

GREGORY KNELL

University of North Texas Health Science Center at Houston
School of Public Health
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CURRENT TITLE AND AFFILIATIONS

2023- **Assistant Professor** (tenure-track)
Department of Population & Community Health
The University of North Texas Health Science Center, Fort Worth, Texas

EDUCATION

2017 **Ph.D., Epidemiology**
The University of Texas Health Science Center at Houston (UTHealth)
School of Public Health, Houston, Texas

2013 **M.S., Kinesiology**
University of North Texas, Denton, Texas

2005 **B.S., Kinesiology**
Texas A&M University, College Station, Texas

POST-GRADUATE TRAINING

2017-2019 **Postdoctoral Research Fellow**
Cancer Education and Career Development Program
Michael & Susan Dell Center for Healthy Living, Austin, Texas
UTHealth School of Public Health, Houston, Texas

2018 **Research Fellow**
Physical Activity and Public Health Research Directions & Strategies
Centers for Disease Control & Prevention, Atlanta, Georgia
University of South Carolina Arnold School of Public Health, Columbia, South Carolina

PROFESSIONAL EXPERIENCE

2019-2023 **Assistant Professor** (tenure-track)
Department of Epidemiology, Human Genetics & Environmental Sciences
The University of Texas Health Science Center at Houston (UTHealth), Dallas, Texas

2018-2019 **Co-Instructor**
Department of Health Promotion and Behavioral Science
UTHealth School of Public Health, Dallas, Texas

2018-2019 **Adjunct Faculty**
Department of Kinesiology, Health Promotion, & Recreation
University of North Texas, Denton, Texas

2013-2017 **Doctoral Research Assistant**
UTHealth School of Public Health, Austin, Texas

2014-2017 **Doctoral Teaching Assistant**
Department of Epidemiology, Human Genetics & Environmental Sciences
UTHealth School of Public Health, Austin, Texas

Signed



- 2015-2016 **Associate Research Epidemiologist**
Precision Health Economics
Precision Medicine Group, Los Angeles, California
- 2015-2016 **Specialist**
Department of Public Health, School of Human Ecology
The University of Texas at Austin, Austin, Texas
- 2011-2012 **Teaching Fellow**
Department of Kinesiology, Health Promotion & Recreation, College of Education
University of North Texas, Denton, Texas
- 2006-2011 **Marketing Manager**
Robwill Inc., Dallas, Texas
- 2005-2006 **Subcontractor - Hurricane Katrina Relief**
GL Barron Company, Inc., Fort Worth, Texas

GRANTS AND CONTRACTS

Current – Principal Investigator

Effect of exercise and screen-time restrictions on sport-related concussion recovery time among adolescents. (PI: Knell, G)

Source: Children's Medical Center Foundation
Direct cost: \$118,738
01/2022-12/2024

Completed projects

Behavioral factors affecting sport-related concussion recovery time for adolescents (B-FAST Study). (PI: Knell, G)

Source: Children's Health System of Texas
Direct cost: \$47,935
02/2020—02/2022

The effect of rates of change in cognitive functioning tasks on concussion recovery. (PI: Knell, G)

Source: UTHealth
Period: 09/01/2020-08/31/2021
Amount: \$24,511

Cancer education and career development program. (PI: Mullen, PD)

Role: Post-doctoral fellow
Source: NCI/NIH T32 CA57712
Period: 05/01/2017-05/31/2019
Amount: \$109,046

Effects of light rail transit on physical activity: a natural experiment. (PI: Kohl III, HW)

Role: Graduate Research Assistant
Source: NIDDK/NIH R01 DK101593
Period: 10/01/2013-05/01/2017
Amount: \$2,500,000

Reliability of an online system to assess physical activity behaviors in a college aged population. (PI: Knell, G)

Source: University of North Texas
Period: 02/01/2013 – 05/01/2013
Amount: \$1,000

Under review

Effect of housing choice vouchers on adult physical and mental health: A randomized longitudinal natural experiment. (PI: Durand, CP)

Source: DHHS/NIH FOA: PA-20-185
Total direct cost: \$2,549,978
Role: Co-Investigator (1.8 FTE)

Project PACE: using intervention mapping to build a physical activity intervention to maximize health outcomes for African American breast cancer survivors. (PI: Allicock, M)

Source: NCI/NIH Exploratory/Developmental Research Grant (R21) FOA: PA-18-723
Total direct cost: \$263,594
Role: Co-Investigator

Addressing physical activity and sedentary behaviors among African American breast cancer survivors. (PI: Allicock, M)

Source: American Cancer Society (ACS)
Direct cost: \$1,571,425 (overall)
Role: Co-Investigator

Developing models for community-led development of effective physical activity interventions in multi-unit housing complexes. (PI: Ranjit, N)

Source: NIH Phased Innovation Award (R21/R33)
Direct cost: \$939,999 (overall)
Role: Co-Investigator

Previously submitted, not funded

Predicting adolescent lower extremity musculoskeletal injury following a concussion using a machine learning approach. (PI: Knell, G)

Source: NIAMS/NIH Mentored Research Scientist Development Award (K01) FOA: PA-20-176
Direct cost: \$580,903 (overall)

Behavioral factors affecting sport-related concussion recovery time for adolescents (PI: Knell, G)

Source: NINDS/NIH Development (R21) FOA: PA-18-358
Direct cost: \$275,000

Evaluating components of body composition and musculoskeletal injury severity among pediatric hospital patients. (PI: Knell, G)

Source: National Obesity Research Center (NORC) - Texas.
Direct cost: \$25,000

Longitudinal effects of a new policy to standardize school start and stop times on obesity-related behaviors across K-12 schools in a large urban school district. (PI: Durand, CP)

Source: NICHD/NIH Development (R01) FOA: PAR-15-346

Direct cost: \$1,900,000
Status: Reviewed and scored
Role: Co-Investigator; grant conceptualization; co-author

HONORS & AWARDS

- 2019 Inaugural Deans' Excellence in Research Award, School of Public Health, University of Texas Health Science Center (UTHealth)
- 2018 "Top Digital Biomarker Paper of 2017" nominee for *Ecological Momentary Assessment of Physical Activity: Validation Study* (Knell et al., 2017; JMIR), Digital Biomarkers
- 2017 Emerging Researcher Travel Award, National Institutes of Health (NIH), Office of Disease Prevention (ODP), Pathways to Prevention Workshop on Methods for Evaluating Natural Experiments in Obesity
- 2017 National Honor Society of Public Health Inductee, Delta Omega, Alpha Iota Chapter
- 2016 Conference/Meeting Travel Award, Interdepartmental Concentrations, University of Texas School of Public Health
- 2016 Inaugural Outstanding Graduate Assistant, Michael and Susan Dell Center for Healthy Living
- 2014 Dean's Excellence Scholarship, University of Texas Health Science Center (UTHealth)
- 2013 Lauream Christian Robertson Memorial Scholarship, University of North Texas
- 2012 The Vivian S. Spohn Education Scholarship, University of North Texas
- 2012 Kenneth Bahnsen Scholarship, University of North Texas
- 2012 Victor and Flo Rodriguez Scholarship, University of North Texas
- 2005 Academic All-American, Men's Collegiate Lacrosse Association, Texas A&M University

PUBLICATIONS

Complete list of published work in [NCBI MyBibliography](#)

Peer reviewed (* denotes students/trainees; †denotes joint first authorship)

- 39) *Hale JL, **Knell G**, Swartz MD, Shiroma EJ, Ellis T, Lee IM, Gabriel KP. Association of Parkinson's disease status with accelerometer-derived physical activity and sedentary behavior in older women: The Women's Health Study (WHS). *Preventive Medicine Reports*. 2023 Oct 1;35:102361. doi: <https://doi.org/10.1016/j.pmedr.2023.102361>
- 38) *Hale JL, **Knell G**, Swartz MD, Shiroma EJ, Ellis T, Lee IM, Gabriel KP. The prospective association of accelerometer-measured physical activity and sedentary behavior and time to Parkinson's disease diagnosis in older women: The Women's Health Study (WHS). *Preventive Medicine Reports*. 2023 Aug 2;35:102361. doi: [10.1016/j.pmedr.2023.102361](https://doi.org/10.1016/j.pmedr.2023.102361). PMID: 37584064; PMCID: PMC10424137.
- 37) *Cox CF, Messiah SE, **Knell G**. Learning Modality and Quality of Life Among US School-Age Children During the Coronavirus Pandemic. *Journal of School Health*. 93 (6), 441-449, 2023.

- 36) Johnson AM, **Knell G**, Walker TJ, Kroshus E. Differences in American adolescent sport participation during the COVID-19 pandemic by learning mode: A national survey *Preventive Medicine Reports*. 32, 102151. doi: doi.org/10.1016/j.pmedr.2023.102151.
- 35) *Brayton RP, Price AM, Jones C, Ellis C, Burkhart S, **Knell G**. Prospective evaluation of 24-hour movement behaviors among adolescents recovering from a sport-related concussion. *Applied Neuropsychology: Child*, 1-9. doi; 10.1080/21622965.2023.2181082
- 34) *Price AM, *Arvin N, Seagraves B, Burkhart SO, **Knell G**. Comparison of prescribed physical therapy to a home exercise program for pediatric sport-related concussion patients. (In press: *Child Neurology*)
- 33) *Weerakoon SM, *Henson-Garcia M, Valerio-Shewmaker MA, Messiah SE, **Knell G**. Identifying health communication and literacy barriers to COVID-19 vaccine uptake among US adults. (In press: *JMIR Formative Research*)
- 32) *Bejarano G, *Brayton RP, Ranjit N, Hoelscher D, Gill M, **Knell G**. Independent and joint associations of sleep and physical activity with obesity among Texas children: results from a population-based, cross-sectional analysis of SPAN. *BMC Pediatr* 22, 428 (2022). <https://doi.org/10.1186/s12887-022-03488-8>
- 31) **Knell G**, Burkhart SO, Gabriel KP. Need to clarify mechanisms explaining the effect of screen time on recovery from concussion. *JAMA Pediatrics*. Published online 2021 Dec 13; doi: doi:10.1001/jamapediatrics.2021.5339.
- 30) Chu Y, **Knell G**, Brayton RP, Burkhart SO, Shams S, Jiang X. Machine learning to predict sports-related concussion recovery using clinical data. (In press: *Annals of Physical and Rehabilitation Medicine*.)
- 29) *Price AM, **Knell G**, Caze II TJ, Abt JP, Loveland D, Burkhart SO. Exploring vestibular/ocular and cognitive dysfunction as prognostic factors for protracted recovery in sports-related concussion patients aged 8 to 12 years. *Clin J Sport Med*. 2021 Sep 8;. doi: 10.1097/JSM.0000000000000975. [Epub ahead of print] PubMed PMID: 34516435.
- 28) Shuval K, Marroquin EM, Li Q, **Knell G**, Pettee Gabriel K, Drope J, Yaroch AL, Chartier KG, Fennis BM, Qadan M. Long-term weight loss success and the health behaviours of adults in the USA: findings from a nationally representative cross-sectional study. *BMJ Open*. 2021 Jul 14;11(7):e047743. doi: 10.1136/bmjopen-2020-047743. PubMed PMID: 34261685; PubMed Central PMCID: PMC8281097.
- 27) *Weerakoon SM, Jetelina KK, **Knell G**, Messiah SE. COVID-19 related employment change is associated with increased alcohol consumption during the pandemic. *Am J Drug Alcohol Abuse*. 2021 May 27;1-7. doi: 10.1080/00952990.2021.1912063. [Epub ahead of print] PubMed PMID: 34043919.
- 26) **Knell G**, Li Q, Morales-Marroquin E, Drope J, Gabriel KP, Shuval K. Physical activity, sleep, and sedentary behavior among successful long-term weight loss maintainers: findings from a U.S. national study. *Int J Environ Res Public Health*. 2021 May 22;18(11). doi: 10.3390/ijerph18115557. PubMed PMID: 34067414; PubMed Central PMCID: PMC8196944.
- 25) **Knell G**, Caze II TJ, Burkhart SO. Evaluation of the vestibular and ocular motor screening (VOMS) as a prognostic tool for protracted recovery following paediatric sports-related concussion. *BMJ Open Sport Exerc Med*. 2021;7(1):e000970. doi: 10.1136/bmjsem-2020-

000970. eCollection 2021. PubMed PMID: 33868706; PubMed Central PMCID: PMC7996664.
- 24) Szeszulski J, Lanza K, Dooley EE, Johnson AM, **Knell G**, Walker TJ, Craig DW, Robertson MC, Salvo D, Kohl III HW. Y-PATHS: A conceptual framework for classifying the timing, how, and setting of youth physical activity. *J Phys Act Health*. 2021 Feb 13;18(3):310-317. doi: 10.1123/jpah.2020-0603. PubMed PMID: 33581685; PubMed Central PMCID: PMC8035289.
 - 23) Jetelina KK, **Knell G**, Molsberry RJ. Changes in intimate partner violence during the early stages of the COVID-19 pandemic in the USA. *Inj Prev*. 2021 Feb;27(1):93-97. doi: 10.1136/injuryprev-2020-043831. Epub 2020 Sep 1. PubMed PMID: 32873603.
 - 22) Lanza K, Oluyomi A, Durand C, Gabriel KP, **Knell G**, Hoelscher DM, Ranjit N, Salvo D, Walker TJ, Kohl III HW. Transit environments for physical activity: Relationship between micro-scale-built environment features surrounding light rail stations and ridership in Houston, Texas. *J Transp Health*. 2020 Dec;19:100924. doi: 10.1016/j.jth.2020.100924. Epub 2020 Aug 28. PubMed PMID: 32904408; PubMed Central PMCID: PMC7455164.
 - 21) *Weerakoon SM, Jetelina KK, **Knell G**. Longer time spent at home during COVID-19 pandemic is associated with binge drinking among US adults. *Am J Drug Alcohol Abuse*. 2021 Jan 2;47(1):98-106. doi: 10.1080/00952990.2020.1832508. Epub 2020 Dec 7. PubMed PMID: 33280423.
 - 20) Burford K*, Dooley E, Lanza K, **Knell G**. Associations of urbanicity and sociodemographic characteristics with protective health behaviors and reasons for leaving the home during COVID-19. *Health Psychology Bulletin*. 2020 November; 4(1). doi: <https://doi.org/10.5334/hpb.24>.
 - 19) †**Knell G**, †Berninger N, Gabriel K, Plasqui G, Crutzen R, Ten Hoor G. Bidirectional day-to-day associations of reported sleep duration with accelerometer measured physical activity and sedentary time among Dutch adolescents: an observational study. *J Measure Physical Behaviour*. 2020 October; 1(aop):1-11. doi: <https://doi.org/10.1123/jmpb.2020-0010>
 - 18) Morales-Marroquin E, Kohl III HW, **Knell G**, de la Cruz-Muñoz N, Messiah SE. Resistance training in post-metabolic and bariatric surgery patients: a systematic review. *Obes Surg*. 2020 Oct;30(10):4071-4080. doi: 10.1007/s11695-020-04837-1. Epub 2020 Jul 16. Review. PubMed PMID: 32671727.
 - 17) Shuval K, Sahar L, Gabriel KP, **Knell G**, Weinstein G, Gafni Gal T, Lobelo F, DiPietro L. Sedentary behavior, physical inactivity, and metabolic Syndrome: pilot Findings from the Rapid Assessment Disuse Index Study. *J Phys Act Health*. 2020 Sep 9;17(10):1042-1046. doi: 10.1123/jpah.2019-0645. PubMed PMID: 32908021.
 - 16) **Knell G**, Robertson MC, Dooley EE, Burford K, Mendez KS. Health behavior changes during COVID-19 pandemic and subsequent "Stay-at-Home" orders. *Int J Environ Res Public Health*. 2020 Aug 28;17(17). doi: 10.3390/ijerph17176268. PubMed PMID: 32872179; PubMed Central PMCID: PMC7504386.
 - 15) *Caze II TJ, **Knell G**, Abt J, Burkhart SO. Management and treatment of concussions via teleconcussion in a pediatric setting: methodological approach and descriptive analysis. *JMIR Pediatr Parent*. 2020 Aug 13;3(2):e19924. doi: 10.2196/19924. PubMed PMID: 32634106; PubMed Central PMCID: PMC7434418.

- 14) **Knell G**, Burkhart SO, Caze II TJ, Polousky JD, Kohl III HW, Messiah SE. Association between concussion history and factors relating to cognitive, behavioral, and emotional health among American high school athletes: a cross-sectional analysis. *Am J Sports Med*. 2020 Aug;48(10):2534-2543. doi: 10.1177/0363546520938776. Epub 2020 Jul 21. PubMed PMID: 32692937.
- 13) Taylor WC, Durand CP, **Knell G**. Disparity indices and overweight: frame of reference. *Health Equity*. 2019;3(1):612-618. doi: 10.1089/heap.2019.0064. eCollection 2019. PubMed PMID: 31872166; PubMed Central PMCID: PMC6918515.
- 12) **Knell G**, Salvo D, Shuval K, Durand CP, Kohl III HW, Gabriel KP. A methodological approach to retaining accelerometers and associated data in community-based settings: The TRAIN Study. *Journal for the Measurement of Physical Behavior*. 2019 August; 2(3) 197-202. doi: doi.org/10.1123/jmpb2018-0039
- 11) **Knell G**, Brown HS, Gabriel KP, Durand CP, Shuval K, Salvo D, Kohl III HW. Cost-effectiveness of improvements to the built environment intended to increase physical activity. *J Phys Act Health*. 2019 May 1;16(5):308-317. doi: 10.1123/jpah.2018-0329. Epub 2019 Apr 13. PubMed PMID: 30982380; PubMed Central PMCID: PMC6543547.
- 10) **Knell G**, Durand CP, Kohl III HW, Wu IHC, Pettee Gabriel K. Prevalence and likelihood of meeting sleep, physical activity, and screen-time guidelines among US youth. *JAMA Pediatr*. 2019 Apr 1;173(4):387-389. doi: 10.1001/jamapediatrics.2018.4847. PubMed PMID: 30715096; PubMed Central PMCID: PMC6450269
- 9) Oluoyomi AO, **Knell G**, Durand CP, Mercader C, Salvo D, Sener IN, Gabriel KP, Hoelscher DM, Kohl III HW. Foot-based audit of streets adjacent to new light rail stations in Houston, Texas: measurement of health-related characteristics of the built environment for physical activity research. *BMC Public Health*. 2019 Feb 28;19(1):238. doi: 10.1186/s12889-019-6560-4. PubMed PMID: 30819121; PubMed Central PMCID: PMC6393971.
- 8) **Knell G**, Li Q, Pettee Gabriel K, Shuval K. Long-term weight loss and metabolic health in adults concerned with maintaining or losing weight: findings from NHANES. *Mayo Clin Proc*. 2018 Nov;93(11):1611-1616. doi: 10.1016/j.mayocp.2018.04.018. Epub 2018 Aug 14. PubMed PMID: 30119916; PubMed Central PMCID: PMC6526934.
- 7) **Knell G**, Durand CP, Shuval K, Kohl III HW, Salvo D, Olyuomi A, Gabriel KP. If you build it, will they come? A quasi-experiment of sidewalk improvements and physical activity. *Transl J Am Coll Sports Med*. 2018 May;3(9):66-71. PubMed PMID: 30148210; PubMed Central PMCID: PMC6105313.
- 6) **Knell G**, Durand CP, Shuval K, Kohl III HW, Salvo D, Sener I, Gabriel KP. Transit use and physical activity: Findings from the Houston travel-related activity in neighborhoods (TRAIN) study. *Prev Med Rep*. 2018 Mar;9:55-61. doi: 10.1016/j.pmedr.2017.12.012. eCollection 2018 Mar. PubMed PMID: 29340271; PubMed Central PMCID: PMC5766755.
- 5) Gabriel KP, Whitaker KM, Duprez D, Sternfeld B, Lewis CE, Sidney S, **Knell G**, Jacobs DR Jr. Clinical importance of non-participation in a maximal graded exercise test on risk of non-fatal and fatal cardiovascular events and all-cause mortality: CARDIA study. *Prev Med*. 2018 Jan;106:137-144. doi: 10.1016/j.ypmed.2017.10.025. Epub 2017 Nov 2. PubMed PMID: 29080827; PubMed Central PMCID: PMC6400469.
- 4) **Knell G**, Gabriel KP, Businelle MS, Shuval K, Wetter DW, Kendzor DE. Ecological momentary assessment of physical activity: validation study. *J Med Internet Res*. 2017 Jul 18;19(7):e253. doi: 10.2196/jmir.7602. PubMed PMID: 28720556; PubMed Central PMCID: PMC5539388.

- 3) Durand CP, Oluyomi AO, Gabriel KP, Salvo D, Sener IN, Hoelscher DM, **Knell G**, Tang X, Porter AK, Robertson MC, Kohl III HW. The effect of light rail transit on physical activity: design and methods of the Travel-Related Activity in Neighborhoods Study. *Front Public Health*. 2016;4:103. doi: 10.3389/fpubh.2016.00103. eCollection 2016. PubMed PMID: 27376051; PubMed Central PMCID: PMC4899453.
- 2) Durand CP, Tang X, Gabriel KP, Sener IN, Oluyomi AO, **Knell G**, Porter AK, Oelscher DM, Kohl III HW. The association of trip distance with walking to reach public transit: data from the California Household Travel Survey. *J Transp Health*. 2016 Jun;3(2):154-160. doi: 10.1016/j.jth.2015.08.007. Epub 2015 Sep 19. PubMed PMID: 27429905; PubMed Central PMCID: PMC4941821.
- 1) Durand C, Oluyomi A, Sener I, **Knell G**, Gabriel K, Kohl III HW. Физическая активность, связанная с передвижением: определение, состояние и направления исследований. *Profilakticheskaya Meditsina*. 2014; 17(1). PMCID: Not available - published in Cyrillic characters.

Under review

Knell G, Brayton RP, Johnson AM, Walker TJ, Kohl III HW. Associations between sport participation and achieving the recommended levels of physical activity and sleep among American adolescents.

Knell G, Mathew MS, Brayton RP, Burkhardt SO, Polousky JD. Children's Health Andrews Institute Monitoring Platform for Sport Related Injuries (CHAMP-SRI): methodology and incident injury rates from 2008-2019.

*Cox C, Messiah SE, **Knell G**. Learning modality and quality of life among U.S. school-age children during the coronavirus pandemic.

*Weerakoon SM, **Knell G**, Valerio-Shewmaker MA, Messiah SE, Identifying health communication and literacy barriers to COVID-19 vaccine uptake among US adults.

In preparation

Reports/white papers

Nehme E, Byars A, **Knell G**, Oluyomi A. The South Lamar corridor study health impact assessment. Prepared by Hexagon Consulting Services. Prepared for HDR Engineering and Department of Transportation, City of Austin, Austin, Texas. URL: http://www.moveaustinforward.com/wp-content/uploads/2016/08/AppendixE_HIA.pdf. [[Archived by WebCite® at http://www.webcitation.org/6qaIgWP9c](http://www.webcitation.org/6qaIgWP9c)]. July 2015. Accessed 19 May 2017.

PROFESSIONAL PRESENTATIONS

Oral presentations

*Price AM, **Knell G**, Caze TJ, Abt JP, Loveland D, Burkhardt SO. Exploring vestibular/ocular and cognitive dysfunction as prognostic factors for protracted recovery in sports-related concussion patients aged 8-12 years. *Sports Neuropsychology Society Annual Meeting*. Dallas, TX, USA. July, 2021.

Awarded: Outstanding Trainee Award

Craig DW, Szeszulski J, Dooley EE, Johnson AM, **Knell G**, Lanza K, Robertson MC, Walker TJ, Kohl III HW, & Fernandez ME. Development and evaluation of youth physical activity interventions using the Youth Physical Activity: Timing, How, and Setting (Y-PATHS) framework. Accepted as an oral presentation at the *International Society of Behavioral Nutrition and Physical Activity XChange Initiative 2021*. Online. June 2021.

Szeszulski J, Lanza K, Dooley EE, Johnson AM, **Knell G**, Walker TJ, Craig DW, Robertson MC, Salvo D, and Kohl III HW. Surveillance applications for the novel Youth Physical Activity Timing, How, and Setting (Y-PATHS) Framework. Accepted as an oral presentation at the *Society of Behavioral Medicine Conference*. Online. April 2021.

*Caze TJ II, Price A, **Knell G**, Ellis C, Abt J, Burkhart SO. The clinical utility of the vestibular and ocular motor screening for protracted recovery in pediatric concussion patients. Oral presentation. *Pediatric Research in Sports Medicine (PRISM) Annual Conference*. Houston, Texas, USA. January 2021.

Awarded: 2021 Mininder S. Kocher Award for Most Promising Career

*Caze TJ II, Ellis C, **Knell G**, Price A, Abt J, Burkhart SO. Mechanism of injury impacts concussion recovery. Oral presentation. *Pediatric Research in Sports Medicine (PRISM) Annual Conference*. Houston, Texas, USA. January 2021.

Knell G, Durand CP, Shuval S, Kohl III HW, Sener IN, Gabriel KP. Transit use and physical activity: Findings from the Houston Travel-Related Activity in Neighborhoods (TRAIN) Study. Oral presentation. *Active Living Research Conference 2018*. Banff, Alberta, Canada. February, 2018.

Knell G, Gabriel KP, Durand CP, Salvo D, Kohl III HW. Relationship between physical activity and public transit use. Oral thematic poster presentation. *International Society for Physical Activity and Health 6th Annual Congress*. Bangkok, Thailand. November, 2016.

Knell G, Salvo D, Gabriel KP, Durand CP, Oluyomi A, Robertson M, Hoelscher DM, Kohl III HW III. Describing the methodology to estimate accelerometer return percentage from a study utilizing mail-based data collection. Oral thematic poster presentation. *American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA. June, 2016.

Knell G, Gabriel KP, Businelle M, Shuval K, Kendzor D. Convergent validity of ecological momentary assessment to assess free-living sedentary behavior and physical activity. Oral thematic poster presentation. *American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA. June, 2016.

Kohl III HW, Durand CP, Gabriel KP, **Knell G**, Sener IN, Tang X, Hoelscher DM. Health in All Policies: Multi-sectoral policy approaches for encouraging physical activity session. Natural Experiments and Physical Activity at the Local Level: Houston TRAIN study. Round-table presentation. *American Public Health Association Annual Meeting Physical Activity Section*. Chicago, IL, USA. November, 2015.

Knell G, Morrow JR, Vingren J, Jackson AW. Reliability of an online system to assess muscle-strengthening activities in kinesiology students. Oral presentation. *American College of Sports Medicine 61st Annual Meeting*. Orlando, FL, USA. May, 2014.

Poster presentations

*Caze T II, **Knell G**, Burkhart SO. Accuracy and consistency in athletic trainer reporting of concussions from 2016-2020. *6th International Consensus Conference on Concussion in Sport*. October 2022. Amsterdam, NL.

*Caze T II, **Knell G**, Burkhart SO. The vestibular and ocular motor screener (VOMS) as a measure of protracted recovery in youth and adolescent concussion. *6th International Consensus Conference on Concussion in Sport*. October 2022. Amsterdam, NL.

*Burford K, Dooley E, Lanza K, **Knell G**. Associations of urbanicity and sociodemographic characteristics with protective health behaviors and reasons for leaving the home during COVID-19. *St. David's CHPR 19th Annual Conference, Health Promotion in the COVID-19 Era*. February 2021. Austin, TX, USA.

*Price AM, Caze II TJ, **Knell G**, Ellis C, Abt J, & Burkhart SO. Post-concussion physical therapy referrals. *Pediatric Research in Sports Medicine 8th Annual Meeting*. January 2021. Houston, TX, USA.

Burkhart S, **Knell G**, Abt J, Mathew MS, Loveland D. Sports incident injury rates from 2007-2019 using the Children's Health Andrews Institute Monitoring Platform for Sports Related Injuries (CHAMP-SRI). *American Orthopedic Society for Sports Medicine Annual Meeting*. July 2021. Nashville, TN, USA.

Knell G, Burkhart SO, Caze II T, Polousky JD, Kohl III HW, Messiah SM. Association between concussion history and cognitive, behavioral, and emotional risk factors among American high school athletes: A cross-sectional analysis. *American Public Health Association Annual Meeting*. San Francisco, CA, USA. October, 2020.

*Caze II TJ, Price A, **Knell G**, Burkhart SO. (2020, April 16-18). VOMS scores relationship to King-Devick scores in males. *Sports Neuropsychology Society Annual Meeting*, Dallas, TX, USA. July, 2020.

*Price A, Caze II TJ, **Knell G**, Burkhart SO.(2020, April 16-18).VOMS scores relationship to C3 Logix Trail scores in females. *Sports Neuropsychology Society Annual Meeting*, Dallas, TX, USA. July, 2020.

Lanza K, Oluyomi A, Durand C, Ranjit N, **Knell G**, Walker TJ., Hoelscher DM, Kohl III HW. Micro-scale transit environments for physical activity: The relationship between different domains of built environment features surrounding light rail train stations and ridership, the Houston TRAIN Study. *Active Living Research Conference 2020*. Orlando, FL, USA. February 2-5, 2020.

Walker TJ, Craig DW, **Knell G**, Pavlovic A, Thiele S, Kohl III HW. Gender differences across health-related fitness measure among elementary-aged children: a cross sectional study. *Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Annual Meeting*. Bethesda, MD, USA. December 11, 2019.

Shuval K, Li Q, Yaroch A, **Knell G**, Gabriel KP, Drope J. Long term weight loss success and health behaviors among adults in the United States. *International Society of Behavioral Nutrition and Physical Activity (ISBNA) Annual Conference*. Prague, Czech Republic. June 4-7, 2019.

†Gabriel KP, †Durand CP, **Knell G**, Salvo D, Dooley E, Johnson A, Kohl III HW. Physical activity and sedentary behavior phenotypes in a majority-minority community-based sample:

Houston TRAIN Study. *American Heart Association Epidemiology, Prevention, Lifestyle & Cardiometabolic Health*. Houston, TX. March 5-8, 2019.

Dooley EE, Salvo D, Gabriel KP, Johnson AM, Durand CP, **Knell G**, Kreis SJ, Sener IN, Kohl III HW. Factors related to accelerometer-determined patterns of physical activity in adults within The Houston TRAIN Study. Presented at the *American College of Sports Medicine 64th Annual Meeting*. Minneapolis, MN, USA. May, 2018.

Johnson AM, Dooley EE, Salvo D, Kohl III HW, Durand CP, **Knell G**, Kreis SJ, Gabriel KP. Accelerometer-determined physical activity and sedentary behavior among majority-minority sample of adults: The Houston TRAIN Study. Presented at the *American College of Sports Medicine 64th Annual Meeting*. Minneapolis, MN, USA. May, 2018.

Shuval K, **Knell G**, Li Qing, Gabriel KP. Long-term weight loss and metabolic syndrome in U.S. adults. Presented at the *Society for Behavioral Medicine 39th Annual Meeting & Scientific Sessions*. New Orleans, LA, USA. April, 2018.

Johnson AM, Dooley EE, Salvo D, Kohl III HW, Durand CP, **Knell G**, Kreis SJ, Gabriel KP. Accelerometer-determined physical activity and sedentary behavior among majority-minority sample of adults: The Houston TRAIN Study. Presented at the *Texas Chapter of the American College of Sports Medicine 2018 Annual Meeting*. Austin, TX, USA. March, 2018.

Johnson AM, Dooley EE, Salvo D, Kohl III HW, Durand CP, **Knell G**, Kreis SJ, Gabriel KP. Accelerometer-determined physical activity and sedentary behavior among majority-minority sample of adults: The Houston TRAIN Study. Presented at the *St. David's Center for Health Promotion & Disease Prevention Annual Conference: "Health Disparities in the Precision Health Era."* Austin, TX, USA. February, 2018.

Knell G, Durand CP, Shuval K, Kohl III HW, Salvo D, Olyuomi A, Gabriel KP. If you build it, will they come? A natural experiment of sidewalk improvements and physical activity. Accepted for presentation at the Pathways 2 Prevention Workshop, Methods of Evaluating Natural Experiments in Obesity. *National Institutes of Health*. Bethesda, MD, USA. December, 2017.

*Fresquez J, **Knell G**, Durand CP. A randomized controlled trial using Amazon Mechanical Turk to determine the effect of questionnaire wording on response patterns. Accepted for presentation at the Summer Undergraduate Innovation in Cancer Prevention Research Seminar. *Cancer Prevention Research Institute of Texas (CPRIT)*. Houston, TX, USA. July, 2017.

Xiaohui T, Durand CP, Salvo D, Gabriel KP, **Knell G**, Porter A, Sener IN, Hoelscher DM, Robertson M, Kohl HW. Application of theory of planned behavior to transit use: The Houston TRAIN Study. Accepted for presentation at the *American College of Sports Medicine 63rd Annual Meeting*. Boston, MA, USA. May, 2016.

Knell G, Gabriel KP, Durand CP, Olyuomi A, Armstrong M, Kohl HW. Obtaining accelerometer data through mail administration: The Houston Transport Related Activity in Neighborhoods (TRAIN) Study. Accepted for presentation at the *American College of Sports Medicine 62nd Annual Meeting*. San Diego, CA, USA. May, 2015.

Xiaohua T, Olyuomi A, Durand CP, **Knell G**, Gabriel KP, Sener IN, Hoelscher D, Kohl HW. Land use walkability around a newly built light rail transit line: The Houston TRAIN Study.

Accepted for presentation at the *American College of Sports Medicine 62nd Annual Meeting*. San Diego, CA, USA. May, 2015.

Gabriel KP, **Knell G**, Durand CP, Oluyomi A, Kohl III HW. Differences in accelerometer-determined sedentary time and physical activity by transportation-related characteristics. Accepted for presentation at the *American College of Sports Medicine 62nd Annual Meeting*. San Diego, CA, USA. May, 2015.

Durand CP, Oluyomi A, Gabriel KP, Sener IN, Hoelscher DM, **Knell G**, Xiaohui T, Kohl III HW. The effect of light rail transit on physical activity: Design and methods of the Travel Related Activity in Neighborhoods (TRAIN) Study. Accepted for presentation at the *American College of Sports Medicine Conference “Moving Active Transportation to Higher Ground: Opportunities for Accelerating the Assessment of Health Impacts”* cosponsored by the *Transportation Research Board of the National Academies of Science*. Washington, D.C., USA. April, 2015.

Knell G, Jackson AW, Morrow JR. Health-related fitness in Texas children: 2010-2011 and 2011-2012 FITNESSGRAM® results. Presented at the *Texas Association for Health, Physical Education, Recreation and Dance Annual Convention*. Dallas, TX, USA. December, 2013.

Knell G, Morrow JR, Martin SB, Jackson AW. Health-related fitness in Texas children: 2011-2012 FITNESSGRAM® results. Presented *American College of Sports Medicine 60th Annual Meeting*. Indianapolis, IN, USA. May, 2013.

Taylor VK, Faulkner J, **Knell G**, Greenleaf C. Gender differences in body-related psychological constructs. Presented *Texas Association for Health, Physical Education, Recreation & Dance Annual Convention*. Dallas, TX, USA. December, 2011.

TEACHING EXPERIENCE

A. Courses

YEAR	COURSE NAME	ROLE	MODE	LEVEL	# OF STUDENTS	# of SECTIONS
<i>University of North Texas</i>						
2019	Epidemiology	Instructor of record	In-person	Undergraduate	65	1
2019	Introduction to Public Health	Instructor of record	In-person	Undergraduate	27	1
2018	Introduction to Public Health	Instructor of record	In-person	Undergraduate	35	1
2013	Scientific principles and practices of health-related fitness	Teaching fellow	In-person	Undergraduate	40	2
2011-2013	Various physical activity courses	Teaching fellow	In-person	Undergraduate	>100	6
<i>University of Texas School of Public Health</i>						

2021	Field research methods in epidemiology (Epi II)	Instructor	Hybrid	Doctoral and masters	64	5
2021	Advanced methods in epidemiology (Epi III)	Instructor	In-person	Doctoral and masters	42	6
2019	HPBS Research Seminar	Co-Instructor	In-person	Doctoral and masters	21	1
2018	HPBS Research Seminar	Co-Instructor	In-person	Doctoral and masters	24	1
2017	Advanced methods in epidemiology (Epi III)	Lead TA	ITV	Doctoral and masters	60	1
2016	Physical activity assessment and surveillance	TA	ITV	Doctoral and masters	6*	1
2015	Fundamentals of epidemiology (Epi I)	co-TA	Online	Doctoral and masters	60	1
	Physical activity and health: epidemiology and mechanisms	TA	ITV	Doctoral and masters	10*	1
2014	Field research methods in epidemiology (Epi II)	co-TA	ITV	Doctoral and masters	34	1
	Physical activity and public health practice	TA	ITV	Doctoral and masters	9*	1

University of Texas at Austin

2016	Epidemiology	Specialist	In-person	Undergraduate	60	2
	Social and environmental contexts of health	Specialist	In-person	Undergraduate	48	2
2015	Epidemiology	Specialist	In-person	Undergraduate	60	2

*Course also included students from the University of Texas at Austin; number not reflected here.

B. Guest Lectures

YEAR	LECTURE	INSTITUTION	INSTRUCTOR
2018	“Transit use and physical activity: Findings from the Houston Travel-Related Activity in Neighborhoods (TRAIN) Study”	UTSPH-Houston	Sally Vernon, PhD
2018	“Youth Behavior Risk Surveillance System”	UNT	Lee Ancona, PhD
2018	“Surprising scale of health benefits for biggest losers”	UTSPH-Houston	Anna Wilkinson, PhD

2018	“Ecological momentary assessment of physical activity”	UTSPH-Houston	Kelley Pettee Gabriel, PhD
2018	“Transit use and physical activity: Findings from the Houston Travel-Related Activity in Neighborhoods (TRAIN) Study”	UTSPH-Dallas	Wendell Taylor, PhD
2018	“Transit use and physical activity: Findings from the Houston Travel-Related Activity in Neighborhoods (TRAIN) Study”	UTSPH-Houston	Sally Vernon, PhD
2018	“Transit use and physical activity: Findings from the Houston Travel-Related Activity in Neighborhoods (TRAIN) Study”	Texas A&M University	Heather Clark, PhD
2017	“Convergent validity of ecological momentary assessment of physical activity: Data from the PATHS Study”	UTSPH/UT Austin	Kelley Pettee Gabriel, PhD
2016	“Measuring physical activity: pitfalls and advances in technology”	UTSPH/UT Austin	Harold W. Kohl, III, PhD
2015	“Ecological momentary assessment of physical activity”	UTSPH/UT Austin	Kelley Pettee Gabriel, PhD

C. Mentorship

YEAR	STUDENT NAME	LEVEL & INSTITUTION	PROJECT NAME	ROLE
2020-	Jennifer Hale, DPT	Doctoral, UTHealth	The association of reported and accelerometer-derived physical activity with Parkinson’s Disease in women.	Dissertation Chair and academic advisor
2021-	August Price, PsyD	Post-doctoral, UTSW	Various	Fellowship mentor
2021-2022	Riley Brayton	Masters, UTHealth	Attendance and quality of postpartum care appointments among PRAMS respondents, 2016-2018	Thesis chair and academic advisor
2020	Hye Sun Kim	Undergraduate, CPRIT	Independent and joint associations of sleep and physical activity with obesity among Texas children	Primary mentor CPRIT summer fellowship
2020	Todd Caze, II, PhD	Post-doctoral, UTSW	Various	Fellowship mentor

2019	Sitara Weerakoon, MPH	Doctoral, UTHHealth	Behavioral factors affecting sport-related concussion recovery time for adolescents	Mentored development of online based data collection tool
2017	Samantha Kreis	Masters, UTHHealth	Examining the role of neighborhood self-selection on relocation and its effects on physical activity: A prospective analysis of the TRAIN Study cohort.	Mentored on manuscript preparation and statistical analysis
2017	Joseph Fresquez	Undergraduate, CPRIT	A randomized controlled trial using Amazon Mechanical Turk to determine the effect of questionnaire wording on response patterns.	Co-mentor CPRIT summer fellowship

MEDIA COVERAGE OF RESEARCH

US News & World Report, “Only 5 Percent of Adolescents Meet Sleep, Exercise, Screen Time Guidelines.” By By Alexa Lardieri, February 4, 2019. Focuses on findings from **Knell et al. 2019**, “Prevalence and Likelihood of Meeting Sleep, Physical Activity, and Screen-Time Guidelines Among US Youth.” *Journal of the American Medical Association (JAMA) Pediatrics*. Available at <https://www.usnews.com/news/health-news/articles/2019-02-04/study-only-5-percent-of-adolescents-meet-sleep-exercise-screen-time-guidelines> Accessed: 2019-02-04. (Archived by WebCite® at <http://www.webcitation.org/75wv1HTL6>).

CNN, “Your teen probably isn't sleeping or exercising enough; here's what you can do to help.” By Dr. Edith Bracho-Sanchez, February 4, 2019. Focuses on findings from **Knell et al. 2019**, “Prevalence and Likelihood of Meeting Sleep, Physical Activity, and Screen-Time Guidelines Among US Youth.” *Journal of the American Medical Association (JAMA) Pediatrics*. Available at <https://www.cnn.com/2019/02/04/health/teen-sleep-exercise-screen-time-study/index.html> Accessed: 2019-02-04. (Archived by WebCite® at <http://www.webcitation.org/75wq3ogZS>).

Reuters, “Most U.S. kids not meeting sleep, exercise and screen time targets.” By Lisa Rapaport, February 4, 2019. Focuses on findings from **Knell et al. 2019**, “Prevalence and Likelihood of Meeting Sleep, Physical Activity, and Screen-Time Guidelines Among US Youth.” *Journal of the American Medical Association (JAMA) Pediatrics*. Available at <https://www.reuters.com/article/us-health-youth-life-idUSKCN1PT20S> Accessed: 2019-02-14. (Archived by WebCite® at <http://www.webcitation.org/75wqP2vC5>)

TRT World, “Quarter of world’s adults don’t get enough exercise.” Offered commentary on WHO report on worldwide prevalence of physical inactivity. Available at <https://www.drgregoryknell.me/news/>. Accessed 2018-09-20.

CNN, “'Pandemic' of inactivity increases disease risk worldwide, WHO study says.” By Susan Scutti, September 4, 2018. Highlights findings from **Knell et al. 2018**, “If you build it, will they come? A quasi-experimental evaluation of sidewalk improvements and changes in physical activity.” *Translational Journal of the American College of Sports Medicine*. Available at <https://www.cnn.com/2018/09/04/health/exercise-physical-activity-who-study/>. Accessed: 2018-09-05. (Archived by WebCite® at <http://www.webcitation.org/72CiJeQKN>).

New York Times, “Any Weight Loss Can Be Healthful, but More Can Be Much Better.” By Nicholas Bakalar, August 15, 2018. Focuses on findings from **Knell et al. 2018**, “Long term weight loss and metabolic health in adults concerned with maintaining or losing weight: findings from NHANES.”

Mayo Clinic Proceedings. Available at <https://www.nytimes.com/2018/08/15/well/eat/any-weight-loss-can-be-healthy-but-more-can-be-much-better.html>. Accessed: 2018-08-16. (Archived by WebCite® at <http://www.webcitation.org/71iff6xis>).

PROFESSIONAL SERVICE

External service

Board membership

2020- Scientific Advisory Board, Med Outreach, Dallas, Texas

Ad-Hoc peer review

2020 BMC Public Health
Preventing Chronic Disease
Journal of Affective Disorders
Pediatrics
Brain Research

2019 Journal of Medical Internet Research
Journal of American Medical Association – Pediatrics
BMC Public Health

2018 Journal of Public Health
Journal of Sport and Health Science
Journal of Clinical Medicine
International Journal of Environmental Research and Public Health
BMC Public Health

2017 CA: A Cancer Journal for Clinicians

Consultancy

2017 Nutrition Policy Institute, California Health and Nutrition Goals Examination Survey, physical activity survey questionnaire review.

Internal service and committees

2020- Member, Epidemiology Preliminary Examination Committee, University of Texas Health Science Center (UTHealth) School of Public Health in Dallas
Alternate, Faculty Council, University of Texas Health Science Center (UTHealth) School of Public Health in Dallas
Member, Epidemiology Curriculum Committee, University of Texas Health Science Center (UTHealth) School of Public Health in Dallas

2020 Reviewer, Summer 2020 Epidemiology Preliminary Examination, University of Texas Health Science Center (UTHealth) School of Public Health in Dallas
Faculty Search Committee, Center for Pediatric Population Health, University of Texas Health Science Center (UTHealth) School of Public Health in Dallas
Faculty Search Committee, Michael & Susan Dell Center for Healthy Living, University of Texas Health Science Center (UTHealth) School of Public Health in Austin

2019 Parental Leave Policy Faculty Advisory Committee, University of Texas Health Science Center (UTHealth) at Houston, Houston, Texas

- 2017 Abstract Reviewer, PDA Travel Award, Postdoctoral Association, University of Texas Health Science Center (UTHealth) at Houston, Houston, Texas
- 2016-2017 Committee Member, Special Advisory Committee on Graduate Student Caregivers' Needs, The Graduate School, The University of Texas at Austin, Austin, Texas
- 2016-2017 Doctoral Student Representative, UTHealth School of Public Health in Austin Student Association

Other service activities

- 2016 Academic Tutor, Breakthrough Austin, Austin, Texas
- Meal Provider Team Leader, Friends of the House Charities – Ronald McDonald House Charities, Austin, Texas
- 2007-2012 Tournament Director, Team Viva Lacrosse Club, Dallas, Texas
- 2008-2010 Young Professional Advisory Committee, BRIDGE Lacrosse, Dallas, Texas
- 2008-2010 President, Dallas Lacrosse Club, Dallas, Texas

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- 2019- Pediatric Research in Sports Medicine Society (PRiSM)
- 2019- Society for Epidemiologic Research (SER)
- 2011- American Public Health Association (APHA)
- 2011- American College of Sports Medicine (ACSM)