

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

2003-2007	University of Pittsburgh Pittsburgh, PA	BS, 2007 <i>Summa Cum Laude</i>	Biologic Sciences
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Graduate

2007-2011	University of Pittsburgh Pittsburgh, PA	PhD, 2011	Epidemiology	Advisor: Joseph Zmuda, PhD
2007-2011	University of Pittsburgh Pittsburgh, PA	Certificate, 2011	Public Health Genetics	Advisor: Candace Kammerer, PhD
2008-2011	University of Pittsburgh Pittsburgh, PA	NHLBI Cardiovascular Disease Training Grant Pre-Doctoral Fellow	Epidemiology	Director: Kim Sutton-Tyrrell, DrPH

Post-Graduate

2011-2014	University of Pittsburgh Pittsburgh, PA	NHLBI Cardiovascular Disease Training Grant Post-Doctoral Fellow	Epidemiology	Directors: Kim Sutton-Tyrrell, DrPH and Trevor Orchard, MD
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APPOINTMENTS AND POSITIONS

Academic

2007-2008	Graduate Student Researcher	Molecular Epidemiology Lab, Epidemiology, University of Pittsburgh, Pittsburgh, PA
2008-2011	Pre-Doctoral Fellow	Cardiovascular Epidemiology Training Grant, Epidemiology, University of Pittsburgh, Pittsburgh, PA
2011-2014	Post-Doctoral Fellow	Cardiovascular Epidemiology Training Grant, Epidemiology, University of Pittsburgh, Pittsburgh, PA
2014-2017	Visiting Assistant Professor	Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2017-	Assistant Professor (non- tenure track)	Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2018	Appointment to the Graduate Faculty	Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
Non-Academic		
2004-2007	Undergraduate Researcher	Molecular Epidemiology Laboratory, Epidemiology, University of Pittsburgh, Pittsburgh, PA

CERTIFICATION AND LICENSURE

Specialty Certification

2008	Certified to read 4-image carotid artery ultrasound scans	University of Pittsburgh Ultrasound Research Lab
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MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2005	American Society of Human Genetics
2006	International Osteoporosis Foundation
2008-2016	The American Society of Bone and Mineral Research
2008-Present	The American Heart Association

HONORS

2004	Inducted into the Lambda Sigma Honor Society
2004	Inducted into the Phi Eta Sigma Honor Society
2004	Inducted into the National Society of Collegiate Scholars
2006	Inducted into The Golden Key International Honour Society
2006	Inducted into The National Scholars Honor Society
2007	Inducted into the Phi Beta Kappa National Honor Society
2010	Recipient of the ASBMR President's Poster Award
2012	Recipient of a travel scholarship to attend the Personal Genomes and Medical Genomics Conference at Cold Spring Harbor Laboratory in New York
2016	Recipient of the John Haddad Young Investigator Award at the Advances in Mineral Metabolism Conference by the American Society of Bone and Mineral Research
2017	Finalist for the Sandra A Dougherty Award for Excellence in Cardiovascular or Hypertension Research at the American Health Association Council on Epidemiology and Lifestyle Annual Conference
2018	Travel Award Recipient for the ACC/AGS/NIA Diagnostic Testing in Older Adults Workshop in Washington DC

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture; Credits; Enrollment	Role
2008-2011	EPIDEM 2601: Molecular Epidemiology Laboratory	45 hrs, 3 credits Avg. Enrollment: 6	Teaching Assistant for Dr. Zmuda
2011	EPIDEM 2152: Student Workshop in Epidemiology	15 hrs, 1 credit Avg. Enrollment: 8	Teaching Assistant and Coordinator for Drs. Sutton-Tyrrell and Barinas-Mitchell
2016-2018	EPIDEM 2250: Seminar in Epidemiology	15 hrs, 1 credit Avg. Enrollment: 30	Co-Director with Evelyn Talbott
2018-	EPIDEM 2600: Molecular Epidemiology	45 hrs, 3 credits Avg. Enrollment: 20	Co-Director with Joseph Zmuda

b. Other Teaching

Date(s)	Type of Teaching	Title
2012	Guest Lecturer in EPIDEM 2600: Molecular Epidemiology	“Genetic Epidemiology and Linkage Analysis in Cardiovascular Disease”
2013	Guest Lecturer in EPIDEM 2600: Molecular Epidemiology	“Cardiovascular Genetics: The Role of Linkage Analysis”
2013-2014	Coordinator of the Subclinical Cardiovascular Disease Journal Club	Various presentations
2013-2017	Guest Lecturer in EPIDEM 2600: Molecular Epidemiology	“Heredity and Modes of Inheritance”
2013- ongoing	Guest Lecturer in EPIDEM 2110: Principles of Epidemiology	“Genetic Epidemiology”

2014-2017	Guest Lecturer in EPIDEM 2170: Chronic Disease Epidemiology	“Epidemiology of Musculoskeletal Diseases”
2015-2017	Guest Lecturer in EPIDEM 2600: Molecular Epidemiology	“Molecular Epidemiology of Cardiovascular Disease”
2015	Guest Lecturer in EPIDEM 2170: Chronic Disease Epidemiology	“Chronic Disease Surveillance”
2016	Guest Lecturer in EPIDEM 2152: Workshop in Epidemiology	“The NIH Mentored Career Development Award”
2017	Guest Lecturer in EPIDEM 2152: Workshop in Epidemiology	“How Subclinical CVD Fits into the Human Chronic Disease Puzzle”
2019	Guest Lecturer in HIM 1462: Epidemiology	“Molecular Epidemiology”

c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

Dates Served	Student Name	Degree Awarded	Document Type; Title
2015-2018	Ryan Cvejkus	MS Epidemiology – April 2018	MS Thesis: “The Association of Objectively Measured Physical Activity on Blood Pressure and the Prevalence of Hypertension in African Ancestry Men”
2016-2018	Amanda Delligatti	MPH Epidemiology –April 2018	MPH Essay: “Multimorbidity and Functional Capacity in Geriatric Patients with Cardiovascular Disease”
2018	Yuan Yang	MPH Epidemiology –Dec 2018	MPH Essay: “Genetic Determinants of the Cardiovascular Biomarker: B-type natriuretic peptide”

2020	Julia Yudkovicz	MPH Epidemiology –Apr 2020	MPH Essay: “The Genetic Correlation Between Cardiometabolic Disease and Functional Status in Long-lived Adults”
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d. Service on Masters or Doctoral Committees

Dates Served	Student Name	Degree	Dept./School	Title
2015- 2016	Kelly Johnson (Committee Member and Essay Reader)	MS/MPH – Apr 2016	Human Genetics/GSPH	“Genome- Wide Association Studies of Childhood Bone”
2015-2018	Ryan Cvejkus (Academic Advisor)	MS – Apr 2018	Epidemiology/ GSPH	“The Association of Objectively Measured Physical Activity on Blood Pressure and the Prevalence of Hypertension in African Ancestry Men”
2015-2018	Pallavi Jonnalagadda (Committee Member)	DrPH – Dec 2018	Epidemiology/ GSPH	“Cortical Bone Health in African Ancestry Men”
2016-2018	Amanda Delligatti (Academic Advisor)	MPH – Apr 2018	Epidemiology/ GSPH	“Multimorbidity and Functional Capacity in Geriatric Patients with Cardiovascular Disease”
2017- 2018	Michaela Holliday (Essay Reader)	MPH – Apr 2018	Human Genetics/GSPH	“Prevalence of Inflammatory Disorders in Huntington’s Disease”
2017-2018	Kelsea LaSorda (Essay Reader)	MPH – Apr 2018	Epidemiology/ GSPH	“Heritability and Prevalence of Physical Fatigability in the Long Life Family Study”

2018	Yuan Yang (Research Mentor)	MPH – Dec 2018	Epidemiology/ GSPH	“Genetic Determinants of the Cardiovascular Biomaker: B-type natriuretic peptide”
2018-ongoing	Rehab Sherlala (Committee Member)	PhD – plan grad Apr 2020	Human Genetics/GSPH	“Relationship between TGF-1 and Adiposity, and the risk of Mortality in the Long Life Family Study”
2019	Jacqueline Cohen (Essay Reader)	MPH – Apr 2019	Human Genetics/GSPH	“Relationship between Cognition and Statin Use by Genotype at <i>APOE</i> & Three Proinflammatory Cytokine Loci in the Long Life Family Study”
2019-2020	Julia Yudkovicz (Research Mentor)	MPH – Apr 2020	Epidemiology/ GSPH	“The Genetic Correlation Between Cardiometabolic Disease and Functional Status in Long-lived Adults”
2020	Marilyn Ngo (Essay Reader)	MPH – Apr 2020	Human Genetics/GSPH	“Investigating Known Pathogenic Variants for Familial Hypercholesterolemia in a Samoan Population”
2020	Jodi Kutner (Essay Reader)	MPH – Apr 2020	Human Genetics/GSPH	“Association Analysis of the LTA/TNF/LTB Region on Chromosome 6p21 with Systemic Lupus Erythematosus (SLE)”
2020-ongoing	Claire Thomas (Committee Member)	PhD – plan grad Apr 2023	Epidemiology/ GSPH	TBD

e. Service on Comprehensive or Qualifying Examination Committees

Dates Served	Student Name	Examination	Dept./School
2017	Amanda Everman	MS Qualifying Exam	Human Genetics/ GSPH

2018	Ryan Cvejkus	MS Comprehensive Exam	Epidemiology/GSPH
2018	Rehab Sherlala	PhD Qualifying Exam	Human Genetics/ GSPH
2018	Pallavi Jonnalagadda	DrPH Overview and Comprehensive Exam	Epidemiology/GSPH
2019	Dongjing Liu	PhD Qualifying Exam	Human Genetics/ GSPH
2019	Rehab Sherlala	PhD Comprehensive Exam	Human Genetics/GSPH

f. Supervision of Post-Doctoral Students, Residents, and Fellows

Not Applicable

g. Mentoring of Graduate Students in Field Placement

Dates Served	Student Name	Degree	Dept./School	Project Title
2018	Yuan Yang (Internship Preceptor)	MPH	Epidemiology/ GSPH	“The Genetic Determinants of the Cardiovascular Disease Biomarker: B- type Natriuretic Peptide”
2019	Julia Yudkovicz (Internship Preceptor)	MPH	Epidemiology/ GSPH	“The Genetic Correlation between CVD and Cognitive and Physical Functioning”
2020	Alayna Holderman (Research Rotation)	PhD	Human Genetics/GSPH	TBD

h. Other Teaching and Training

2012	Genetic epidemiology consultant on international PhD thesis review	“Obesity, Physical Activity and Cardiorespiratory Fitness in Young Adulthood”
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2015	Mentor to Epidemiology PhD Student Qian Zhao	During leave of absence by Advisor
2015	Mentor to Epidemiology MS Student Curtis Tilves	During leave of absence by Advisor

2. Research and Training

a. Grants and Contracts Received

Years	Grant Title; Number	Source	Total Direct Costs	% Effort
Principal Investigator				
Past:				
2010	Hepatocyte Nuclear Factor (HNF)-4 Alpha Gene Variants and Triglycerides in Men of Afro-Caribbean Ancestry	Department of Epidemiology Small Grants Program	\$7,000	N/A
2013	Type 2 Diabetes, Subclinical Cardiovascular Disease and Ectopic Fat Depots in African Men	University of Pittsburgh Ultrasound Research Lab R&D Grant	\$7,000	N/A
2018-2019	Circulating Autophagy Related 7 (ATG7) Protein as a Biomarker of Aging	Aging Institute of UPMC	\$67,255	10%
2015-2020	Molecular Epidemiology of the Wnt Pathway in Subclinical Cardiovascular Disease; K01-HL125658	NIH/NHLBI	\$692,622	90%
Current:				
2018-2020	Molecular Epidemiology of Aortic Diameter and Subclinical Cardiovascular Disease; R03-HL144668	NIH/NHLBI	\$183,871	10%

Co-Principal Investigator

Not Applicable

Co-Investigator

Current:

2018-2022	Epidemiology of Obesity, Diabetes, and Hypertension in African Caribbeans; R01-HL143793	NIH/NHLBI	\$1,789,108	5%
2019-2024	The Long Life Family Study	NIH/NIA	\$68,574,028	50%

b. Invited Lectureships and Major Seminars Related to Your Research

Date	Title	Venue
March 29, 2012	“Molecular Epidemiology: Building a Bridge between Population and Basic Sciences”	Co-Lecturer, Department of Epidemiology Seminar (EPIDEM 2250), University of Pittsburgh, Pittsburgh, PA
April 4, 2012	“Genetic Epidemiology and Linkage Analysis in Cardiovascular Disease”	Guest Lecturer, Department of Cardiology, Allegheny General Hospital, Pittsburgh, PA
April 3, 2017	“Molecular Epidemiology of Subclinical Cardiovascular Disease.”	University of Pittsburgh, Cardiovascular Epidemiology Conference, Pittsburgh, PA
March 1, 2018	“Investigating the Molecular Epidemiology of Subclinical Cardiovascular Disease: using population-based data to learn about biology”	Department of Epidemiology Seminar (EPIDEM 2250), University of Pittsburgh, Pittsburgh, PA
July 28, 2019	“Molecular Epidemiology of Vascular Aging: using population-based data to learn about biology”	Department of Epidemiology Special Seminar, Mayo Clinic, Rochester, MN
August 3, 2019	“Molecular Epidemiology of Cardiovascular Disease: using population-based data to learn about biology”	Department of Epidemiology, Human Genetics, and Environmental Science, Special Seminar, University

		of Texas Health Science Center, Houston, TX
February 20, 2020	“Harnessing Population Studies to Learn About Biology: the molecular epidemiology of CVD”	Department of Epidemiology and Community Health, Special Seminar, University of Minnesota School of Public Health
March 20, 2020	“Harnessing Population Studies to Learn About Biology: the molecular epidemiology of CVD”	Division of Epidemiology, Virtual Seminar, Vanderbilt University Department of Medicine

c. Other Research and Training Activities

Year	Role	Venue
2009	Participant	Presentation Skills Workshop, American Heart Association Epi Council Meeting, Palm Harbor, FL
2011	Trainee	Next generation sequence analysis training course, University of Pittsburgh Department of Human Genetics, Pittsburgh, PA
2011	Attendee	Genomics of Common Disease 2011 Symposium, Wellcome Trust Institute, Hinxton, Cambridge, UK
2011	Attendee	NHLBI Genomics Symposium, NHLBI branch of the NIH, Bethesda, MD
2012	Attendee	Personal Genomics and Medical Genomics, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
2015-Present	Participant	Vascular Medicine Institute Research Conferences, University of Pittsburgh Medical School, Pittsburgh, PA
2015	Auditor	Body Fluid Homeostasis Cardiovascular Course, University

		of Pittsburgh Medical School Year 2 Curriculum, Pittsburgh, PA
2016	Trainee	Coronary artery calcification scoring training, Carr Laboratory, Vanderbilt University Medical School, Nashville, TN
2016	Reviewer	Entered into the Early Career Reviewer Program, NIH Center for Scientific Research, Bethesda, MD
2016	Attendee	NHLBI K To R01 Workshop, NHLBI NIH, Bethesda, MD
2016	Participant	NanoString RNA Count Data Analysis workshop, University of Pittsburgh, Pittsburgh, PA
2016	Attendee	Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting, Charlottesville, VA
2017	Attendee	RNA-Based Approaches in Cardiovascular Disease, Keystone Symposia, Keystone, CO
2017	Presenter	Cardiovascular Epidemiology Conference, University of Pittsburgh, Pittsburgh, PA
2017	Attendee	Visualizing the Future of Molecular Imaging, University of Pittsburgh, Pittsburgh, PA
2017	Attendee	Long Life Family Study Steering Committee In-Person Meeting, Bethesda, MD
2017	Attendee	Translational Research on Mitochondria, metabolism, Aging, and Disease Symposium (TRiMAD), Pittsburgh, PA
2017	Trainee	Moving from Genomic Discovery to Translational Research: Using the nCounter System, Pittsburgh, PA

2018-2019	Attendee	A Day in the Lifespan Conference, University of Pittsburgh CTSI, Pittsburgh, PA
2018	Attendee	ACC/AGS/NIA Diagnostic Testing in Older Adults Workshop in Washington, DC
2019	Attendee	Pedagogy workshop on the book “How Learning Works” through the University of Pittsburgh School of Public Health

PUBLICATIONS

1a. Refereed Articles

1. **Kuipers A**, Zhang Y, Cauley JA, Nestlerode CS, Chu Y, Bunker CH, Patrick AL, Wheeler VW, Hoffman AR, Orwoll ES, Zmuda JM. Association of a high mobility group gene (HMGA2) variant with bone mineral density. *Bone*. Aug 2009. 45(2):295-300.
2. Goodrich LJ, Yerges-Armstrong LM, Miljkovic I, Nestlerode CS, **Kuipers AL**, Bunker CH, Patrick AL, Wheeler VW, Zmuda JM. Molecular variation in neuropeptide Y and bone mineral density among men of African ancestry. *Calcif Tissue Int*. Dec 2009. 85(6):507-13.
3. Zhang Y, **Kuipers AL**, Yerges-Armstrong LM, Nestlerode CS, Jin Z, Wheeler VW, Patrick AL, Bunker CH, Zmuda JM. Functional and association analysis of frizzled 1 (FZD1) promoter haplotypes with femoral neck geometry. *Bone*. Apr 2010. 46(4):1131-7.
4. Miljkovic I, Yerges-Armstrong LM, Kuller LH, **Kuipers AL**, Wang X, Kammerer CM, Nestlerode CS, Bunker CH, Patrick AL, Wheeler VW, Evans RW, Zmuda JM. Association analysis of 33 lipoprotein candidate genes in multi-generational families of African ancestry. *J Lipid Res*. Jul 2010. 51(7):1823-31.
5. Zmuda JM, Yerges-Armstrong LM, Moffett SP, Klei L, Kammerer CM, Roeder K, Cauley JA, **Kuipers AL**, Ensrud KE, Nestlerode CS, Hoffman AR, Lewis CE, Lang TF, Barrett-Connor E, Ferrell RE, Orwoll ES for the Osteoporotic Fractures in Men (MrOS) Study Group. Genetic analysis of vertebral trabecular bone density and cross-sectional area in older men. *Osteoporos Int*. Apr 2011. 22(4):1079-90.
6. Miljkovic I, **Kuipers AL**, Kammerer CM, Wang X, Bunker CH, Patrick AL, Wheeler VW, Kuller LH, Evans RW, Zmuda JM. Markers of inflammation are heritable and associated with subcutaneous and ectopic skeletal muscle adiposity in African ancestry families. *Metab Syndr Relat Disord*. Aug 2011. 9(4):319-26.
7. **Kuipers AL**, Gundberg C, Kammerer CM, Dressen AS, Nestlerode CS, Patrick AL, Wheeler VW, Bunker CH, Newman AB, Zmuda JM. Genetic analysis of serum osteocalcin and bone

- mineral in multigenerational Afro-Caribbean families. *Osteoporos Int*. May 2012. 23(5):1521-31.
8. Hughes TM, Althouse A, Niemczyk N, Hawkins M, **Kuipers AL**, Sutton-Tyrrell K. Effects of weight loss and insulin reduction on arterial stiffness in the SAVE trial. *Cardiovasc Diabetol*. Sep 2012. 11:114.
 9. **Kuipers AL**, Miljkovic I, Kammerer CM, Evans RW, Bunker CH, Patrick AL, Wheeler VW, Sutton-Tyrrell K, Zmuda JM. Evidence for a genetic link between bone and vascular measures in African ancestry families. *J Bone Miner Res*. Aug 2013. 28(8):1804-10.
 10. Miljkovic I, **Kuipers AL**, Kuller LH, Sheu Y, Bunker CH, Patrick AL, Wheeler VW, Evans RW, Zmuda JM. Skeletal muscle adiposity is associated with serum lipid and lipoprotein levels in Afro-Caribbean men. *Obesity*. Sept 2013. 21(9):1900-7.
 11. Li H, **AL Kuipers**, CM Kammerer, CH Bunker, LH Kuller, I Miljkovic, AL Patrick, VW Wheeler, JM Zmuda. The association between renal function biomarkers and subclinical cardiovascular measures in African Caribbean families. *Ethn Dis*. Autumn 2013. 23(4):492-8.
 12. **Kuipers AL**, Kammerer CM, Miljkovic I, Woodard G, Miljkovic I, Bunker CH, Patrick AL, Wheeler VW, Newman AB, Zmuda JM. Genetic epidemiology and genome-wide linkage analysis of carotid artery ultrasound traits in multigenerational African ancestry families. *Atherosclerosis*. Nov 2013. 231(1):120-3.
 13. **Kuipers AL**, Zmuda JM, Carr JJ, Terry JG, Bunker CH, Patrick AL, Wheeler VW, Miljkovic I. Association of volumetric bone mineral density with aortic calcification in African ancestry men. *Osteoporosis Int*. Mar 2014. 25(3):1063-9.
 14. **Kuipers AL**, Zhang Y, Yu S, Kammerer CM, Nestlerode CS, Chu Y, Bunker CH, Patrick AL, Wheeler VW, Miljkovic I, Zmuda. Relative influence of heritability, environment and genetics on serum sclerostin. *Osteoporosis Int*. Mar 2014. 25(3):905-12.
 15. **Kuipers AL**, Yu S, Kammerer CM, Nestlerode CS, Bunker CH, Patrick AL, Wheeler VW, Zhang Y, Zmuda JM. Heritability and genetics of serum dickkopf-1 levels in African ancestry families. *Calcif Tissue Int*. Feb 2015. 96(2):155-9.
 16. **Kuipers AL**, Miljkovic I, Carr JJ, Terry JG, Nestlerode CS, Ge Y, Bunker CH, Patrick AL, Zmuda J. Association of Circulating Sclerostin with Vascular Calcification in Afro-Caribbean Men. *Atherosclerosis*. Mar 2015. 17(239):218-23.
 17. Miljkovic I, **Kuipers AL**, Cauley JA, Prasad T, Lee CG, Ensrud KE, Cawthorn PM, Hoffman AR, Dam T, Gordon CL, Zmuda JM *for the Osteoporotic Fractures in Men Study Group*. Greater skeletal muscle fat infiltration is associated with higher all-cause and cardiovascular mortality in older men. *J Gerontol A Biol Sci Med Sci*. Sep 2015. 70(9):1133-40.

18. **Kuipers AL**, Egwuogu H, Evans RW, Patrick AL, Youk AY, Bunker CH, Zmuda JM. Renal function and bone loss in a cohort of Afro-Caribbean men. *J Bone Miner Res.* Dec 2015. 30(12):2215-20.
19. Miljkovic I, **Kuipers AL**, Cvejkus R, Bunker CH, Patrick AL, Gordon CL, Zmuda JM. Myosteatosis increases with aging and is associated with incident diabetes in African ancestry men. *Obesity.* Feb 2016. 24(2):476-82.
20. Tilves CM, Zmuda JM, **Kuipers AL**, Nestlerode CS, Evans RW, Bunker CH, Patrick AL, Miljkovic I. Association of lipopolysaccharide-binding protein with aging-related adiposity change and prediabetes among African ancestry men. *Diabetes Care.* Mar 2016. 39(3):385-91.
21. **Kuipers AL**, Miljkovic I, Evans R, Bunker CH, Patrick AL, Zmuda JM. Optimal serum cholesterol concentrations are associated with accelerated bone loss in African ancestry men. *Osteoporos Int.* Apr 2016. 27(4):1577-84.
22. **Kuipers AL**, Kammerer CM, Pratt JH, Gundberg C, Bunker CH, Wheeler VW, Patrick AL, Zmuda JM. Association of circulating renin and aldosterone with osteocalcin and bone mineral density in African ancestry families. *Hypertension.* May 2016. 67(5):977-82.
23. Zhao Q, Zmuda JM, **Kuipers AL**, Jonnalagadda P, Bunker CH, Patrick AL, Youk AO, Miljkovic I. Greater skeletal muscle fat infiltration is associated with higher all-cause mortality among men of African ancestry. *Age Ageing.* Jul 2016. 45(4):529-34.
24. Zhao Q, Zmuda JM, **Kuipers AL**, Bunker CH, Patrick AL, Youk AO, Miljkovic I. Muscle attenuation is associated with newly developed hypertension in men of African ancestry. *Hypertension.* May 2017. 69(5):957-63.
25. **Kuipers AL**, Zmuda JM, Carr JJ, Terry JG, Nair S, Cvejkus R, Bunker CH, Patrick AL, Wassel CL, Miljkovic I. Association of ectopic fat with abdominal aorto-iliac and coronary artery calcification in African ancestry men. *Atherosclerosis.* June 2017. 263: 198-204.
26. Cui C, Sekikawa A, Kuller LH, Lopez OL, Newman AB, **Kuipers AL**, Mackey RH. Aortic stiffness is associated with increased risk of incident dementia in older adults. *J Alzheimers Dis.* 2018. 66(1):297-306.
27. **Kuipers AL**, Miljkovic I, Barinas-Mitchell E, Cvejkus R, Bunker CH, Wheeler VW, Zmuda JM. Arterial stiffness and hypertension status in Afro-Caribbean men. *J Hypertens.* 2019. 37(3):546-54.
28. Ali H, Zmuda JM, Cvejkus RK, Kershaw EE, **Kuipers AL**, Oczypok EA, Wheeler V, Miljkovic I. Wnt pathway inhibitor DKK1: A potential novel biomarker for adiposity. *J Endocr Soc.* 2019. 3(2):488-95.
29. Hwang J, Zmuda JM, **Kuipers AL**, Bunker CH, Santanasto AH, Wheeler VW, Miljkovic I. Serum vitamin D and age-related muscle loss in Afro-Caribbean men: the importance of age and diabetic status. *J Frailty Aging.* 2019. 8(3):131-137.

30. **Kuipers AL**, Wojczynski MK, Barinas-Mitchell E, Minster RL, Wang L, Feitosa MF, Kulminski A, Thyagarajan B, Lee JH, Province MA, Newman AB, Zmuda JM. Genome-wide linkage analysis of carotid artery traits in exceptionally long-lived families. *Atherosclerosis*. 2019. Oct 10(291):19-26.
31. LaSorda KR, Gmelin T, **Kuipers AL**, Boudreau RM, Santanasto AJ, Christensen K, Renner SW, Wojczynski MK, Cosentino S, Glynn NW; LLFS Research Group. *J Gerontol A Biol Sci Med Sci*. 2019 Dec 12. Pii:glz288.
32. Tilves C, Zmuda JM, **Kuipers AL**, Carr JJ, Terry JG, Wheeler V, Pedadda S, Nair S, Miljkovic I. Association of adipose tissue radiodensities with glucose and insulin in non-diabetic African-ancestry men. *Obesity*. 2020. 28(2):404-11.
33. **Kuipers AL**, Miljkovic I, Barinas-Mitchell E, Nestlerode CS, Cvejkus RK, Wheeler VW, Zhang Y, Zmuda JM. Wnt pathway gene expression is associated with arterial stiffness. *J Am Heart Assoc*. 2020. 9(3):e014170.
34. Miljkovic I, **Kuipers AL**, Cvejkus RK, Carr JJ, Terry JG, Thyagarajan B, Wheeler VW, Nair S, Zmuda JM. Hepatic and skeletal muscle adiposity are associated with diabetes independent of visceral adiposity in African-caribbean men. *Metab Syndr Relat Disorder*. 2020 May 11. doi: 10.1089/met.2019.0097.

2. Books and Book Chapters

Not Applicable

3. Published Proceedings

Not Applicable

4. Invited Articles

Not Applicable

5. Review Articles

Not Applicable

6. Published Abstracts

See presentations, below.

7. Presentations

1. **Kuipers AL**, Moffett SP, Nestlerode CS, Wheeler VW, Patrick AL, Bunker CH, Cauley JA, Ferrell RE, Zmuda JM. Genomic variation in transforming growth factor beta 1 induced transcript 1 (TGFB1I1) is associated with multiple measures of body composition in Afro-Caribbean men. Poster presented at the 2005 Annual Meeting of the American Society of Human Genetics. Salt Lake City, UT. October 25-29, 2005.

2. **Kuipers AL**, Moffett SP, Nestlerode CS, Wheeler VW, Patrick AL, Bunker CH, Cauley JA, Ferrell RE, Zmuda JM. Variation in the transforming growth factor beta 1 induced transcript 1 (TGFB1I1) gene region is associated with body size, bone density and body composition in Afro-Caribbean men. Poster presented at the International Osteoporosis Foundation's World Congress on Osteoporosis. Toronto, Ontario, Canada. June 2-6, 2006.
3. Miljkovic-Gacic I, Wang XJ, Kammerer CM, Nestlerode C, Yerges LM, **Kuipers A**, Goodrich L, Kuller LH, Bunker CH, Patrick AL, Wheeler VW, RW Evans, Zmuda JM. High-density association analysis of the CETP locus and HDL-c in families of African ancestry: The Tobago Family Health Study. Poster presented at the 2007 Annual Meeting of the American Society of Human Genetics. San Diego, CA, October 22-27, 2007.
4. **Kuipers AL**, Cauley J, Ensrud K, Gordon C, Inglis D, Wheeler VW, Patrick AL, Bunker CH, Nestlerode CS, Hoffman AR, Orwoll E, Zmuda JM. A common single nucleotide polymorphism in the high mobility group at-hook 2 (HMGA2) gene is associated with bone mass in men. Poster presented at the American Society of Bone and Mineral Research Annual Meeting. Montréal, Québec, Canada. September 11-16, 2008.
5. **Kuipers AL**, Miljkovic I, Woodard G, Mitchell-Barinas E, Kammerer CM, Dressen A, Bunker CH, Wheeler VW, Patrick AL, Kuller LH, Sutton-Tyrrell K, Zmuda JM. Heritability of subclinical atherosclerosis in multi-generational families of African ancestry: The Tobago Family Health Study. Presented at Oral session at the American Heart Association's Council on Cardiovascular Disease Epidemiology and Prevention Annual Meeting. Palm Harbor, FL, March 10-14, 2009.
6. **Kuipers AL**, Nestlerode CS, Zhang Y, Okobia M, Bunker CH, Wheeler VW, Patrick A, Zmuda JM. Association of a novel non-synonymous coding variant in the Frizzled-1 gene with BMD among Afro-Caribbean men. Poster presented at the American Society of Bone and Mineral Research Annual Meeting. Denver, CO. September 11-14, 2009.
7. **Kuipers AL**, Gundberg C, Dressen AS, Kammerer CM, Bunker CH, Edwards AR, Patrick AL, Wheeler VW, Zmuda JM. Genome wide linkage of osteocalcin to chromosome 18 in multi-generational families of African ancestry. Poster presented at the American Society of Bone and Mineral Research Annual Meeting. Toronto, Ontario, Canada, October 15-18, 2010.
8. **Kuipers AL**, Woodard GA, Sutton-Tyrrell K, Miljkovic I, Li H, Bunker CH, Patrick A, Wheeler VW, Kammerer CM, Zmuda JM. Genetic and phenotypic correlation between bone mineral density and subclinical cardiovascular disease in multigenerational families of African ancestry. Poster presented at the American Society of Bone and Mineral Research Annual Meeting. Toronto, Ontario, Canada, October 15-18, 2010.
9. **Kuipers AL**, Miljkovic I, Kammerer CM, Woodard G, Bunker CH, Patrick AL, Wheeler VW, Sutton-Tyrrell K, Zmuda JM. Genome-wide linkage analysis of carotid artery ultrasound phenotypes in multigenerational Afro-Caribbean families. Presented at both oral and poster sessions at the American Heart Association's Council on Cardiovascular Epidemiology and Prevention Annual Meeting. Atlanta, GA, March 23-25, 2011.
10. **Kuipers AL**, Kammerer CM, Miljkovic I, Bunker CH, Patrick AL, Wheeler VW, Sutton-

Tyrrell K, Zmuda JM. Bivariate linkage analysis identifies a genomic region with potential pleiotropic effects on bone mineral density and subclinical cardiovascular disease indices. Poster presented at the American Society for Bone and Mineral Research Annual Meeting. San Diego, CA, September 16-20, 2011.

11. Miljkovic I, **Kuipers AL**, Sheu Y, Bunker CH, Patrick AL, Wheeler VW, Zmuda JM. Longitudinal changes in skeletal muscle adipose tissue infiltration with age in African ancestry men. Poster presented at the 29th Obesity Society Meeting. Orlando, FL, October 1-5, 2011.
12. Patrick AL, **Kuipers AL**, Woodard G, Miljkovic I, Bunker CH, Sutton-Tyrell K, Zmuda JM. Carotid intima medial thickness in healthy Tobago families: Possible implications for cardiovascular intervention. Presented as oral research at the Caribbean Health Research Council-57th Annual Scientific Meeting. Cayman Islands, April 19-21, 2012.
13. Miljkovic I, Sheu Y, **Kuipers AL**, Goodpaster BH, Bunker CH, Patrick AL, Zmuda JM. A Longitudinal assessment of skeletal muscle adiposity and type 2 diabetes in African ancestry men. Poster presented at the 72nd American Diabetes Association's Scientific Sessions. Philadelphia, PA, June 8-12, 2012.
14. Miljkovic I, **Kuipers AL**, Bunker CH, Patrick AL, Zmuda JM. Resequencing of FABP4 and its association with adiposity phenotypes in African ancestry men. Poster presented at the 30th Obesity Society Meeting. San Antonio, TX, September 20-24, 2012.
15. **Kuipers AL**, Zmuda JM, Carr JJ, Terry GJ, Bunker CH, Patrick AL, Wheeler VW, Miljkovic I. Association of cortical volumetric bone mineral density with arterial calcification in African ancestry men. Poster presented at the American Society of Bone and Mineral Research Annual Meeting. Minneapolis, MN, October 12-15, 2012.
16. Miljkovic I, Sheu Y, **Kuipers AL**, Goodpaster BH, Bunker CH, Patrick AL, Zmuda JM. Skeletal muscle fat infiltration accelerates with aging in African ancestry men. Poster presented at the 65th Gerontological Society of America Annual Scientific Meeting. San Diego, CA, November 14-18, 2012.
17. **Kuipers AL**, Zmuda, JM, Bunker CH, Patrick AL, Miljkovic I. Association of circulating fibroblast growth factor-23 with adiposity and lipoprotein concentrations in African ancestry men. Poster presented at the American Heart Association EPI|Lifestyle 2013 Scientific Sessions. New Orleans, LA, March 19-23, 2013, 2013.
18. **Kuipers AL**, Zmuda, JM, Bunker CH, Patrick AL, Miljkovic I. Arterial calcification in Afro-Caribbean men from Tobago. Presented as oral research at the 58th Annual Scientific Meeting of the Caribbean Public Health Agency (CARPHA). Barbados, May 2-4, 2013.
19. Miljkovic I, **Kuipers AL**(presenting author), Sheu Y, Bunker CH, Patrick AL, Zmuda JM. Natural history and magnitude of changes in body fat distribution with aging in Afro-Caribbean men: Longitudinal data from the Tobago Health Study. Presented as oral research at the 58th Annual Scientific Meeting of the Caribbean Public Health Agency (CARPHA). Barbados, May 2-4, 2013.

20. **Kuipers AL**, Zhang Y, Yu S, Kammerer CM, Nestlerode CS, Chu Y, Bunker CH, Patrick AL, Wheeler VW, Miljkovic I, Zmuda JM. Genetic analysis of serum sclerostin. Poster presented at the American Society of Bone and Mineral Research Annual Meeting. Baltimore, MD, Oct 4-7, 2013.
21. Miljkovic I, **Kuipers AL**, Sheu Y, Carr JJ, Hightower RC, Terry JG, Ge Y, Patrick AL, Bunker CH, Zmuda JM. Skeletal muscle adiposity is associated with diabetes independent of visceral, liver and total body fat in African ancestry men. Poster presented at the 73rd Annual Scientific Sessions of the American Diabetes Associations, Chicago, June 21-24, 2013.
22. Miljkovic I, Prasad T, Cauley J, **Kuipers A**, Lee C, Cawthon P, Orwoll E, Dam T, Bunker C, Patrick A, Zmuda J. Longitudinal assessment of skeletal muscle composition in white versus black elderly men. Poster presented at the 74th Annual Scientific Sessions of the American Diabetes Association. San Francisco, June 13-17, 2014.
23. **Kuipers AL**, Miljkovic I, Carr JJ, Terry JG, Nestlerode CS, Ge Y, Bunker CH, Patrick AL, Zmuda JM. Association of serum sclerostin with vascular calcification in African ancestry men. Poster presented at the American Heart Association EPI|Lifestyle 2015 Scientific Sessions. Baltimore, MD, March 3-6, 2015.
24. Miljkovic I, **Kuipers AL**, Cvejkus RK, Bunker CH, Patrick AL, Zmuda JM. Skeletal muscle density: a novel risk factor for hypertension in aging African ancestry men. Moderated poster presented at the American Heart Association EPI|Lifestyle 2015 Scientific Sessions. Baltimore, MD, March 3-6, 2015.
25. Miljkovic I, **Kuipers AL**, Carr JJ, Terry JG, Ge Y, Bunker CH, Patrick AL, Zmuda JM. Liver adiposity is associated with hyperinsulinemia and insulin resistance independent of total body, central, and muscle adiposity in African ancestry men. Poster presented at the 75th Annual Scientific Sessions of the American Diabetes Association. Boston, June 5-9, 2015.
26. Zhao Q, Zmuda JM, **Kuipers AL**, Bunker CH, Patrick AL, Miljkovic I. Greater myosteatosi s is associated with higher all-cause mortality among men of African ancestry. Poster presented at the 75th Annual Scientific Sessions of the American Diabetes Association. Boston, June 5-9, 2015.
27. **Kuipers AL**, Miljkovic I, Carr JJ, Terry JG, Nair S, Ge Y, Cvejkus R, Bunker CH, Patrick AL, Wassel CL, Zmuda JM. Prevalence and Age-Related Trends of Subclinical Cardiovascular Disease Burden in Adult Afro-Caribbean Men from Tobago. Poster presented at the American Heart Association EPI|Lifestyle 2016 Scientific Sessions. Phoenix, AZ, March 1-4, 2016.
28. Miljkovic I, **Kuipers AL**, Carr JJ, Terry JG, Nair S, Ge Y, Cvejkus R, Tilves C, Bunker CH, Patrick AL, Zmuda JM. Association of intermuscular fat density with hyperinsulinemia and insulin resistance. Poster presented at the American Heart Association EPI|Lifestyle 2016 Scientific Sessions. Phoenix, AZ, March 1-4, 2016.
29. **Kuipers AL**. Arterial Calcification: Is the Wnt Pathway a Link between Bone and the Vasculature? Oral presentation at the AIMM-ASBMR John Haddad Young Investigator Meeting. Snowmass, CO, March 27-31, 2016.

30. **Kuipers AL**, Zmuda JM, Carr JJ, Terry JG, Nair S, Cvejkus R, Bunker CH, Patrick AL, Wassel CL, Miljkovic I. Ectopic adiposity is associated with abdominal aorto-iliac but not coronary artery calcification independent of total body adiposity in African ancestry men. Poster presented at the American Heart Association EPI|Lifestyle 2017 Scientific Sessions. Portland, OR, March 7-10, 2017.
31. Miljkovic I, **Kuipers AL**, Carr JJ, Terry JG, Nair S, Ge Y, Cvejkus R, Bunker CH, Patrick AL, Zmuda JM. Muscle and liver, but not visceral adiposity, are independently associated with type 2 diabetes in African-ancestry men. Moderated poster presented at the American Heart Association EPI|Lifestyle 2017 Scientific Sessions. Portland, OR, March 7-10, 2017.
32. Yau MS, Hsu YH, **Kuipers AL**, Price R, Nicolas A, Tajuddin S, Handelman S, Arbeeve L, Chesi A, Liu CT, Kinua F, Chou WC, Karasik D, Joehanes R, Demissie S, Cupples LA, Zemel B, Grant S, Jordan JM, Jackson R, Evans M, Harris T, Zmuda JM, Kiel DP.. Oral presentation at the American Society for Bone and Mineral Research 2017 Annual Meeting. Denver, CO, September 8-11, 2017.
33. **Kuipers AL**, Miljkovic I, Barinas-Mitchell EJM, Cvejkus R, Bunker CH, Wheeler VW, Zmuda JM. Association of an enhancing Wnt pathway mutation with carotid artery wall traits in African ancestry men. Poster presented at the American Heart Association EPI|Lifestyle 2018 Scientific Sessions. New Orleans, LA, March 20-23, 2018.
34. **Kuipers AL**, Barinas-Mitchell EJM, Minster RL, Wojczynski M, Christiansen L, Kulminski A, Thyagarajan B, Newman AB. Genome-wide linkage analysis of carotid artery traits in exceptionally long-lived families. Poster presented at the American Heart Association EPI|Lifestyle 2018 Scientific Sessions. New Orleans, LA, March 20-23, 2018.
35. Cui C, Sekikawa A, Kuller LH, Lopez O, Newman AB, **Kuipers AL**, Mackey H. Arterial stiffness is associated with increased risk of incident dementia in the older elderly: the cardiovascular health study cognition study. Poster presented at the American Heart Association EPI|Lifestyle 2018 Scientific Sessions. New Orleans, LA, March 20-23, 2018.
36. Ali H, Zmuda JM, Cvejkus R, Kershaw EE, **Kuipers AL**, Bunker CH, Miljkovic I. Inverse associations between circulating SFRP5 and adiposity among African Caribbean men. Poster presented at the 78th American Diabetes Association Scientific Sessions. Orlando, FL, June 22-26, 2018.
37. Ali H, Zmuda JM, Cvejkus R, Kershaw EE, **Kuipers AL**, Bunker CH, Miljkovic I. Wnt pathway inhibitor DKK1: a potential novel biomarker for ectopic skeletal muscle adiposity. Poster presented at the 78th American Diabetes Association Scientific Sessions. Orlando, FL, June 22-26, 2018.
38. Cui C, Sekikawa A, Kuller LH, Lopez OL, Newman AB, **Kuipers AL**, Mackey RH. Arterial stiffness is associated with increased risk of incident dementia in the older elderly: the cardiovascular health study. Oral Presentation at the 2018 Alzheimer's Association International Conference. Chicago, IL, July 22-26.
39. **Kuipers AL**, Wojczynski M, Barinas-Mitchell EJM, Minster RL, Wang L, Christiansen L, Kulminski A, Thyagarajan B, Province MA, Newman AB. Common variants do not explain

significant linkage peaks of carotid artery traits in exceptionally long-lived families. Poster presented at the American Society of Human Genetics 2018 Annual Meeting. San Diego, CA, October 17, 2018.

40. **Kuipers AL**, Minster RL, Barinas-Mitchell EJM, Christiansen K, Feitosa M, Cosentino S, Newman AB. Correlation between vascular aging and functional decline in exceptionally long-lived families. Poster presented at the American Heart Association Scientific Sessions 2018. Chicago, IL, November 11, 2018.
41. **Kuipers AL**, Barinas-Mitchell E, Nestlerode CS, Wheeler VW, Miljkovic I, Zmuda JM. Wnt pathway gene expression is associated with greater arterial stiffness. Poster presentation at the American Heart Association Epi|Lifestyle Sessions. Houston, TX, March 6, 2019.
42. Tilves C, **Kuipers A**, Zmuda J, Carr J, Terry J, Nair S, Sekikawa A, Bunker C, Wheeler V, Miljkovic I. Intermuscular fat density: novel risk factor for cardiometabolic risk factors in African-ancestry men. Oral presentation at the American Heart Association Epi|Lifestyle Sessions. Houston, TX, March 6, 2019.
43. **Kuipers AL**, Cvejkus RK, Wheeler VW, Miljkovic I. Association of physical activity with blood pressure and hypertension in Afro-Caribbean men. Oral presentation at the 64th Annual Scientific Meeting of the Caribbean Public Health Agency (CARPHA). Trinidad and Tobago, June 21, 2019.
44. Sherlala RA, Kammerer CM, **Kuipers AL**, Wojczynski MK, Ukraintseva SV, Feitosa MF, Mengel-From J, Minster RL. The relationship between serum IGF-1 and BMI by Age. Presented as a Poster Presentation at the Gerontological Society of America 2019 Annual Scientific Meeting. Austin, TX, November 13-17, 2019.
45. **Kuipers AL**, Carr JJ, Terry JG, Nair S, Barinas-Mitchell E, Wheeler VW, Miljkovic I. Aortic areas at multiple locations are independent correlates of multiple subclinical cardiovascular disease measures. Presented as a Poster Presentation at the American Heart Association Epi|Lifestyle 2020 Scientific Sessions. Phoenix, AZ, March 3-6, 2020.
46. Tilves C, **Kuipers A**, Zmuda J, Carr JJ, Terry JG, Nair S, Peddada S, Bunker CH, Wheeler V, Miljkovic I. Associations of adipose tissue distribution with hypertension and diabetes in African ancestry men: A novel approach using compositional data analysis. Presented as a Poster Presentation at the American Heart Association Epi|Lifestyle 2020 Scientific Sessions. Phoenix, AZ, March 3-6, 2020.
47. Tilves C, **Kuipers A**, Zmuda J, Carr JJ, Terry JG, Nair S, Thyagarajan B, Wheeler V, Miljkovic I. Myosteatorsis: Differences in association with type 2 diabetes by anatomical location. Presented as a Poster Presentation at the American Heart Association Epi|Lifestyle 2020 Scientific Sessions. Phoenix, AZ, March 3-6, 2020.
48. An P, Lu Y, Thagarajan B, **Kuipers AL**, Anema JA, Miljkovic I, Daw EW, Province MA. Genetics of TG/HDL-c ratio and its change over time in subjects without diabetes: The Long Life Family Study (LLFS) and the Family Heart Study (FamHS). To be presented as a (virtual) Poster Presentation at the American Diabetes Association 2020 Scientific Sessions. Chicago, IL, June 12-16, 2020.

49. **Kuipers AL**, Wheeler V, Miljkovic I. Aortic Area is a Novel Predictor of Cardiovascular Disease in African Caribbean Men. To be presented as an oral presentation at the 65th Annual Scientific Meeting of the Caribbean Public Health Agency (CARPHA). Kingston, Jamaica. 2020 POSTPONED due to COVID-19.

50. **Kuipers AL**, Carr JJ, Terry JG, Nair S, Barinas-Mitchell E, Wheeler VW, Miljkovic I. Aortic Area is a Novel Predictor of Cardiovascular Disease in African Caribbean Men. To be presented as an Oral Presentation at the Trinidad and Tobago National Research Conference. 2020 Port of Spain, Trinidad and Tobago. POSTPONED due to COVID-19.

8. Non-Print Media

Not Applicable

9. Other Publications

Not Applicable

SERVICE

1. Service to School and University

Years	Committee	Position
2007-2011	Doctoral Student Organization, University of Pittsburgh	Member
2015-2019	University of Pittsburgh, Graduate School of Public Health, Dean's Day Competition	Judge
2016-ongoing	Department of Epidemiology Curriculum Committee, Graduate School of Public Health, University of Pittsburgh	Member
2016-ongoing	Kim Sutton-Tyrrell Memorial Lectureship Planning Committee	Member
2018-2019	Department of Epidemiology Infrastructure Strategic Plan Committee, Graduate School of Public Health, University of Pittsburgh	Member

2. Service to Field of Scholarship

a. Editorial Boards, Editorships

Not Applicable

b. Manuscript and Other Document/Publication Review

Year(s)	Journal Name
2011, 2016	Journal of Bone and Mineral Research
2012	Gene
2012, 2014, 2015, 2015, 2015, 2015, 2015, 2015, 2015, 2016, 2017	Bone
2013	Obesity
2013, 2014	PLOS Genetics
2014	Vascular Health and Risk Management
2014	Contemporary Nurse
2015, 2018, 2020, 2020	PLOS One
2015	Journal of Cardiovascular Computed Tomography
2015, 2015, 2015	American Journal of Hypertension
2015	International Journal of Women's Health
2015, 2015, 2016, 2016	Osteoporosis International
2016	Journal of Cardiovascular Translational Research
2016, 2016	Journal of Gerontology: Medical Sciences
2016, 2017, 2017, 2017	Atherosclerosis
2019, 2019	Molecular Genetics and Genomic Medicine

c. Study Sections, Review Panels, and Advisory Boards

Years	Organization	Position
2017	AHA Strategically Focused Research Network Awards; Obesity focus	Grant Reviewer
2018	AHA Fellow's Research Day	Presentation Judge
2018	Genetics of Health and Disease (GHD) NIH Standing Study Section	Grant Reviewer through the Early Career Reviewer Program

2019	AHA Fellowships Program	Grant Reviewer
2019-2020	MULTIVAC scientific knowledge extraction system, Gallup (Funded by DARPA)	Panel Expert
2020	NIH Special Emphasis Panel Study Section for PAR-20-030	Grant Reviewer

d. Leadership in Scholarly and Professional Organizations and Honorary Societies

Not Applicable

3. Service for Practice and Policy-Making, including Consultantships

a. Governmental Organizations

Not Applicable

b. Non-Governmental and Community-Based Organizations

Not Applicable

4. Non-Professional Service

Years	Organization	Position
2014-2016	Epi Gives Back	Member
2015	Epi Gives Back at Cribs for Kids	Organizer