA*. 298(19):2296-2304, 2007. PMID: 18029834
56. Pfeiffer KA, Dowda M, Dishman RK, **Sirard JR**, Pate RR. Cardiorespiratory fitness in girls: Change from middle to high school. *Med Sci Sports Exerc*. 39(12):2234-2241, 2007. PMID: 18046196
57. Sallis JF, King AC, **Sirard JR**, Albright C. Perceived environment predictors of physical activity over six months in sedentary adults: Activity Counseling Trial. *Health Psychol*. 26(6):701-709, 2007. PMID: 18020842

58. Dowda M, Pate RR, Sallis JF, Freedson PS, Taylor WC, **Sirard JR**, Trost SG. Agreement between child-reported and proxy-reported physical activity questionnaires. *Pediatr Exerc Sci*. 19(3):310-318, 2007. PMID: 18019589
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59. Nelson MC, Neumark-Sztainer DR, Hannan PJ, **Sirard JR**, Story M. Longitudinal and secular trends in physical activity and sedentary behavior during adolescence. *Pediatrics*. 118(6):1627-34, 2006. PMID: 17142492
60. **Sirard JR**, Pfeiffer KA, Pate RR. Motivational factors associated with sports participation in middle school students. *J Adolesc Health*. 38: 696-703, 2006. PMID: 16730598
61. Pfeiffer KA, Dowda M, Dishman RK, Mclver KL, **Sirard JR**, Ward DS, Pate RR. Sport participation and physical activity in adolescent females across a four-year period. *J Adolesc Health*. 39(4): 523-529, 2006. PMID: 16982387
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62. Wilson DK, Evans AE, Williams J, Mixon G, **Sirard JR**, Pate RR. A preliminary test of a student-centered intervention on increasing physical activity in underserved adolescents. *Ann Behav Med*. 30(2); 119-124, 2005. PMID: 16173908 PMC2830074
63. **Sirard JR**, Riner WF, Jr, Mclver KL, Pate RR. Physical activity and active commuting to elementary school. *Med Sci Sports Exerc*. 37(12): 2062-2069, 2005. PMID: 16331130
64. **Sirard JR**, Trost SG, Pfeiffer KA, Dowda M, Pate RR. Calibration and evaluation of an objective measure of physical activity in preschool children. *J Physical Activity Health*. 2(3): 345-57, 2005.
65. Robinson TN, **Sirard JR**. Preventing childhood obesity: A solution-oriented research paradigm. *Am J Prev Med*. 28(2S2): 194-201, 2005. PMID: 15694528
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Book Chapters

1. **Sirard JR**, Cox MF. Exercise Prescription for Children and Adolescents. In, *Guidelines for Exercise Testing and Prescription, 11th Edition*. Publication date, 2019.
2. **Sirard JR**, Petrucci Jr G. Physical activity and sedentary behavior measurement. In, *Physical Activity and Public Health Practice*. Eds. D. Bornstein, J. Moore, A. Eyster, J. Maddock. Springer Publishing Company, LLC, 2019.
3. **Sirard JR**, Garcia JM. Stealth Interventions in Pediatric Obesity. In: *Curbside Consultations in Pediatric Obesity: 49 Clinical Questions*. ed. Huang JS. SLACK Inc., New Jersey. 2014.
4. Freedson PS, **Sirard JR**, Debold EP, Pate RR, Dowda M, Sallis JF. Validity of two physical activity monitors in children and adolescents: laboratory analysis of two accelerometers. In: *Children and Exercise XIX*. eds.; Armstrong N, Kirby B, Welsman JE, Spon FN, London, 1997.

Presentations with Published Abstracts

1. Pachucki MC, Hoyt L, **Sirard JR**, Carbonaro R, Chandler G, Niu L. How puberty affects activity behaviors and friendships during late adolescence. International Network of Social Network Analysis, Annual Sunbelt Conference. Montreal, CA. June 2019.
2. Parmar A, Marcotte RT, Petrucci Jr GJ, **Sirard JR**. Using machine learning techniques to classify resistance training using hip and wrist accelerometers. *Massachusetts Undergraduate Research Conference*. Amherst, MA, April 2019.
3. Petrucci Jr GJ, Marcotte RT, Cox MF, Staudenmayer JW, Freedson PS, **Sirard JR**. Estimating physical activity using a wrist-worn ActiGraph accelerometer: Can it be done? *American College of Sports Medicine Annual Meeting*. Orlando, FL, May 2019.
4. Marcotte RT, Petrucci Jr GJ, Cox MF, Freedson PS, Staudenmayer JW, **Sirard JR**. An evaluation of ActiGraph hip and wrist methods to estimate sedentary behavior in a free-living environment. *American College of Sports Medicine Annual Meeting*. Orlando, FL, May 2019.
5. Cox MF, Petrucci Jr GJ, Marcotte RT, Masteller BR, Staudenmayer J, Freedson PS, **Sirard JR**. Contributions to free-living accelerometer calibration: A novel direct observation system. *American College of Sports Medicine Annual Meeting*. Orlando, FL, May 2019.
6. Petrucci Jr GJ, Marcotte RT, Cox MF, Staudenmayer JW, Freedson PS, **Sirard JR**. A free-living investigation of methods to estimate moderate-to-vigorous physical activity from an ActiGraph accelerometer. *International Congress on Ambulatory Monitoring of Physical Activity and Movement*. Maastricht, the Netherlands, June 2019.
7. Marcotte RT, Petrucci Jr GJ, Cox MF, Staudenmayer JW, Freedson PS, **Sirard JR**. Insights on free-living behavior from a novel direct observation coding system. *International Congress on Ambulatory Monitoring of Physical Activity and Movement*. Maastricht, the Netherlands, June 2019.
8. Marcotte RT, Petrucci Jr GJ, Cox MF, Staudenmayer JW, Freedson PS, **Sirard JR**. Comparison of free-living activity classification using sojourns vs epochs using a wrist-worn accelerometer. *International Congress on Ambulatory Monitoring of Physical Activity and Movement*. Maastricht, the Netherlands, June 2019.
9. Remillard NM, Petrucci Jr GJ, **Sirard JR**. Energy expenditure discrepancies between a criterion measure and accelerometer prediction algorithms during a high intensity interval exercise session. *Massachusetts Undergraduate Research Conference*. Amherst, MA, April 2019.

10. Mendoza AR, Lyden K, **Sirard JR**, Staudenmayer JW, Tudor-Locke C, Freedson PS. Validation of a research-grade accelerometer in estimating free-living sedentary time. *American College of Sports Medicine Annual Meeting*. May 2018, Minneapolis, MN.
11. Petrucci Jr GJ, Freedson PS, Masteller, Cox MF, Staudenmayer JW, **Sirard JR**. Sensitivity of the Misfit Shine to detect changes in laboratory and free-living physical activity. *American College of Sports Medicine Annual Meeting*. May 2018, Minneapolis, MN.
12. Cox MF, Petrucci Jr GJ, Masteller BR, **Sirard JR**. The development and testing of a direct observation protocol for children's free-play activity. *American College of Sports Medicine Annual Meeting*. May 2018, Minneapolis, MN.
13. Kumar JJ, Petrucci Jr G, Masteller BA, Cox MF, Staudenmayer JW, **Sirard JR**, Freedson PS. The relationship between user height and steps measured by a consumer activity tracker. *International Congress on Ambulatory Monitoring of Physical Activity and Movement*. Jun 2017, Bethesda, MD.
14. Masteller BR, Cox MF, Petrucci GJ, Staudenmayer JW, Freedson PS, **Sirard JR**. Comparison of Step Estimates between a Consumer Activity Tracker and Research Accelerometer on the Dominant and Non-Dominant Wrist. *American College of Sports Medicine Annual Meeting*. May 2017, Denver, CO.
15. Petrucci GJ, Masteller BR, Cox MF, Staudenmayer JW, Freedson PS, **Sirard JR**. Sensitivity of a consumer activity tracker to detect changes in physical activity. *American College of Sports Medicine Annual Meeting*. May 2017, Denver, CO.
16. Cox MF, Slate-Romano J, Vercollone H, Jacobsen D, Petrucci Jr GJ, Masteller BR, **Sirard JR**. The development and testing of a direct observation protocol as a criterion measure for children's free play activity. *American College of Sports Medicine Annual Meeting*. May 2017, Denver, CO.
17. Aguiar EJ, Ducharme SW, Han H, Lim J, Moore CC, Busa MA, **Sirard JR**, Chipkin SR, Staudenmayer JW, Tudor-Locke C. The relationship between walking cadence and percentage of maximum heart rate. *American College of Sports Medicine Annual Meeting*. May 2017, Denver, CO.
18. Tudor-Locke C, Schuna JM, Barreira TV, Han H, Aguiar EJ, Ducharme S, Lim J, Moore CC, Busa MA, **Sirard JR**, Chipkin SR, Staudenmayer JW. The relationship between steps/min and intensity on a treadmill in 21-40 year old adults. *American College of Sports Medicine Annual Meeting*. May 2017, Denver, CO.
19. Han H, Aguiar EJ, Ducharme SW, Lim J, Moore CC, Busa MA, **Sirard JR**, Chipkin SR, Staudenmayer JW, Tudor-Locke C. Zero cadence as a proxy indicator of sitting behaviors in objective monitoring. *American College of Sports Medicine Annual Meeting*. May 2017, Denver, CO.
20. Masteller BR, Hawkins M, **Sirard JR**, Kubik MY. Associations between physical activity and health-related quality of life in overweight and obese 8-11 year old children. *North American Society for Pediatric Exercise Medicine*. Aug 2016, Knoxville, TN.
21. St Laurent CW, Masteller BR, St Laurent TG, **Sirard JR**. Effect of a Suspension-Trainer Based Movement Program on Performance and Functional Movement in Youth. *North American Society of Pediatric Exercise Medicine*. Aug 2016, Knoxville, TN.
22. **Sirard JR**, Masteller B, Cox MF, Lee J, Kubik M. Objectively measured physical activity and sedentary behavior associated with quality of life measures in overweight and obese elementary school students. *North American Society of Pediatric Exercise Medicine*. Aug 2016, Knoxville, TN.
23. St Laurent CW, Masteller BR, St Laurent TG, **Sirard JR**. Effect of a Suspension-Trainer Based Movement Program on Performance and Functional Movement in Youth. *American College of Sports Medicine Annual Meeting*. Jun 2016, Boston, MA.
24. Masteller BR, St Laurent CW, St Laurent TG, **Sirard JR**. Effect of a Suspension-Training Program on Muscular Fitness in Youth. *American College of Sports Medicine Annual Meeting*. Jun 2016, Boston, MA.

25. Tran A, Garcia JM, **Sirard JR**, Whaley D, Deutch NL, Rice DJ, Weltman A. Motivation for Sports Participation among Middle and High School Males and Females: A Mixed Method Analysis. *American College of Sports Medicine Annual Meeting*. Jun 2016, Boston, MA.
26. Agaranov A, **Sirard JR**, Whaley D, Deutch NL, Rice DJ, Weltman A, Garcia JM. Psychosocial and Friend Influence on Objective Sedentary Behavior and Screen Time: A Mixed Methods Analysis. *American College of Sports Medicine Annual Meeting*. Jun 2016, Boston, MA.
27. Brittin J, Frerichs L, **Sirard JR**, Wells N, Myers B, Garcia J, Sorensen D, Trowbridge MJ, Huang TTK. Impact of Active School Design on School-Time Sedentary Behavior and Physical Activity: A Longitudinal Study. The Environmental Design Research Association Annual Meeting. May 2016. Raleigh, NC.
28. Brittin J, Frerichs L, **Sirard JR**, Wells N, Myers B, Garcia J, Sorensen D, Trowbridge MJ, Huang TTK. Impact of Active School Design on School-Time Sedentary Behavior: A Longitudinal Study. *The Obesity Society Annual Meeting (Obesity Week)*. Nov 2015. Los Angeles, CA.
29. St Laurent CW, Masteller BR, St Laurent TG, **Sirard JR**. Effect of a Suspension-Trainer Based Movement Program on Performance and Functional Movement in Youth. *New England American College of Sports Medicine Annual Meeting*. Nov 2015. Providence, RI.
30. Masteller BR, St Laurent CW, St Laurent TG, **Sirard JR**. Effect of a Suspension-Training Program on Muscular Fitness in Youth. *New England American College of Sports Medicine Annual Meeting*. Nov 2015. Providence, RI.
31. Agaranov A, **Sirard JR**, Whaley D, Deutch NL, Rice DJ, Weltman A, Garcia JM. Psychosocial and Friend Influence on Objective Sedentary Behavior and Screen Time: A Mixed Methods Analysis. *New England American College of Sports Medicine Annual Meeting*. Nov 2015. Providence, RI.
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33. Garcia JM, **Sirard JR**, Deutsch NL, Weltman A. Influence of friends on physical activity and sedentary behavior in youth: A mixed methods analysis. *American College of Sports Medicine Annual Meeting*. May 2015, San Diego, CA.
34. Rice DJ, Garcia JM, **Sirard JR**, Weltman A. The association of school friends on objectively measured physical activity and sedentary behavior, and reported screen time. *American College of Sports Medicine Annual Meeting*. May 2015, San Diego, CA.
35. Kameh T, Garcia JM, **Sirard JR**, Weltman A. The influence of friends and psychosocial factors on physical activity and screen time in healthy and overweight adolescents. *American College of Sports Medicine Annual Meeting*. May 2015, San Diego, CA.
36. Paisley AS, Garcia JM, **Sirard JR**, Deutsch NL, Weltman A. Comparison of family and friend support on physical activity in adolescents. *American College of Sports Medicine Annual Meeting*. May 2015, San Diego, CA.
37. **Sirard JR**, Masteller BR. Field Evaluation of commercially available youth activity trackers. *American College of Sports Medicine Annual Meeting*. May 2015, San Diego, CA.
38. Masteller BR, **Sirard JR**. Content Analysis and Children's Perceptions of Youth-Oriented Websites for Commercially Available Physical Activity Trackers. *American College of Sports Medicine Annual Meeting*. May 2015, San Diego, CA.
39. Lewis BA, **Sirard JR**, Schuver K, Gjerdingen D, Avery M, Marcus BH. Validity of the 7-Day Physical Activity Recall interview among postpartum women. *Society of Behavioral Medicine Annual Meeting*, April 2015, San Antonio, TX.
40. Garcia JM, Healy S. **Sirard JR**. Youth Physical Activity Participation: The Importance of the Social Environment. *SHAPE America Annual Meeting*. March, 2015, Seattle, WA.

41. Garcia JM, **Sirard, JR**, Deutsch NL, Weltman A. Influence of friends on physical activity and sedentary behavior in youth: A mixed methods analysis. *Southeast Regional American College of Sports Medicine Annual Meeting*. February 2015, Greenville, SC.
42. Kameh T, Garcia JM, **Sirard JR**, Weltman A. The influence of friends and psychosocial factors on physical activity and screen time in healthy and overweight adolescents. *Southeast Regional American College of Sports Medicine Annual Meeting*. February 2015, Greenville, SC.
43. Paisley AS, Garcia JM, **Sirard JR**, Deutsch NL, Weltman A. Comparison of family and friend support on physical activity in adolescents. *Southeast Regional American College of Sports Medicine Annual Meeting*. February 2015, Greenville, SC.
44. Peterson NE, Garcia JM, **Sirard JR**. Influence of two-year changes in sedentary behavior and physical activity on adolescent weight status. *American College of Sports Medicine Annual Meeting*. May 2014, Orlando, FL.
45. Greever C, **Sirard JR**, Alhassan S. Objective analysis of preschoolers' physical activity patterns during free playtime. *American College of Sports Medicine Annual Meeting*. May 2014, Orlando, FL.
46. Garcia JM, Trowbridge MJ, Huang TT, Weltman A, **Sirard JR**. Comparison of static and dynamic school furniture on physical activity and learning in children. *American College of Sports Medicine Annual Meeting*. May 2014, Orlando, FL.
47. Lewis BA, Gjerdingen D, Avery M, **Sirard JR**, Schuver K, Marcus BH. The Influence of Antidepressant Use on the Decision to Breastfeed among Women Enrolled in a Randomized Intervention Trial. *Annual Meeting of the Society of Behavioral Medicine*. April 2014, Philadelphia, PA.
48. Whitt-Glover MC, Borden SL, Wallace JL, Sallah SH, **Sirard JR**. Walk this Way! Results from the Active Commuting to School (ACTS) study. *Active Living Research Annual Conference*, March 2014, San Diego, CA.
49. Garcia JM, **Sirard JR**, Neumark-Sztainer. Individual and social level correlates of adolescent physical activity. *American College of Sports Medicine Annual Meeting*. May 2013, Indianapolis, IN.
50. Garcia JM, **Sirard JR**, Neumark-Sztainer. Individual and social level correlates of adolescent physical activity. *Southeast Regional American College of Sports Medicine Annual Meeting*. February 2013, Greenville, SC.
51. **Sirard JR**, Bruening M, Kin S, Eisenberg M, Neumark-Sztainer D. Adolescent physical activity and screen time associated with nominated friends' behaviors. *International Society of Behavioral Nutrition and Physical Activity*. May 2012, Austin, TX.
52. **Sirard JR**, MacDonald K, Mustain P, Hogan W, Helm A. The Effect of a School Choice Policy Change on Active Commuting to Elementary School. *American College of Sports Medicine Annual Meeting*. June 2012, San Francisco, CA.
53. **Sirard JR**, Bruening M, Wall M, Kim S, Eisenberg M, Neumark-Sztainer D. Adolescent Physical Activity and Screen Time Associated with Nominated Friends' Behaviors. In Symposium, The role of friends in eating, physical activity, and sedentary behaviors of youth. *International Society of Behavioral Nutrition and Physical Activity Annual Meeting*. May 2012, Austin, TX.
54. **Sirard JR**, Hannan PJ, Cutler GJ, Graham DJ, Neumark-Sztainer D. Evaluation of two self-report measures of physical activity with accelerometry in young adults. *American College of Sports Medicine Annual Meeting*. June 2011, Denver, CO.
55. **Sirard JR**, Laska MN, Heitzler CD, Farbakhsh K, Lytle LA. Physical Activity and Screen Time: Associations with the Physical Home Environment. *American College of Sports Medicine Annual Meeting*. June 2010. Baltimore, MD.

56. **Sirard JR**, Welk GJ, Lytle LA, Heitzler CD. Development of Accelerometer Cutpoints using Age-Adjusted MET Values in Adolescents. *International Congress on Physical Activity and Public Health*. May 2010. Toronto, ON.
57. Heitzler CD, Lytle LA, Erickson DJ, **Sirard JR**, Barr-Anderson DJ, Story M. The Relative Influence of Demographic, Individual, Social, and Environmental Factors on Physical Activity among Boys and Girls. *International Congress on Physical Activity and Public Health*. May 2010. Toronto, ON.
58. Heitzler CD, Lytle LA, Erickson DJ, **Sirard JR**, Barr-Anderson DJ, Story M. Physical activity and sedentary activity patterns among children and adolescents: A latent class analysis approach. *International Congress on Physical Activity and Public Health*. May 2010. Toronto, ON.
59. Voorhees C, Ashwood S, Catellier D, Evenson KR, **Sirard JR**, Bedimo-Rung A, Dowda M, Conway TL. Community Design and Perceptions- Relationship with Adolescent, School Based Active Commuting. *American Public Health Association Annual Meeting*. November 2009. Philadelphia, PA.
60. **Sirard JR**, Welk GJ, Heitzler CD, Lytle LA. Youth accelerometer cutoffs for moderate-to-vigorous physical activity: A sensitivity analysis. *American College of Sports Medicine Annual Meeting*. May 2009. Seattle, WA.
61. Kubik MY, Arcan C, Fulkerson J, **Sirard JR**, Story M. Delivering obesity prevention programs in alternative high schools: Feasibility & acceptability of the Team COOL Study. *International Society of Behavioral Nutrition and Physical Activity Annual Meeting*. May 2008. Banff, Canada.
62. Pfeiffer KA, Dowda M, Schmitz KH, Going S, Ward DS, Pate RR, Neumark-Sztainer D, **Sirard JR**, Webber LS. Contribution of light physical activity to total daily physical activity in adolescent girls. *American College of Sports Medicine Annual Meeting*. June 2008. Indianapolis, IN.
63. **Sirard JR**, Slater M. Compliance with wearing physical activity accelerometers in high school students. *American College of Sports Medicine Annual Meeting*. June 2008. Indianapolis, IN.
64. **Sirard JR**, Nelson MC, Pereira MA, Lytle LA. Reliability and validity of a physical activity and media equipment inventory. *American College of Sports Medicine Annual Meeting*. June 2007. Denver, CO.
65. Kubik, MY, Arcan C, Fulkerson J, **Sirard JR**, Story, M. Delivering obesity prevention programs in alternative high schools: Feasibility and acceptability of the Team COOL pilot study. *International Society of Behavioral Nutrition and Physical Activity Annual Meeting*. June 2007. Oslo, Norway.
66. **Sirard JR**, Nelson MC, Pereira MA, Lytle LA. Reliability and validity of a physical activity and media equipment inventory. *International Society of Behavioral Nutrition and Physical Activity Annual Meeting*. June 2007. Oslo, Norway.
67. **Sirard JR**, Fulkerson JA, Kubik MA. Objectively measured physical activity in alternative high school students. *International Society of Behavioral Nutrition and Physical Activity Annual Meeting*. June 2007. Oslo, Norway.
68. Smith-Spangler C, Gienger A, Sundaram V, Lin N, Olkin I, **Sirard JR**, Bravata DM. Increasing physical activity: Do pedometers work? *Society of General Internal Medicine Annual Meeting*. April 2007. Toronto, ON.
69. **Sirard JR**, Alhasson S, Spenser TR, Robinson TN. Changes in physical activity from walking to school. *American College of Sports Medicine Annual Meeting*. May 2006. Denver, CO.
70. **Sirard JR**. The built environment and physical activity. *Congress of Epidemiology*. April 2006. Seattle, WA.
71. **Sirard JR**, Saunders RP, Mclver KL, Pate, RR. Environmental and psycho-social factors associated with walking to school in fifth grade students. *Society of Behavioral Medicine Annual Meeting*. Apr 2005. Boston, MA.

72. **Sirard JR**, Riner WF, Jr, McIver KL, Pate RR. Physical activity and active commuting to school in fifth grade children. *American College of Sports Medicine Annual Meeting*. May 2004. Indianapolis, IN.
73. **Sirard JR**, Saunders RP, McIver KL, Pate RR. Factors associated with active commuting to school in fifth grade students. *American Heart Association Annual Conference on Cardiovascular Disease Epidemiology and Prevention*. Mar 2004. San Francisco, CA.
74. Robinson TN, **Sirard JR**. Strategic directions in environmental and policy research on physical inactivity and on preventing youth obesity. *Active Living Research Annual Conference*. Jan 2004. Del Mar, CA.
75. Pfeiffer KA, Almeida MJCA, Dowda M, **Sirard JR**, Pate RR. Predictors of physical fitness in adolescent females over one year. *American College of Sports Medicine Annual Meeting*. May 2003. San Francisco, CA.
76. Almeida MJCA, **Sirard JR**, Pate RR, Pfeiffer KA, Dowda M, Shuler L. Physical activity patterns and levels in preschool children during outdoor playing. *American College of Sports Medicine Annual Meeting*. May 2003. San Francisco, CA.
77. **Sirard JR**, Dowda M, Ward DS, Saunders RP, Felton GM, Dishman RK, Pate RR. Sports participation, physical activity and BMI in eighth grade girls. *American College of Sports Medicine Annual Meeting*. May 2003. San Francisco, CA.
78. Dowda M, **Sirard JR**, Shuler L, Pate RR. The influence of policies and practices of preschools on physical activity of children. *American College of Sports Medicine Annual Meeting*. May 2002. St. Louis, MO.
79. Almeida MJCA, Pate RR, Dowda M, **Sirard JR**, Shuler L. Physical and social environmental determinants of physical activity in preschool children. *American College of Sports Medicine Annual Meeting*. May 2002. St. Louis, MO.
80. Trost SG, **Sirard JR**, Dowda M, Pate RR. Physical activity in overweight and non-overweight preschool children. *American College of Sports Medicine Annual Meeting*. May 2002. St. Louis, MO.
81. **Sirard JR**, Dowda M., Chappell C, Pate RR. Factors related to sports program participation in middle school students. *American College of Sports Medicine Annual Meeting*. May 2002. St. Louis, MO.
82. **Sirard JR**, Trost SG, Dowda M, Pate RR. Calibration of the Computer Science and Applications, Inc. physical activity monitor in preschool children. *American College of Sports Medicine Annual Meeting*. May 2001. Baltimore, MD.
83. **Sirard JR**, Trost SG, Hastie PA. Student physical activity levels during a season of sport education. *American College of Sports Medicine Annual Meeting*. May 2000. Indianapolis, IN.
84. **Sirard JR**, Pate RR, Dowda M, Ott A, Ross R, Welsh RS, Hill J, Kohl HW III, Seligson F. Determinants of physical activity in young track athletes and a national sample of youth. *American College of Sports Medicine Annual Meeting*. May 1999. Seattle, WA.
85. Trost SG, Pate RR, Freedson PS, **Sirard JR**, Dowda M, Sallis JF. Weekday versus weekend physical activity patterns in youth: gender and age group differences. *American College of Sports Medicine Annual Meeting*. May 1998. Cincinnati, OH.
86. **Sirard JR**, Dowda M, Pate RR, Freedson PS, Sallis JF, Taylor WC. Relationship between self-report and parental proxy report of physical activity in adolescents. *American College of Sports Medicine Annual Meeting*. May 1998. Cincinnati, OH.
87. **Sirard JR**, Melanson EL, Li L, Freedson PS. Field evaluation of the Computer Science and Applications, Inc. (CSA) accelerometer. *American College of Sports Medicine Annual Meeting*. May 1997. Denver, CO.

88. Freedson PS, **Sirard JR**, Debold EP, Pate RR, Dowda M, Trost SG, Sallis JF. Calibration of the Computer Science and Applications, Inc. (CSA) accelerometer. *American College of Sports Medicine Annual Meeting*. May 1997. Denver, CO.
89. Melanson EL, **Sirard JR**, Li L, Freedson PS, Cunningham JC. Classifying physical activity using a vertical plane accelerometer. *New England American College of Sports Medicine Annual Meeting*. Nov 1995. Boxborough, MA.

Other Presentations/Publications

1. **Sirard JR**, Keadle S, Bassett D, Strath S, Just D. O. it. Using video-based Direct Observation to assess physical behavior. Pre-Conference Workshop. *International Congress on Ambulatory Monitoring of Physical Activity and Movement*. Maastricht, the Netherlands, June 2019.
2. Ames K, Rorke K, Masteller BR, **Sirard JR**. The effects of a 12-week fitness intervention on psychosocial variables in children. *Massachusetts Undergraduate Research Conference*. April, 2018. Amherst, MA.
3. Conover T, Marcotte R, **Sirard JR**. An improved direct observation system to code resistance training. *Massachusetts Undergraduate Research Conference*. April, 2018. Amherst, MA.
4. Hale A, Marcotte R, **Sirard JR**. Characterization of movement during sporting activities in adolescents. *Massachusetts Undergraduate Research Conference*. April, 2018. Amherst, MA.
5. Gramann BK, Cox MF, **Sirard JR**. Activity intensity patterns assessed by direct observation and accelerometry during ultimate Frisbee game play. *Massachusetts Undergraduate Research Conference*. April, 2018. Amherst, MA.
6. Marcotte RT, Petrucci Jr GJ, Cox MF, Freedson PS, Staudenmayer JW, **Sirard JR**. An evaluation of ActiGraph wrist methods to estimate sedentary behavior in the free-living environment. *University of Massachusetts School of Public Health and Health Sciences Research Day*. April, 2018. Amherst, Massachusetts.
7. Cox MF, Petrucci Jr GJ, Masteller BR, **Sirard JR**. The development and testing of a direct observation protocol for children's free-play activity. *University of Massachusetts School of Public Health and Health Sciences Research Day*. April, 2018. Amherst, MA.
8. Petrucci Jr GJ, Marcotte RT, Cox MF, Freedson PS, Staudenmayer JW, **Sirard JR**. Investigation of actiGraph hip methods to estimate sedentary behavior in free-living environments. *University of Massachusetts School of Public Health and Health Sciences Research Day*. April, 2018. Amherst, MA.
9. Kumar JJ, Petrucci Jr GJ, Masteller BR, Cox MF, Staudenmayer JW, **Sirard JR**, Freedson PS. Assessing the relationship between user height and steps measured by a consumer activity tracker. *Massachusetts Undergraduate Research Conference*. April 2017. Amherst, MA.
10. Petrucci Jr GJ, Masteller BR, Cox MF, Staudenmayer JW, **Sirard JR**, Freedson PS. Sensitivity of the Misfit Shine to detect changes in physical activity. *Massachusetts Undergraduate Research Conference*. April, 2017. Amherst, MA.
11. Shah K, Sangani N, Cox MF, **Sirard JR**. Analyzing intra- and inter-rater reliability for a novel direct observation system. *Massachusetts Undergraduate Research Conference*. April, 2017. Amherst, MA.
12. Masteller BR, Larson J, Petrucci Jr GJ, Cox MF, Staudenmayer JW, Freedson PS, **Sirard JR**. Comparison of step estimates between a consumer activity tracker and research accelerometer on the dominant and non-dominant wrist. *UMass Amherst School of Public Health and Health Sciences Research Day*. April, 2017. Amherst, MA.
13. Cox MF, Slate-Romano J, Vercollone H, Jacobsen D, Petrucci Jr GJ, Masteller BR, **Sirard JR**. The development and testing of a direct observation protocol as a criterion measure for children's

- free play activity. *UMass Amherst School of Public Health and Health Sciences Research Day*. April, 2017. Amherst, MA.
14. Jacobsen D, Slate-Romano J, Vercollone H, Cox M, Masteller B, Petrucci G, Conover T, O'Donnell M, **Sirard JR**. Estimating Children's Physical Activity Intensity Using a New Direct Observation System. *Massachusetts Statewide Undergraduate Research Conference*. April, 2016. Amherst, MA.
 15. Slate-Romano J, Vercollone H, Jacobsen D, Cox M, Masteller B, Petrucci G, Conover T, O'Donnell, **Sirard JR**. Validation of Directly Observed Physical Activity in Children. *Massachusetts Statewide Undergraduate Research Conference*. April, 2016. Amherst, MA.
 16. **Sirard JR**, Mendoza AR, Masteller BR, Hickey A, Freedson PS. The Physical Activity Tracker Testing in Youth (PATTY) Trials. *UMass Amherst Department of Kinesiology Graduate Seminar*. October, 2015. Amherst, MA.
 17. **Sirard JR**. Physical Activity Program of Research and Social Sciences. *Computational Social Science Weekly Seminar*. October, 2015. Amherst, MA.
 18. Masteller B, Freedson PS, **Sirard JR**. Content Analysis and Children's Perceptions of Youth-Oriented Physical Activity Tracker Websites. *UMass Amherst School of Public Health and Health Sciences Research Day*. April, 2016. Amherst, MA.
 19. **Sirard JR**, Bruening M, Wall M, Kim S, Eisenberg M, Neumark-Sztainer D. Physical activity and screen time in adolescents and their friends. *UMCCTS Research Retreat*. May, 2014. Worcester, MA.
 20. Greever C, **Sirard JR**, Alhassan S. Objective analysis of preschoolers' physical activity patterns during free playtime. *UMCCTS Research Retreat*. May, 2014. Worcester, MA.
 21. Nee E, Foote A, Masteller B, **Sirard JR**. Physical Activity Tracker Testing in Youth: The PATTY Study. *Massachusetts Undergraduate Research Conference*. April, 2015. Amherst, MA.
 22. **Sirard JR**. Adolescent Social Networks, Physical Activity and Other Health Behaviors. University of Virginia, Youth-Nex Works In Progress Monthly Meeting. Oct. 2011
 23. **Sirard JR**. Cardiovascular Adaptations to Training in Adults and Youth. University of Virginia Pediatric Cardiology Fellows Meeting. Invited seminar. Apr. 2011.
 24. **Sirard JR**. Physical Activity and Media in the Home Environment. Division of Epidemiology and Community Health. Invited seminar. Mar. 2009.
 25. **Sirard JR**. Physical Activity Interventions in Children and Adolescents. Invited lecture in *Obesity & Eating Disorders: Treatment, Prevention and Policy (PubH 6000)*. University of Minnesota, Minneapolis, MN. Mar. 2009.
 26. **Sirard JR**. Physical Activity Interventions in Children and Adolescents. Invited lecture in *Obesity & Eating Disorders: Treatment, Prevention and Policy (PubH 6000)*. University of Minnesota, Minneapolis, MN. Feb. 2008.
 27. **Sirard JR**. Physical Activity Interventions in Children and Adolescents. Invited lecture in *Obesity & Eating Disorders: Treatment, Prevention and Policy (PubH 6000)*. University of Minnesota, Minneapolis, MN. Feb. 2007.
 28. **Sirard JR**. Development of Accelerometer Cut Points using Age-Adjusted MET values in Adolescents. *Energy Balance Research Group Weekly Meeting*. Invited lecture. University of Minnesota, School of Public Health, Division of Epidemiology and Community Health. Feb. 2009.
 29. **Sirard JR**, Nelson MC, Lytle LA. Physical activity and media equipment in the home environment. *Obesity Research Group Weekly Meeting*. Invited lecture. University of Minnesota, School of Public Health, Division of Epidemiology and Community Health. Feb 2006.
 30. **Sirard JR**, Nelson MC, Lytle LA. Physical activity and media equipment in the home environment. 1st *TREC Investigator's Meeting*. Feb 2006. Pasadena, CA.

31. Acknowledged in: Goran MI and Reynolds K. Interactive Multimedia for promoting physical activity (IMPACT) in children. *Obes Res.* 13(4):762-771, 2005.
32. Acknowledged in: Pate RR, Pfeiffer KA, Trost SG, Ziegler P, Dowda M. Physical activity among children attending preschools. *Pediatrics.* 114:1258-63, 2004.
33. **Sirard JR.** Physical activity, sports participation and the physical environment in youth. Invited lecture at *Stanford University School of Medicine Seminar Series.* Stanford University, Stanford, CA. September 2004.
34. **Sirard JR.** Physical Activity Interventions in Children and Adolescents. Invited lecture in *Psychology of Physical Activity (EXSC 410).* University of South Carolina, Columbia, SC. November 2001.
35. Melanson EL, **Sirard JR**, Li L, Freedson PS, Cunningham JC. Classifying physical activity using a vertical plane accelerometer. *New England American College of Sports Medicine Annual Meeting.* Boxborough, MA. November 1995.

Manuscripts in Review

1. Masteller BR, Alhassan S, Hawkins M, **Sirard JR.** Efficacy of a movement-training intervention on fitness, motor skills, and physical activity in elementary school children. *Pilot and Feasibility Studies.* Submission 9/2019.

Manuscripts in Preparation

2. Masteller BR, Alhassan S, Hawkins M, **Sirard JR.** Feasibility and acceptability of implementing a movement-training intervention in elementary school children. *Intl J Behav Nutr Phys Act.*
3. **Sirard JR**, Kitts J, Pachucki MC, Sibeko L, Bermudez M, Masteller BR. Similarities in urban middle school students' physical activity and screen time across school-bound social networks. *Intl J Behav Nutr Phys Act.* Submission 4/2019.
4. Petrucci Jr GJ, Marcotte RT, Cox MF, Freedson PS, Staudenmayer JW, **Sirard JR.** Calibration and validation of a multi-component method for estimating physical behavior from a wrist-worn accelerometer in free-living settings. *J Phys Act Health.*
5. Chase J, Spencer B, **Sirard JR.** Validity of hip- and wrist-worn accelerometer-derived measures of sleep: A systematic review. *SLEEP.*
6. **Sirard JR**, Marcotte RT, Staudenmayer JW, Petrucci Jr GJ. Using accelerometer data features to improve estimates of fitness from non-exercise aerobic fitness prediction equations. *Med Sci Sports Exerc.*

Abstracts in Review/Accepted

n/a

Associate Editor

International Journal for the Measurement of Physical Behaviour

5/2017 – present

Reviewer - Manuscripts

International Journal for the Measurement of Physical Behaviour

American Journal of Preventive Medicine

American Journal of Public Health

BMC Public Health

International Journal of Behavioral Nutrition and Physical Activity

International Journal of Pediatric Obesity
Journal of Adolescent Health
Journal of the American Medical Association
Journal of Physical Activity and Health
Journal of School Health
Medicine and Science in Sports and Exercise
Pediatric Exercise Science
Preventive Medicine
Plos One

Reviewer - Grant Proposals

- Croation Science Foundation, 1 application (5-yr, €200,000) Jul. 2017
- Swiss National Science Foundation, 1 application (5-yr, €1.2 million) Jan. 2017
 - Revision application Dec. 2017
- NIH Special Emphasis Panel (2017/05 ZDK1 GRB-1 (M3) 1), PAR-15-346, Time-Sensitive Obesity Policy and Program Evaluation, R01 Applications Jan. 2017-present
- The Innovational Research Incentives Scheme – Vici (Netherlands): Sep. 2016
 Targeted at outstanding senior researchers who have successfully demonstrated the ability to develop their own innovative lines of research, and to act as coaches for young researchers. The maximum grant is 1.5 million euros.
- Cybex Foundation Undergraduate Honors Student Grants: Fall 2013 – Fall 2016
- Ohio University Research Committee, External Reviewer: Nov. 2012, Feb. 2019
- Active Living Research (RWJF) Round 3, Rapid Response CFP: Sep. 2011
- WorkSafeBC, Innovation at Work (Research Secretariat, British Columbia): Oct. 2008
- Active Living Research (RWJF) Round 3, Cycle 2: Sep. 2003

Community/University Service

University of Massachusetts

Department of Kinesiology

- Search Committee Member, Kinesiology cluster hire Spt. 2019 - present
- By-Laws Committee Member Spt. 2019 – present
- Search Committee Member, Kinesiology A&P Lecturer Jan. 2018 – Jun. 2018
- Search Committee Co-Chair, Kinesiology-IALS, Assist. Prof May 2017 – Oct. 2017
- Chair’s Advisory Committee Member, Kinesiology Oct. 2016 – June 2017
- Search Committee Member, Kinesiology, Asst. Prof. Dec. 2104 – May 2016
- Qualifying Exam Committee, Member Spt. 2014 – Spt. 2016
- Qualifying Exam Committee, Chair Spt. 2016 – Spt. 2019
- Search Committee Member, Kinesiology, Department Chair May 2014 – May 2015
- Department Personnel Committee, Member Spt. 2013 – Spt. 2016

School/University

- SPHHS Research Committee Spt. 2019 - present
- SPHHS Community Advisory Board Feb. 2018 – present
 - Invited faculty speaker 4/26/2018
- SPHHS Center for Community Health Equity Research, Affiliate Jan. 2018 - present

- CHC Academic Standards Committee, Member Dec. 2017 – present
- Judge, SPHHS Student Research Day Apr. 2016
- CHC student fellowships and grants, Reviewer Spt. 2014 - present
- Center for Personalized Health Monitoring (CPHM) Faculty May 2015 – present
- Computational Social Science Institute (CSSI), Affiliate Spt. 2015 – present

Community/Media

- Springfield Bound, Participant 9/30/2018
- Ask the Expert for WalletHub.com (<https://wallethub.com/edu/best-and-worst-cities-for-an-active-lifestyle/8817/#john-r-sirard>) 1/5/2016
- Interview Newsweek Magazine: Physical Activity as a Physician Vital Sign 11/2017

University of Virginia

- Southern Association of Colleges and Schools; Report
for Master’s Program in Exercise Physiology Fall 2012
- Faculty advisor for a Jefferson Public Citizens grant proposal Fall 2012
- Counselor Education Faculty Search Committee Feb. 2012 – Mar. 2012
- Kinesiology first-year admissions committee Fall 2011
- Charlottesville Obesity Task Force Oct. 2010–Aug. 2013
- Kinesiology Program Expansion Spt. 2010 – Aug. 2013

University of Minnesota

- Epidemiology and Community Health (EpiCH) Graduate Faculty Sep. 2005-Aug. 2010
- Community Health Education (CHE) Graduate Faculty Apr. 2006–Aug. 2010
- CHE Admissions Committee, member Sep. 2006–Aug. 2010
- PhD Admissions Committee, member Sep. 2007–Aug. 2009
- Energy Balance Research Group, member Sep. 2006–Aug. 2010
- Energy Balance Research Group, Coordinator Jan. 2009-May 2009
- International Society for Behavioral Nutrition and Physical Activity, Planning Committee Member for 2010 Annual Meeting Jun. 2008–Jun. 2010
- UMN Population Center Spatial Core Advisory Board Jun. 2008–Aug. 2010
- Minnesotans for Health Kids Coalition (American Heart Association) Jan. 2008–Aug. 2010
- Expert testimony for MN Senate E-12 Education Budget Committee Mar. 11, 2008

Stanford University

- Coordinator for monthly postdoctoral roundtables Sep. 2004-Sep. 2005

Professional Affiliations

- International Society for the Measurement of Physical Behaviour 2017 - present
- International Society for Behavioral Nutrition and Physical Activity 2007-present
- Society of Behavioral Medicine 2004-2010
- National Coalition for Promoting Physical Activity 2000-present
- South Carolina Coalition for Promoting Physical Activity 2000-2003
- North American Society for Pediatric Exercise Medicine 1999-present
- American College of Sports Medicine 1995-present
 - Fellow status Nov. 2017-present