
Miryoung Lee, PhD, MPH, MS, CCD®

A. PERSONAL INFORMATION

Present Title: Associate Professor
 Academic Address: The University of Texas Health Sciences Center at Houston (UTHealth Houston)
 School of Public Health, Brownsville Campus
 One West University Blvd, SPH Building N1.102B
 Brownsville, TX 78520
 E-mail: miryoung.lee@uth.tmc.edu
 Telephone: (956) 755-0651
 Fax: (956) 755-0605

B. EDUCATION

Ph.D. in Epidemiology (Aging), University of Pittsburgh, Graduate School of Public Health

- Dissertation: Bone mineral density (BMD), bone loss and coronary calcification in older men
- Advisor: Dr. Jane A. Cauley

M.S. in Applied Statistics, Wright State University, College of Science & Mathematics

M.P.H. in Health Economics, Seoul National University, South Korea

B.S. in Genetic Engineering, Kyung Hee University, South Korea

POST-GRADUATE EDUCATION/CERTIFICATION

<u>Award Date</u>	<u>Institution</u>	<u>Degree</u>	<u>Concentration</u>
Nov, 2025	The University of Texas at Austin, McCombs School of Business	Post Graduate certificate	Artificial intelligence and Machine Learning: Business Applications
2024-2028	The International Society for Clinical Densitometry (ISCD)	Professional certification	Certified Clinical Densitometrist (CCD®)
2002-2007			
July, 2021	Columbia University, Mailman School of Public Health	Certification	The Exposome Boot Camp
2016-2019	The National Board of Public Health Examiners	Professional certification	Certified in Public Health (CPH)
June, 2018	Columbia University, Mailman School of Public Health	Certification	Mendelian Randomization Boot camp
December, 2005	Wright State University Department of Community Health	Postdoctoral	Cardiovascular Epidemiology

C. ACADEMIC POSITIONS

Jan 2017 – present	Associate Professor, Department of Epidemiology, Human Genetics, and Environmental Sciences (EHGES), The University of Texas Health Science Center at Houston (UTHealth) School of Public Health, Brownsville Campus
Aug 2016 – Dec 2016	Director, Division of Epidemiology and Biostatistics, Department of Population and Public Health Sciences, Wright State University Boonshoft School of Medicine, Dayton, OH

	Curator, The Fels Longitudinal Study. Wright State University Boonshoft School of Medicine, Dayton, OH
2012 – 2016	Associate Professor (Primary Appointment), Lifespan Health Research Center, Department of Population and Public Health Science (formerly, Department of Community Health), Wright State University Boonshoft School of Medicine, Dayton, OH
2012 – 2016	Associate Professor (Secondary Appointment), Departments of Pediatrics, Wright State University, Boonshoft School of Medicine, Dayton, OH
2008 – 2012	Assistant Professor (Secondary Appointment), Departments of Pediatrics, Wright State University, Boonshoft School of Medicine, Dayton, OH
2007 – 2012	Assistant Professor, Lifespan Health Research Center, Department of Community Health, Wright State University Boonshoft School of Medicine, Dayton, OH
2006 – 2007	Research Assistant Professor, Lifespan Health Research Center, Department of Community Health, Wright State University Boonshoft School of Medicine, Dayton, OH
2003 – 2005	Postdoctoral Research Associate in Cardiovascular Epidemiology, Lifespan Health Research Center, Department of Community Health, Wright State University School of Medicine, Dayton, OH
1998 – 2002	Graduate Student Researcher, Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA

D. RECOGNITION & AWARDS

2024-2025	Teaching Innovation Award for 2024-2025, PH2710 Epidemiology III with Dr. Elena Feofanova
2023	Award for Excellence in Academic Advising, UTHealth Houston, School of Public Health
2009	Finalist, McGovern Outstanding Teaching Award, School of Public Health Early Childhood Longitudinal Study-Birth cohort Database Training Seminar (National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education) – Travel Stipend
2007	American Society for Bone and Mineral Research – Travel Award
2006	Frontiers in statistical genetics for NIAMS researchers: A two-day short course (University of Alabama at Birmingham) – Travel Stipend
2001	Skeletal Genetics Workshop: The Next Decade (Oregon Health & Science University and National Institute of Aging) - Young Investigator Travel Award
2000	Technical Assistance Workshop: Taking the Next Step (National Institute of Aging) – Travel Stipend

E. PUBLICATIONS

Peer-Reviewed Articles (published and in-press) *indicates students or trainees as first authors.

1. Aguirre M*, Ayala D, [...], Lee M, Rendon A, Wang S, Yotebieng M, Evans C, Torrelles J, Restrepo B. Accuracy of the phenotypic 1G test to detect *Mycobacterium tuberculosis* and drug resistance from sputa in the US-Mexico border. *The Journal of Infectious Diseases*. 2025. (In press)

2. Morales AH*, Choh AC, Bauer CX, Czerwinski SA, **Lee M**. Association between maternal sleep disorders and maternal and birth outcomes: a retrospective analysis of Optum's de-identified Clininformatics® Data Mart Database. *Brain and Behavior*. 2025 (Accepted). doi: 10.1002/brb3.70908
3. Khalil N, Hamdaoui L, Ducatman A, Koskela A, Rebai T, **Lee M**, Nahhas R. Glyphosate exposure, bone mineral density, osteoporosis, and fracture in the US population. *Journal of Environmental Health Science and Engineering*. 2025 (in press).
4. Krishnan M, Anwar MY, Justic AE, [...], Yanek LR, **Lee M**, Raffield LM, Loos RJF, Gordeon-Larsen PG, Below JE, North KE, Graff M. Genome-wide association study provides novel insight into the genetic architecture of severe obesity. *PLOS Genetics*. 2025;21(9): e1011842. <https://doi.org/10.1371/journal.pgen.1011842>
5. Palmer AB, Lee KH, Roshani R, Frankel E, **Lee M**, Anwar MY, Highland HM, Young KL, Graff M, McCormick JB, Fisher-Hoch SP, Samuel JP, Below JE, North KE, Gordon-Larsen P. Prevalence of obesity with confirmed excess adiposity in US Children and Adolescents. *JAMA Pediatr*. 2025 Sep 8:e252991. PMC12418218.
6. Ford ML*, Choh AC, Gonzalez B, Lindheim SR, Stanczyk FZ, McGinnis LK, Czerwinski SA, **Lee M**. Anti-Müllerian hormone levels are associated with skeletal maturity in adolescent girls: A longitudinal Study. *Health Sci Rep*. 2025;8(9):e71209. PMC12411559.
7. Anwar MY, Highland HM, Sheng Q, Chen HH, Roshani R, Frankel EG, Landman J, Kim D, Young KL, Zhu W, Krishnan M, Gutierrez A, Gordon-Larsen P, **Lee M**, Gamazon ER, Amancherla K, Das S, Betti MJ, Fisher-Hoch SP, McCormick JB, Below JE, Graff M, Shah RV, North KE. Multi-omics of human obesity and related multi-system diseases. *J Clin Endocrinol Metab*. 2025;dgaf373. doi: 10.1210/clinem/dgaf373. PMID: 40581728.
8. Blackburn C, Rico MA, Knight L, **Lee M**, Hernandez J. Examining the presence of Border Patrol agents in hospitals in South Texas. *J Immigr Minor Health*. 2025;27(3):424-430. PMC12037678.
9. Garza A*, Blangero J, **Lee M**, Bauer C, Czerwinski SA, Choh AC. Endophenotype informed association analyses for liver fat accumulation and metabolic dysfunction in the Fels Longitudinal Study. *Int J Mol Sci*. 2025;26(10):4812. PMC12112654.
10. Al-Dallal R, Thomas K, Lee M, Chaudhri A, Davis E, Vaidya P, **Lee M**, McCormick JB, Fisher-Hoch SP, Gutierrez AD. The association of resistin with metabolic health and obesity in a Mexican-American population. *In J Mol Sci*. 2025;26(9):4443. PMC12072545.
11. Li J, Liu X, Tran TT, **Lee M**, Tsai RY. DNA Methylation and Target Gene Expression in Fatty Liver Progression from Simple Steatosis to Advanced Fibrosis. *Liver Int*. 2025;45(3):e70040. Doi:10.1111/liv.70040. PMID: 39982030.
12. Chen HH, Sharma P, Polikowsky HG, Petty LE, Seo J, Anwar, MY, Kim D, Graff M, Young KL, Zhu W, Karastergiou K, Shaw DM, Justice AE, Fernandez-Rhodes L, Krishnan M, Gutierrez A, McCormick P, Gordon-Larsen P, **Lee M**, Highland H, Gamazon ER, Cox NJ, Fried SK, Fisher-Hoch S, McCormick J, North KE, Below JE. Multi-omics reveal key inflammatory drivers of severe obesity. *Cell Genomics*. 2025; 5(3):100784. PMC11960538.
13. Beglarian E*, Chen JC, Li Z, Costello E, Wang H, Hampson H, Alderete T, Chen Z, Valvi D, Rock S, Chen W, Rianon N, Aung M, Gilliland F, Goran M, McConnell R, Eckel S, **Lee, M**, Conti D, Goodrich J, Chatzi L. Proteins and Pathways Involved in Inflammation are Longitudinally Associated with Bone Mineral Density Among Primarily Hispanic Adolescents and Young Adults. *J Bone Miner Res*. 2025;40(3): 372-381. PMC11909736.

14. Blackburn CC, **Lee M**, Rico M, Hernandez J, Knight L. "It overwhelms the system": Community and personnel effects of providing EMS care in a Texas border community." *BMJ Open* 2024;14(12):e088819. PMC11667322.
15. Calles-Cabanillas LE*, Aguilón-Durána GP, Ayala D, Casoa JA, Garzaa M, Joya-Ayalab M, Cruz-Gonzalez AM, Rodríguez-Herrera JE, Garcia-Oropesa d EM, Thomas III JM, **Lee M**, Torrelles JB, Turner J, Restrepo BI, Interaction between type 2 diabetes and past COVID-19 on active tuberculosis. *BMC Infect Dis.* 2024;24(1):1383. PMC11616277.
16. Zhang K*, Hunyadi J, de Oliveira Otto MC, **Lee M**, Zhang Z, Ramphul R, Yamal JM, Yaseen A, Morrison AC, Sharma S, Rahbar MH, Zhang X, Linder S, Marko D, Roy RW, Banerjee D, Guajardo E, Crum M, Reininger B, Fernandez ME, Cauer C. Increasing COVID-19 Testing and Vaccination Uptake in the Take Care Texas Study: Adaptive Geospatial Design in Community-Based Randomized Trials. *JMIR Form Res.* 2025;9:e62802. PMC11835599.
17. Blackburn CC, Rico M, Hernandez J, **Lee M**. Medical care or deportation: Examining interior border checkpoints and access to higher-level medical care for undocumented immigrants in South Texas. *Am J Public Health.* 2025;115(3):292-295. PMID: 39847753.
18. Petty L*, [...] **Lee M**, Below JB on behalf of the DIAMANTE Hispanic/Latino and Global Hispanic Lipids consortia. Large-scale multi-omics study of cardiometabolic traits in Hispanic/Latino populations identifies novel loci and functionally implicates genes for type 2 diabetes and lipid traits. *Nat Commun.* 2025;16(1):3438. PMC11985957.
19. Heredia NI, Park SK, Lee MJ, Mitchell-Bennett L, Yeh P, Gowen R, Rodriguez A, **Lee M**, Reininger BM. Changes in perceptions of the neighborhood environment and physical activity patterns among Mexican Americans on the Texas-Mexico Border. *J Phys Act Health.* 2024;21(9):906-915. PMC11373864.
20. Medrano B*, **Lee M**, Gemeinhardt, G, Yamba L, Restrepo, BI. High all-cause mortality and increasing proportion of older adults with tuberculosis in Texas, 2008-2020. *Epidemiology and Infection.* 2024: 152;e82. doi:10.1017/S0950268824000669. PMC11131009.
21. Williamson E*, Kellar L, Maxwell RA, **Lee M**, Whigham LD, Lindheim SR. Female perspective regarding quality of care and weight-related communication in Obstetrics-Gynecology and Family practices. *Journal of Clinical Obstetrics and Gynecology.* 2024;13:25-34
22. Low EV*, **Lee M**, Bauer C, Fisher-Hoch SP, McCormick JB, Rowan, Abughosh S, Essien EEJ, Chen H. Risk factors for overweight and obesity in children and adolescents living on the Texas-Mexico border. *Front Adolesc Med - Obesity and Nutrition in Adolescents.* 2024: Apr 4. doi: 10.3389/fradm.2024.1297391
23. Garza A*, **Lee M**, Blangero J, Bauer C, Czerwinski SA, Choh AC. Genetic correlations between fatty liver, metabolic health, and adiposity distribution in the Fels Longitudinal Study. *Nutr Metab Cardiovasc Dis.* 2024; S0939-4753(24)00089-9. PMC12086968.
24. Salari S*, Lee S, Mangels J, Flyckt R, Madeira J, Gordon J, Keenan J, **Lee M**, Lin P, Pennings G, Sweet C, Klock S, Lindheim SR. Psychosocial outcomes of children born via embryo donation. *Hum Reprod.* 2024;39(4):779-783. doi: 10.1093/humrep/deae023. PMID: 38373211.
25. Zitong Z*, Sabbarwal R, **Lee M**, Zhang K, McGaha P, Crum M, Bauer C, Fisher-Hoch SP, McCormick JB, Reininger BM, Thomas S, Guajardo E, Pinon D, Yaseen A. An Interactive Online Dashboard with Covid-19 Trends and Data Analysis in Northeast and South Texas. *Texas Public Health Journal* 2024; 7(2):12.
26. Prasad A, Choh AC, Gonzalez ND, Garcia M, **Lee M**, Watt G, Vasquez LM, Laing S, Wu S, McCormick JB, Fisher-Hoch SP. A high burden of diabetes and ankle-brachial index abnormalities exists in Mexican Americans in South Texas. *Prev Med Rep.* 2024;Jan 9:38:102604.

PMC10874877.

27. Goodman M, **Lee M**, Schick V, Springer AE, Vaughan EM, Markham C, Gitari S. Sleep disturbance as a precursor to anxiety, depression, and PTSD among rural Kenyans: a cross-lagged panel analysis from a rural Kenyan interventional cohort. *Journal of Sleep Research*. 2023;e14119. doi: 10.1111/jsr.14119. PMC11164828.
28. De La Cerda I*, Bauer C, Zhang K, **Lee M**, Jones M, Rodriguez A, McCormick JB, Fisher-Hoch SP. Evaluation of a targeted COVID-19 community outreach intervention: a model for precision public health. *JMIR Public Health and Surveillance*. 2023;Dec 20:9:e47981. PMC 10765283.
29. Garcia-Sayan E, **Lee M**, Stone JR, Stone DM, McPherson DD, Fisher-Hoch SP, McCormick JB, Laing S. Endothelial dysfunction and cardiometabolic risk factors in Mexican American adults: The Cameron County Hispanic Cohort. *Am J Cardio*. 2023; 205:75-83. doi: 10.1016/j.amjcard.2023.07.165. PMID:37595411.
30. Kim D*, Memili A, Chen HH, Highland HM, Polikowsky HG, Yaser M, **Lee M**, McCormick JB, Fisher-Hoch SP, Below JE, North KE, Gutierrez AD. Sex-specific Associations between Adipokine profiles and carotid-intima media thickness in the Cameron County Hispanic Cohort (CCHC). *Cardiovascular Diabetology*, 2023;22:231. doi: 10.1186/s12933-023-01968-4. PMC10472619.
31. Maxwell RA, Reisinger-Kindle K, Rackett TM, Yaklic JL, Czerwinski SA, **Lee M**. Perceived quality of sleep across the menopausal transition. *Health Science Reports*. 2023;6:e1250. doi: 10.1002/hsr2.1250. PMC10240097.
32. Medrano B*, **Lee M**, Gemeinhardt G, Rodriguez-Herrera JE, Garcia-Viveros M, Restrepo BI. Tuberculosis presentation and outcomes in elderly Hispanics from Tamaulipas, Mexico. *Medicina*. 2023; 102(41) e35458. doi: 10.1097/MD.0000000000035458. PMC11131009.
33. Sharpton SR, Shan K, Bettencourt R, **Lee M**, McCormick JB, Fisher-Hoch SP, Loomba R. Prevalence and factors associated with liver fibrosis among first-degree relatives of Mexican Americans with HCC. *Aliment Pharmacol Ther*. 2023;57(4):378-386. doi: 10.1111/apt.17384. PMID: 36628455.
34. Heckler B*, **Lee M**, Stone K, Bauer CC, Xiao Q. Cross-sectional and prospective associations of rest-activity rhythms with body mass index in older men: A novel analysis using Harmonic Hidden Markov Models. *J Biol Rhythms* 2023;38(1):87-97. doi: 10.1177/07487304221134163. PMID:36416436.
35. Bauer CC, Xiaona L, Zhang K, **Lee M**, Guajardo E, Fisher-Hoch SP, McCormick J, Fernandez M, Reininger B. A Novel Bayesian Spatial-temporal approach to quantify SARS-CoV-2 testing disparities for small area estimation. *Am J Public Health* 2023;113(1):40-48. doi: 10.2105/AJPH.2022.307127. PMID:36516388
36. Neblett MF 2nd, Lindheim SR, Khan Z, Christianson MS, Chung RK, Coyne KD, Flyckt R, Fitz VW, Gornet ME, Hammer KC, **Lee M**, Maxwell RA, Petrozza JC. Dissecting into endometriosis classification: why it does not always add up. *Fertil Steril* 2022;118(6):1046-1047. PMID: 36371320.
37. Orlowski M, Shermadou S, **Lee M**, Hinson-Enslin A, Nahhas RW. Roles of perceived parent practices and self-efficacy in increasing fruit and vegetable consumption in adolescents. *Health Education Journal*. 2022 doi.org/10.1177/00178969221125637
38. Blackburn CC, Jones M, **Lee M**, Bauer C, Rodriguez A, Garcia R, Fisher-Hoch SP, McCormick JB, Zhang K, Garrett A, Esteves J. Autoethnographic Examination of Data-Drive, Community-

Tailored COVID-19 Response in Brownsville, Texas. *Journal of Humanistic Psychology*. 2022 Aug 24. doi.org/10.1177/00221678221118708

39. Low EV*, Lee M, Bauer C, Fisher-Hoch SP, McCormick JB, Abughosh Su, Essien EJ, Rodriguez J, Chen H. Association of puberty stage and weight status with cardiometabolic risk in children and adolescents living on the Texas-Mexico Border. *Metab Syndr Relat Disord*. 2022;20(8):440-450. PMC9595617.

40. Gutierrez AD, Flores CA, Naik S, Lee MJ, Asgarisabet P, Resman M, Lee M, McCormick JB, Fisher-Hoch SP. Resistin levels decrease as insulin resistance increases in a Mexican-American cohort. *Cytokines*. 2021;148:155687. doi: 10.1016/j.cyto.2021.155687. PMC10960335.

41. Bauer C, Zhang K, Lee M, Jones M, Rodriguez A, De L Cerdá I, Reininger B, Fisher-Hoch SP, McCormick JB. Real-time geospatial analysis identifies gaps in COVID-19 vaccination in a minority population. *Sci Rep*. 2021;11(1): 18117. doi: 10.1038/s41598-021-97416-y. PMC8437959.

42. Bauer C, Zhang K, Lee M, Fisher-Hoch S, Guajardo E, McCormick J, De L Cerdá I, Fernandez M, Reininger B. Census tract patterns and contextual social determinants of health associated with COVID-19 in a Hispanic Population from South Texas. *JMIR Public Health and Surveillance*. 2021;7(8):e29205. doi:10.2196/29205. PMC8354426.

43. Zhang K*, Reininger B, Lee M, Xiao Q, Bauer C. Individual and community social determinants of health associated with diabetes management in a Mexican American population. *Front Public Health* 2021;8:6333-40. PMC7888279

44. Walsh S*, Salazar-Collier C, Booth R, Kellar L, Maxwell RA, Whigham LD, Lee M, Lindheim SR. Comparison of obstetrician-gynecologists and family physicians regarding weight-related attitudes, communication, and bias. *Obes Res Clin Pract*. 2021;15(4):351-356. PMID:33994147.

45. Smith MB*, Ho J, Lihong M, Lee M, Czerwinski SA, Glenn TL, Cool DR, Gagneux P, Stanczyk FZ, McGinnis LK, Lindheim SR. Longitudinal anti-müllerian hormone and pubertal milestones. *F S Rep*. 2021;2(2):238-244. PMC8267383.

46. De L Cerdá I*, Lee M, Schmele K, McCormick JB, Fisher-Hoch SP. Hysterectomy-corrected cervical cancer incidence reveal larger racial disparities in Texas 2012-2014: Hysterectomy-corrected cervical cancer incidence in Texas. *Cancer Health Disparities* 2020. /doi:10.9777/chd.2020.1003

47. Gill C*, Lee M, Vatcheva KP, Rianon N, Smulevitz B, McPherson DD, McCormick JB, Fisher-Hoch S, Laing ST. Association of visceral adipose tissue and subclinical atherosclerosis in US-born Mexican Americans but not first generation immigrants. *J Am Heart Assoc* 2020; Oct 20;9(20):e017373. Doi: 10.1161/JAHA.120.017373. PMC7763390

48. Limon VM*, Gonzalez B, Lee M, Choh AC, Czerwinski SA. The impact of metabolic syndrome on mental health-related quality of life and depressive symptoms. *Qual Life Res* 2020; 29(8):2063-2072. PMC7513573

49. Madeira JL, Christianson MS, Lee M, Parry JP, Pennings G, Lindheim SR. Informed and Consent: More than just sign here. *J Reprod Med*. 2020;65(4): 213-219

50. Watt GP*, De La Cerdá I, Pan JJ, Fallon MB, Beretta L, Loomba R, Lee M, McCormick JB, Fisher-Hoch SP. Elevated glycated hemoglobin is associated with liver fibrosis as assessed by elastography in a population-based study of Mexican Americans. *Hepatol Commun*. 2020; 4:1793-1801 PMC7706295

51. Pike J*, Marsden D, Wilkinson AV, **Lee M**, McCormick JB, Fisher-Hoch S. Susceptibility, trial, and current use prevalence of Cigarettes, E-cigarettes, Cigars, Snus, and Snuff Products in Mexican-Americans Adults at Texas-Mexico Border. *Journal of Family Strengths*. 2020;20(1):8. Available at: <https://digitalcommons.library.tmc.edu/jfs/vol20/iss1/8>
52. Snyder K*, Hill M, **Lee M**, Crawford T, Orlowski M. The relationships between physical health and chronic disease, stress, and resource strain in Head Start employees. *Workplace Health Saf* 2020;68(4):190-201, PMID: 31735135
53. Hsu YH, Estrada K, Evangelou E, Ackert-Bicknell C, Akesson K, Beck T, Brown S, Capellini T, Carbone L, Cauley J, Cheung CC, Cummings S, Czerwinski S, Demissie S, Econs M, Evans D, Farber C, Gautvik K, Harris T, Kammerer C, Kemp J, Koller D, Kung A, Lawlor D, **Lee M**, Lorentzon M, McGulgan F, Medina-Gomez C, Mitchell B, Newman A, Nielson C, Ohlsson C, Peacock M, Reppe S, Richards B, Robbins J, Sigurdsson G, Spector T, Stefansson K, Streeten E, Styrkarsdottir U, Tobias J, Trajanoska K, Uitterlinden A, Vandenput L, Wilson S, Yerges-Armstrong L, Young M, Zillikens C, Rivadeneira F, Kiel D, Karasik D. Meta-analysis of genome-wide association studies reveals genetic variants for hip bone geometry. *J Bone Miner Res* 2019; 34(7):1284-96. PMC6650334
54. **Lee M**, Breyer PR, Pascoe JM. Children's age, family conflict and children's HbA1c: Are girls and boys different? *South Med J*. 2019; 112(1):16-20. PMID: 30608625
55. Lindheim SR, Lincenberg K, Hood D, Maxwell R, **Lee M**. The impact of hysteroscopic intrauterine morcellator systems on histopathologic analysis for benign and cancerous endometrial pathology: An *Ex Vivo* study. *J Obstet Gynaecol India*. 2019 Oct; 69(Supp 2):182-187. PMC6801286
56. Luong ETH*, Madeira JL, **Lee M**, Parry JP, Provost V, Pennings G, Lindheim SR. The fate of supernumerary cryopreserved embryos: Insights into patients' disposition decisions. *J Reprod Med*. 2019;64(5):326-334
57. Watt GP*, **Lee M**, Pan JJ, Fallon MB, Loomba R, Beretta L, McCormick JB, Fisher-Hoch SP. High prevalence of hepatic fibrosis, measured by Elastography, in a Population-based study of Mexican Americans. *Clin Gastroenterol Hepatol*. 2019 Apr; 17(5):968-975.e5. PMC6289899
58. Wu S, Fisher-Hoch SP, Reininger B, **Lee M**, McCormick JB, Fruit and vegetable intake is inversely associated with cancer risk in Mexican-Americans. *Nutr Cancer* 2019; 71(8):1254-1262. PMC7173711.
59. Gielen M, on behalf of TELOMASS study. BMI is negatively associated with telomere length: a collaborative cross-sectional meta-analysis of 87 observational studies. *Am J Clin Nutr*. 2018; 108 (3):453-475. PMID: 30535086.
60. Khalil N, Ebert JR, Honda M, **Lee M**, Nahhas R, Koskela A, Hangartner T, Kannan K. Per-fluoroalkyl substances, bone density, and cardio-metabolic risk factors in obese 8-12 year old children: A pilot study. *Environ Res*. 2018;160:314-321. PMID:29040951.
61. Lucas K*, James P, Choh AC, **Lee M**, Czerwinski SA, Demerath EW, Johnson W. The positive association of infant weight gain with adulthood body mass index has strengthened over time in the Fels Longitudinal Study. *Pediatr Obes*. 2018; 13(8): 476-484. PMID: 29493107.
62. Madeira JL, Rehbein J, Christianson MS, **Lee M**, Parry JP, Pennings G, Lindheim SR. Improving Ovulation Induction-Intrauterine Insemination and In-Vitro Fertilization Informed Consent through the EngagedMD Multimedia Platform. *Fertil Steril*. 2018;110:1338-1346 PMID: 30503133.
63. Rianon N, Ambrose CG, Buni M, Watt G, Reys-Ortiz C, **Lee M**, McCormick J, Fisher-Hoch S.

TBS is a valuable addition to BMD for bone quality assessment in older Mexican American Women with type 2 diabetes. *J Clin Densitom.* 2018; 21(3):355-359. PMC6045971.

64. Watt GP*, Fisher-Hoch SP, Rahbar MH, McCormick JB, **Lee M**, Choh AC, Thanikachalam S, Thanikachala M. Mexican American and South Asian population-based cohorts reveal high prevalence of type 2 diabetes and crucial differences in metabolic health phenotypes. *BMJ Open Diabetes Research & Care.* 2018;6(1):e000436. Doi:10.1136/bmjdrc-2017-00436. PMC5873536.

65. Johnson W, Choh AC, **Lee M**, Towne B, Czerwinski SA, Demerath EW. Is infant body mass index associated with adulthood body composition trajectories? An exploratory analysis. *Ped Obesity.* 2017;12(1):10-18. doi: 10.1111/ijpo.12100. PMID: 26756208.

66. **Lee M**, Pascoe JM, McNicholas CI. Reading, mathematics and fine motor skills at 5 years of age in US children who were extremely premature at birth. *Matern Child Health J.* 2017;21:199-207. doi:10.1007/s10995-016-2109-7. PMID:27423237.

67. Orlowski M, **Lee M**, Spears W, Narayan RJ, Pobocik RS, Kennel J, Krafka E, Patton S. Patterns in vegetable consumption: Implications for tailored school meal interventions. *J Sch Health.* 2017; 87(5):346-352. PMID: 28382664

68. Swanton S*, Choh AC, **Lee M**, Laubach LL, Linderman JK, Czerwinski SA, Peterson MJ. Body mass index associations between mother and offspring from birth to age 18: The Fels Longitudinal Study. *Obes Sci Pract.* 2017;3 (2):127-133. PMC5478810

69. Orlowski M, Patton S, Narayan R, Patrick A, Pobocik RS, Lodge A, Irick L, Roberts S, Kennel J, **Lee M**, Spears W. A statewide project to nudge healthy food choices: Process and Outcome Evaluation. *SAGE Research Methods Cases Part 2* 2016; Oct27. doi:10.4135/9781473971929.

70. Khalil N, Chen A, **Lee M**, Czerwinski SA, Ebert JR, Dewitt J, Kannan K. Association of per-fluoroalkyl substances, bone mineral density, and osteoporosis in the U.S. population in NHANES 2009-2010. *Environ Health Perspect* 2016;124(1):81-7. PMC4710590.

71. **Lee M**, Ebert JR, Kadakia MP, Zhang J, Czerwinski SA. Inverse associations between cardiometabolic risk factors and 25-hydroxyvitamin D in obese American children and adolescents. *Am J Hum Bio.* 2016;28(5):736-42. PMID:27135761.

72. Whitaker KM*, Choh AC, **Lee M**, Towne B, Czerwinski SA, Demerath EW. Sex differences in the rate of abdominal adipose accrual during adulthood: The Fels Longitudinal Study. *Int J Obes (Lond)* 2016;40(8): 1278-85. PMC4970892.

73. Hill NT*, Zhang J, Leonard MK, **Lee M**, Shamma N, Kadakia M. 1α , 25-dihydroxyvitamin D3 and the Vitamin D receptor regulate Δ Np63 α levels and keratinocyte proliferation. *Cell Death & Disease.* 2015;6: doi10.1038/cddis.2015.148. PMID: 26068789.

74. Choh AC, **Lee M**, Kent JW, Diego VP, Johnson W, Curran JE, Dyer TD, Bellis C, Blangero J, Siervogel RM, Towne B, Demerath EW, Czerwinski SA. Gene-by-age effects on BMI from birth to adulthood: The Fels Longitudinal Study. *Obesity* 2014;22(3):875-881. PMC3883986.

75. Khalil N, Chen A, **Lee M**. Endocrine disruptive compounds, weight gain, and cardiometabolic risk factors in children. *Curr Opin Pharmacol* 2014; 19:120-124. doi:10.1016/j.coph.2014.09.015. PMID: 25306432.

76. Khalil N, Ebert JR, Wang L, Belcher S, **Lee M**, Czerwinski SA, Kannan K. Bisphenol A and cardiometabolic risk factors in obese children. *Sci Total Environ.* 2014;470-471(1):726-732. PMID: 24184549.

77. Demerath EW, Choh AC, Johnson W, Curran JE, **Lee M**, Bellis C, Dyer TD, Czerwinski SA, Towne B. The positive association of obesity variants with adulthood adiposity strengthens over an 80-year period: A gene-by-birth year interaction. *Hum Heredity.* 2013; 75:175-85.

PMC4091039.

78. Johnson W, Choh AC, **Lee M**, Towne B, Czerwinski SA, Demerath EW. Characterization of the infant BMI peak: sex differences, birth year cohort effects, association with Concurrent adiposity, and heritability. *Am J Hum Biol*. 2013;25(3):378-88. PMC3988701.
79. Mueller NT, Johnson W, Odegaard AO, **Lee M**, Czerwinski SA, Demerath EW. Wrist breadth as a marker of insulin resistance in youth: The Fels Longitudinal Study. *Am J Hum Bio* 2013;25:581-5. PMC3988662.
80. Chumlea WC, Choh AC, **Lee M**, Towne B, Sherwood RJ, Duren D, Czerwinski SA. Maintaining function with aging: What we have learned from the Fels Longitudinal Study? *J Frailty Aging* 2012;1(2):50-51. PMC4187205.
81. Johnson W, Soloway L, Erickson D, Choh AC, **Lee M**, Chumlea WC, Siervogel RM, Czerwinski SA, Towne B, Demerath EW. A changing pattern of childhood BMI growth during the 20th century: 70 years of data from the Fels Longitudinal Study. *Am J Clin Nut*. 2012; 95:1136-43. PMID: 22418089.
82. **Lee M**, Choh AC, Williams KD, Schroeder V, Dyer TD, Blangero J, Cole SA, Chumlea WC, Duren DL, Sherwood RJ, Siervogel RM, Towne B, Czerwinski SA. Genome-wide linkage scan for quantitative trait loci for underlying normal variation in heel bone quantitative ultrasound measures. *J Nutr Health Aging*. 2012;16(1):8-13. PMC3928037.
83. **Lee M**, Choh AC, Demerath EW, Towne B, Siervogel RM, Czerwinski SA. Associations between trunk, leg and total body adiposity with arterial stiffness. *Am J Hypertens*. 2012; 25(10):1131-7. PMC3578479.
84. Choh AC, Nahhas RW, **Lee M**, Choi YS, Chumlea WC, Duren DL, Sherwood RJ, Towne B, Siervogel RM, Demerath EW, Czerwinski SA. Secular trends in blood pressure during early to middle adulthood: The Fels Longitudinal Study. *J Hypertens*. 2011; 29(5):838-45. PMID: 21430562.
85. Demerath EW, Rogers NL, Reed D, **Lee M**, Choh AC, Siervogel RM, Chumlea WC, Towne B, Czerwinski SA. Significant associations of age, menopausal status, and lifestyle factors with visceral adiposity in African American and European American women. *Ann Hum Biol*. 2011;38(3):247-56. PMC3245972.
86. Duren DL, Blangero J, Sherwood RJ, Seselj M, Dyer T, Cole SA, **Lee M**, Choh AC, Chumlea WC, Siervogel RM, Czerwinski SA, Towne B. Cortical bone health shows significant linkage to chromosomes 2p, 3p, and 17q in 10-year-old children. *Bone*. 2011; 49:1213-8. PMID: 21907839.
87. **Lee M**, Martin H, Firpo M, Demerath EW. Inverse association between adiposity and telomere length: The Fels Longitudinal Study. *Am J Hum Biol*. 2011; 23(1):100-6. PMC3245638.
88. **Lee M**, Nahhas RW, Choh A, Demerath EW, Duren DL, Chumlea WC, Sherwood RJ, Towne B, Siervogel RM, Czerwinski SA. Longitudinal changes in calcaneal quantitative ultrasound measures during childhood. *Osteoporosis Int*. 2011;22(8):2295-305. PMC3988661.
89. Sherwood RJ, Duren DL, Mahaney MC, Blangero J, Dyer TD, Cole SA, Czerwinski SA, Chumlea WC, Siervogel RM, Choh AC, Nahhas RW, **Lee M**, Towne B. A genome-wide linkage scan for quantitative trait loci influencing the craniofacial complex in humans (*Homo sapiens sapiens*). *Anat Rec (Hoboken)*. 2011;294(4):664-75. PMC3091483.
90. Nahhas RW, Choh AC, **Lee M**, Chumlea WC, Sherwood RJ, Duren DL, Towne B, Siervogel RM, Czerwinski SA. Bayesian longitudinal plateau model of adult grip strength. *Am J Hum Biol*. 2010;22:648-56. PMID: 20737612.
91. Pascoe JM, **Lee M**, Specht SL, McNicholas CI, Spears W, Gans A, Heneghan AM. Mothers

with positive or negative depression screens evaluate a maternal resource guide. *J Pediatric Health Care*. 2010;24(6):378-84. PMIC20971413.

92. Choh AC, Demerath EW, **Lee M**, Williams KD, Towne B, Siervogel RM, Cole SA, Czerwinski SA. Genetic analysis of self-reported physical activity and adiposity traits: The Southwest Ohio Family Study. *Public Health Nutr* 2009;9:1-9. PMC2883310.
93. Chumlea WC, Choh A C, **Lee M**, Towne B, Sherwood RJ, Duren DL, Czerwinski SA, Siervogel RM. The first seriatim study into old age for weight, stature and BMI: The Fels Longitudinal Study. *J Nutr Health Aging*. 2009;13(1):3-5. PMC2801436.
94. Demerath EW, Reed D, Choh AC, Soloway L, **Lee M**, Czerwinski SA, Chumlea WC, Siervogel RM, Towne B. Rapid postnatal weight gain and visceral adiposity in adulthood: The Fels Longitudinal Study. *Obesity (Silver Spring)*. 2009;17(11):2060-6. PMC2801420.
95. **Lee M**, Choh AC, Demerath E, Knutson KL, Duren DL, Sherwood RJ, Sun SS, Chumlea WC, Towne B, Siervogel RM, Czerwinski SA. Sleep disturbance in relation to health-related quality of life in adults: The Fels Longitudinal Study. *J Nutr Health Aging*. 2009;13(6):576-583. PMC3988690.
96. Demerath EW, Reed D, Rogers E, Sun SS, **Lee M**, Choh AC, Couch WP, Czerwinski SA, Chumlea WC, Siervogel RM, Towne B. Visceral adiposity and its anatomical distribution as predictors of the metabolic syndrome and cardiometabolic risk factor levels. *Am J Clin Nutr*. 2008;88(5):1263-71. PMC2801420.
97. Chumlea WC, Choh AC, **Lee M**, Sherwood RJ, Duren DL, Czerwinski SA, Towne B, Siervogel RM. The Fels Longitudinal Study 80 years. *The Journal of Child Growth and Development (Japan)* 2008;6:174-7.
98. Duren DL, Sherwood RJ, Czerwinski SA, **Lee M**, Choh AC, Siervogel RM, Chumlea WC. Body composition methods: comparisons and interpretation. *J Diabetes Sci Tech*. 2008;2(6):1139-46. PMC2769821.
99. Duren DL, Sherwood RJ, Czerwinski SA, Chumlea WC, **Lee M**, Demerath EW, Sun SS, Siervogel RM, Towne B. Genetic architecture of knee radiographic joint space in healthy young adults. *Hum Biol* 2008;80(1):1-9. PMID: 19885303.
100. Towne B, Williams KD, Blangero J, Czerwinski SA, Demerath EW, Nahhas RW, Dyer TD, Cole SA, **Lee M**, Choh AC, Duren DL, Sherwood RJ, Chumlea WC, Siervogel RM. Presentation, heritability, and genome-wide linkage analysis of the mid-childhood growth spurt in healthy children from the Fels Longitudinal Study. *Hum Biol*. 2008;80(6):623-636. PMC2801436.
101. Czerwinski SA, **Lee M**, Choh AC, Wurzbacher K, Demerath EW, Towne B, Siervogel RM. Genetic factors in physical growth and development and their relationship to subsequent health outcomes. *Am J Hum Biol*. 2007;19:684-691. PMID:17636528.
102. Demerath EW, Choh AC, Czerwinski SA, **Lee M**, Sun SS, Chumlea WC, Duren D, Sherwood RJ, Blangero J, Towne B, Siervogel RM. Generic and environmental influences on infant weight and weight change: The Fels Longitudinal Study. *Am J Hum Biol*. 2007;19:692-702. PMC2801417.
103. Demerath EW, Shen W, **Lee M**, Choh AC, Czerwinski SA, Siervogel RM, Towne B. Approximation of total visceral adipose tissue with a single magnetic resonance image. *Am J Clin Nutr*. 2007;85:362-8. PMC2883309.
104. Demerath EW, Ritter KJ, Couch WA, Rogers NL, Moreno GM, Choh AC, **Lee M**, Remsberg KE, Czerwinski SA, Chumlea WC, Siervogel RM. Validity of a new automated software program for visceral adipose tissue estimation. *Int J Obes (Lond)*. 2007; 31: 285-91. PMC1783906.

105. Demerath EW, Sun SS, Rogers N, **Lee M**, Reed D, Choh AC, Couch W, Czerwinski SA, Chumlea WC, Siervogel RM, Towne B. Anatomical patterning of visceral adipose tissue: race, sex, and age variation. *Obesity (Silver Spring)*. 2007;15(12):2984-93. PMC2883307.
106. Duren DL, Sherwood RJ, Choh AC, Czerwinski SA, Chumlea WC, **Lee M**, Sun SS, Demerath EW, Siervogel RM, Towne B. Quantitative genetics of cortical bone mass in healthy 10-year-old children from the Fels Longitudinal Study. *Bone*. 2007;40:464-470. PMC1945206.
107. Remsberg KE, Rogers NL, Demerath EW, Czerwinski SA, Choh A, **Lee M**, Chumlea WC, Sun SS, Towne B, Siervogel R. Sex differences in young adulthood metabolic syndrome and physical activity: The Fels Longitudinal Study. *Am J Hum Biol*. 2007;19:544-50. PMID:17546618
108. Williams KD, Blangero J, Cottom CR, Lawrence S, Choh AC, Czerwinski SA, Lee M, Duren DL, Sherwood RJ, Dyer TD, Subedi J, Jha B, Williams-Blangero S, Towne B. Heritability of brachydactyly type A3 in children, adolescents, and young adults from an endogamous population in eastern Nepal. *Hum Biol*. 2007; 79(6): 609-22. PMID: 18494372.
109. Choh AC, Czerwinski SA, **Lee M**, Demerath EW, Wilson AF, Towne B, Siervogel RM. Quantitative genetic analysis of blood pressure activity to orthostatic tilt using principal component analysis. *J Hum Hypertens*. 2006;20:281-9. PMID:16437129.
110. **Lee M**, Czerwinski SA, Choh AC, Demerath EW, Sun SS, Chumlea WC, Towne B, Siervogel RM. Unique and common genetic effects between bone mineral density and calcaneal quantitative ultrasound measures: The Fels Longitudinal Study. *Osteoporos Int*. 2006;17:865-871. PMID:16541205.
111. **Lee M**, Czerwinski SA, Choh AC, Demerath EW, Sun SS, Chumlea WC, Towne B, Siervogel RM. Quantitative genetic analysis of cellular adhesion molecules: The Fels Longitudinal Study. *Atherosclerosis*. 2006;185:150-158. PMID:16005461.
112. Choh AC, Czerwinski SA, **Lee M**, Demerath EW, Towne B, Cole SA, Siervogel RM. Quantitative genetic analysis of blood pressure response to the cold pressor test. *Am J Hypertens*. 2005;18:1211-1217. PMID:16182112.
113. **Lee M**, Czerwinski SA, Choh AC, Towne B, Demerath EW, Chumlea WC, Sun SS, Siervogel RM. Heritability of calcaneal quantitative ultrasound measures in healthy adults from the Fels Longitudinal Study. *Bone*. 2004;35:1157-63. PMID:15542041.

Peer-reviewed articles under review/revision

*indicates students or trainees as first authors.

1. Anwar MY, Highland HM, Palmer AB, Duong T, Lin Z, Zhu W, Sprinkles J, Kim D, Young KL, Chen HH, Krishnan M, Gutierrez A, Roshani R, Frankel EG, Landman J, Gordon-Larsen P, **Lee M**, Fisher-Hoch SP, McCormick JB, Curran J, Blangero J, Meikle PJ, Giles C, Below JE, North KE, Graff M. The circulating lipidome in severe obesity. *medRxiv*. 2025. doi: 10.1101/2025.06.11.25329456. PMC12204428. *Circulation Research* (Under review).
2. Landman JM, Highland HM, [...], **Lee M**, Below JE, North KE, Shah RV, Proteomic signatures of pediatric cardiovascular and cardiometabolic traits demonstrate long-term modifiable drivers of adult disease. *medRxiv*. 2025. Doi: 10.1101/2025.10.27.25338754. *Nature Medicine* (Under review)
3. **Lee M**, Patnaik S, Molina E, McPherson DD, McCormick JB, Fisher-Hoch SP, Laing ST. Relationships between metabolic dysregulation and cardiac structure and function among Hispanics in South Texas. *Nutrition, Metabolism and Cardiovascular Diseases*. 2025 (under review)
4. Kim D*, Polikowsky HG, Highland HM, Chen HH, Zhu W, Zhang X, Gillman MG, Frankel EG, Roshani R, Wang Y, Young KL, Yaser Anwar M, Krishnan M, Buchanan VL, Berndt S, Arias JD, Raffield LM, Gutierrez AD, **Lee M**, McCormick JB, Fisher-Hoch SP, Below JE, North KE, Graff

M. Integrated genomic and transcriptomic study reveals MAPK11 and PER1 as important obesity susceptibility genes in a high-risk Hispanic/Latino Population. *Circulation: Genomic and Precision Medicine*. 2025 (Under review)

5. Santovito L, Roshani R, Cheek C, Yang Y, Wang TC, Lorenz A, Highland HM, Howard AG, Fisher-Hoch S, McCormick JB, Mahadavinia M, **Lee M**, Below JE, North KE, Graff M, Bishehsari F. Accelerated biological aging correlates with clinical outcomes and predicts organ damage in a population at high risk of chronic metabolic diseases. *eBioMedicine*, 2025 (Under review)

F. RESEARCH & EDUCATIONAL GRANTS

(Grants are organized by granting agency, project period, study title, principal investigators, and total award amounts)

Active Grants/Contracts:

With the role of Contact PI or consortium PI

R01 AG078452-01A1 (Lee /Rianon) 2.40 CM
 NIH/NIA 04/15/2023-01/31/2028
Title: Genomic, transcriptomic, and metabolic effects on skeletal health in Mexican Americans
Goal: To identify causal pathways between diabetes and skeletal health and offer better insights into skeletal health disparities in older Hispanic/Latino adults at risk for diabetes and fractures
Role: MPI (contact) Total cost: \$ 3,328,348

CPRIT RP220182 (Lee-subcontract PI, PI: Tsai) 1.80 CM
 CPRIT/Texas A & M 03/01/2023-02/28/2028
Title: Whole Genome DNA Methylation Markers for Tracking and Predicting Advanced Liver Fibrosis as a Precursor of Liver Cancer in NAFLD
Goal: To identify and validate cell-free DNA recoverable and differentially methylated regions that predict the advanced progression of liver fibrosis in non-alcoholic fatty liver disease in Mexican Americans
Role: Subcontract PI Total cost: \$699,886

With the role of Co-Investigator

R01 DK127084-01A1 (Contact PI: Gutierrez) 0.60 CM
 NIH/ NIDDK 07/09/2021-04/30/2026
Title: Pharmacogenetics of the Response to GLP-1 in Mexican-Americans with Prediabetes
Goal: This clinical trial will uncover new mechanisms of inter-individual responses to endogenous and exogenous glucagon-like peptide-1 (GLP-1) in Hispanics/Latinos with prediabetes.
Role: Co-investigator Total cost: \$4,006,887

R01 HL142302 (Below/McCormick/North) 0.60 CM
 NIH/NHLBI 07/01/2023-03/31/2027
Title: Hispanic Latino Lipid Consortium
Goal: To examine sociodemographic, epidemiological, and clinical laboratory data, and archived biological specimens from the existing and prospective study visits in association with cardiovascular disease risk in Hispanic/Latino populations
Role: Co-investigator Total cost: NA

R01 ES036253 (Contact PI: Chatzi, Subcontract PI: McCormick) 1.20 CM
 NIH/NIEHS 01/01/2025-12/31/2030

Title: PFAS and bone health in Latinos: emerging risk factors and underlying mechanisms

Goal: This subcontract aims to provide ancillary data, specifically multi-omic and other biological and clinical information as needed to contribute to the analysis of the underlying genetic basis for adverse bone health associated with exposure to environmental PFAS in the Hispanic minority population

Role: Co-investigator

Total cost (year 1): \$709,575

State of Texas (Contact PI: Hwang) 0.60 CM

Title: Texas Firefighter Cancer Study 09/01/2025 – 08/31/2027

Goal: To conduct a study that includes the work histories of new, active, and retired firefighters, air samples collected from fires to assess exposure to cancer-causing chemicals, and cancer data from the Texas Cancer Registry and other sources. The study aims to identify which groups of firefighters are at the most significant risk and to recommend policies and programs to protect their health.

Role: Co-investigator

Total cost: \$5,000,000

Pending: With the role of Contact PI or Co-Investigator

R21HD123145 (Lee)

NIH/NIA 07/01/2026-06/30/2025 1.80 CM

Title: Sleep trajectory and reproductive aging

Role: Contact PI

R01 (Contact PI: Wilkinson)

NIH/NIDA 07/01/2026-06/30/2031 2.40 CM

Title: Alexithymia, Depressive Symptoms and Nicotine Use among Texas College Students

Role: Co-investigator

R01 (Contact PI: Hwang) 0.60 CM

NIH/NIEHS 12/01/2025-11/30/2030

Title: Unveiling the Impact of Fire Smoke Neurotoxicants on Firefighters' Mental Health using Whole Shotgun Metagenomics

Role: Co-investigator

R01 (Contact PI: Hwang)

Completed Grants:

With the role of Contact PI or Co-Investigator: UTHHealth Houston

Contract 0017402 (Lee/Bauer) 04/22/2022 – 06/30/2024 1.20 CM

Cameron County Public Health

Title: CCPH COVID-19 Mapping and Vaccination Data Analysis

Goal: This project supports the data management and analysis for COVID-19 vaccination data, testing data, and case and fatality data including geospatial temporal Analysis in Cameron County, Texas.

Role: MPI (Contact PI)

Total cost: \$ 225,000

Grant (Fisher-Hoch) Valley Baptist Legacy Foundation	02/01/2021-01/31/2024	1.20 CM
Title: Establishment of a Public Health Laboratory and Integrated Data Management System for Cameron County and Municipalities		
Goal: This project supports the establishment of a sustainable diagnostic Public Health Laboratory to enhance control of COVID-19 and future infectious disease outbreaks, and aims to establish an information system and data analysis support using state-of-the-art analysis for outbreak control in Cameron County and municipalities.		
Role: Co-investigator		Total cost: \$ 748,301
 R01DK111201-05 (Lee/Curran)		
NIH/NIDDK	09/01/2017-08/31/2023 (NCE)	1.80 CM
Title: Telomere Length Dynamics In Relation To Changes In Adiposity And Metabolic Risk		
Goal: Using telomere length and telomerase activity as biomarkers of cellular aging, this study aims to investigate the longitudinal relationships between telomere dynamics and obesity and associated cardiometabolic diseases.		
Role: MPI (Contact PI)		Total cost: \$ 2,712,566
 6U3SHS45319 (McPherson/Fernandez/Reininger)		
Health Resources and Services Administration (HRSA)	11/2021 – 10/2022	3.00 CM
Title: Community-Based Workforce Development and Mobilization to Increase COVID-19 Vaccination Equity in Texas		
Role: Co-investigator		Total cost: NA
 3UL1TR003167-02S1 (McPherson/Fernandez/Reininger)		
NCATS/NIH/DHH	09/24/2020-08/31/2022	0.60 CM
Title: Center for Clinical and Translational Sciences-CCTS-RADx-UP		
Role: Co-investigator		Total cost: \$4,998,788
 4500430907 COVID-19 Contact Tracing Service (Tsai)		
City of San Antonio	12/01/2020-06/30/2021	0.60 CM
Title: COVID-19 Contact Tracing Service		
Role: Co-investigator		Total cost: 3,500,000
 <u>Wright State University</u>		
 Bill and Melinda Gates Foundation (Czerwinski/Choh) 07/28/2015-12/31/2016		
Title: Quantifying healthy birth, growth, and development knowledge integration		
Role: Co-investigator		Total cost: \$184,917
 R25HL103168 (Czerwinski)		
NIH/NHLBI	06/01/2010-02/28/2017	
Title: Short-term Training for Minority Students (STREAMS) program		
Role: Mentor		Total cost: \$694,440
 R01 HD012252 (Czerwinski)		
	07/07/2010 – 06/30/2016	

NIH/National Institute of Child Health & Human Development (NICHD)

Title: Adiposity, disease risk factors, and lifetime health

Role: Co-investigator

Total cost: \$7,358,388

R25GM086257 (Czerwinski) 03/01/2010-02/28/2016

NIH/NIGMS

Title: Post-baccalaureate Research Education Program (PREP) Scholars

Role: Mentor

Total cost: \$1,247,186

Wright State University Seed Grant (Lee) 07/01/2010 – 03/31/2014

Title: Adiposity and ectopic fat depots in relation to cardiometabolic risk in pubertal children; Abdominal MRI pilot study (AMPS)

Role: PI

Total cost: \$20,000

Wright State University Proteomic Seed Grant (Lee) 07/01/2012 – 09/30/2013

Title: Health outcomes of weight loss

Role: PI

Total cost: \$2,000

R01 AR052147 (Czerwinski) 09/01/2005 – 06/30/2012

NIH/NIAMS

Title: Genetic analysis of osteoporosis risk factors

Role: Co-I

Total cost: \$2,338,967

D54 HP 05465 (Pascoe) 09/01/2008 – 08/31/2011

US/Health Resources and Services Administration (HRSA)

Title: Academic Administrative Units in Primary Care

Role: Co-investigator

Total cost: NA

R01 HD38356, Subcontract to Virginia Commonwealth University (PI: Sun) 12/01/2007 –

06/30/2010

NIH/NICHD

Title: Childhood obesity and sexual maturation

Role: Subcontract PI/Co-I

Total cost: \$260,692

Research Grant (Ebert) 09/01/2007-08/31/2009

Children's Medical Center (CMC) of Dayton

Title: OSCIR (Oxidative stress in childhood insulin resistance)

Role: Co-investigator

Total cost: \$40,000

Boonshoft School of Medicine Seed Grant (Lee) 05/01/2007 – 06/30/2008

Title: Oxidative stress in childhood obesity and insulin resistance

Role: Co-investigator

Total cost: \$10,000

0665256B (Lee) 07/01/2006 – 06/30/2009

American Heart Association, Ohio Affiliate Beginning Grant-in-Aid program

Title: Genetic analysis of ankle-brachial index and peripheral arterial disease risk

Role: PI Total direct cost: \$121,000

0325331B (Lee) 07/01/2003 - 06/30/2005

American Heart Association, Postdoctoral Fellowship Grant

Title: Oxidized LDL and its role in inflammation and risk for cardiovascular disease

Role: PI Total direct cost: \$76,000

G. Meeting presentations and talks (past three years)

- Lee M et al., “Plasma proteomic profiles are associated with bone mineral density and quality in a Hispanic/Latino population”, American Society for Bone and Mineral Research, Sep 7, 2025, Seattle, WA
- “Bone Health in the RGV”. UTHealth Collaborative Action Board Quarterly meeting, Apr 15, 2025, Brownsville, TX
- “Introduction to public health”, UTHealth School of Bioinformatics and SPH STEM Immersion camp, Jul 8, 2025, Brownsville, TX
- Lee M and Choh AC. “Workshop series 2: Basic Statistics”. Rio Grande Valley Summer Science Internship. Jul 2, 2025, Brownsville, TX
- Lee M et al., “Adverse effects of Metabolic Dysfunction-Associated Steatotic Liver Disease on skeletal health in Mexican Americans”. American Society of Bone and Mineral Research, Sep 30, 2024, Toronto, Canada
- Lee M and Choh AC, “Basic Statistics for High School Students. Rio Grande Valley Summer Science Internship”. Jun 23, 2023, Brownsville, TX
- Lee M et al., “Examination of the role of diet quality on non-alcoholic fatty liver disease (NAFLD) among Hispanics in the Rio Grande Valley: a cross-sectional study” American Association for the Study of Liver Disease (AASLD) The Liver Meeting, Nov 10-14, 2023, Boston, MA.
- Lee M et al., “Varying determinants of endothelial dysfunction by age group among Mexican Americans”. American Heart Association Epi/Lifestyle 2023 Scientific Session, Feb 28 - Mar 3, 2023, Boston, MA
- “Past and present of Cameron County Hispanic Cohort Study”. UT Southwestern Center for Depression Research and Clinical Care, Feb 3, 2023, Dallas, TX.

H. TEACHING

UTHealth Houston, School of Public Health, Department of Epidemiology

<u>Date</u>	<u>Course</u>	<u>Semesters</u>
2019 - 2025	PH 2710L Epidemiology III (Asynchronous)	Spring (3 credits), Fall (3 credits), 13 semesters, Sole instructor
2018	PH2710 Epidemiology III (Synchronous)	Summer (3 credits) (Drs. Waller, Hanson, Lee)

Guest lecture

2018	PH2711 Epidemiology IV (Topic: Mediation Analysis)	Fall (Dr. Kimberly Waller)
2018	PH2612 Epidemiology I	Fall (Dr. Yu)

Wright State University Boonshoft School of Medicine, Dayton, Ohio

<u>Year</u>	<u>Course</u>	<u>Semester</u>
2014-2016	CMH 6100, Biostatistics for Health Professionals	Fall (3 credits), two semesters, Spring (3 credits), three semesters Sole instructor
2014	CMH 8220, Graduate Culminating Experience Research	Spring (1 credit)
2014	CMH 8110, Practice Placement	Spring (1 credit)
	CMH 8100-02, Critical Thinking in Public Health	Spring (1 credit, co-teaching, Dr. Stefan Czerwinski)
2013	CMH 8110, Practice Placement	Fall (1 credit)

Guest lecture

<u>Date</u>	<u>Course</u>	<u>Semester (Instructor)</u>
2012	CMH 791, Advanced Epidemiology (Topic: Cardiovascular Epidemiology)	Summer (Dr. Naila Khalil)
2011	CMH 791, Advanced Epidemiology (Topic: Cardiovascular Epidemiology)	Summer (Ms. Sylvia Ann Ellison)

I. MENTORING & ADVISING**Faculty and postdoctoral mentees**

<u>Dates</u>	<u>Name</u>	<u>Rank</u>	<u>Role</u>
2023-present	Dr. Christine Blackburn (Texas A&M University)	Assistant Professor	Informal mentor
2024-present	Dr. Ariana Garza (UTHealth Houston SPH)	Postdoctoral researcher	Co-mentor
2022-2024	Dr. Samaah Sullivan (UTHealth Houston SPH)	Assistant Professor	Mentor

UTHealth Houston, School of Public Health (19 Doctoral Students)

Department abbreviations: Epidemiology (EPI), Health Promotion & Behavioral Sciences (HPR), Biostatistics & Data Science (BIM), ABD (all but dissertation)

<u>Dates</u>	<u>Name</u>	<u>Department</u>	<u>Role</u>
2025 - present	May Hashish (ABD)	EPI	Dissertation Committee
2025 - present	Feng Wang (ABD)	BIM	Dissertation Committee
2021– 2024	Anayeli Herrera Morales, PhD	EPI	Dissertation Chair, Advisor
2022 - present	Ricardo Gomez (ABD)	HPR	Academic Advisor
2024 - present	Soo Kyung Park (ABD)	BIM	Dissertation Committee
2023 - present	Qian Qian (ABD)	BIM	Dissertation Committee
2023 – 2025	Zitong Zhang, PhD	BIM	Dissertation Committee
2023 - 2025	Yiqing Zhang, PhD	BIM	Dissertation Committee
2023 - present	Maria Flores, MPH	EPI	Academic Advisor

2022 - present	Ella Garza, MPH	EPI	Academic Advisor
2024 – present	Erica Reyes (ABD)	HPR	Dissertation Committee
2022 – present	Kehe Zhang (ABD)	BIM	Dissertation Committee
2020 - 2022	Isela De La Cerdá, PhD	EPI	Dissertation Supervisor
2020 – 2023	Belinda Medrano, PhD	EPI	Dissertation Committee
2018 - present	Jessica Rodriguez (ABD)	EPI	Dissertation Chair
2022 - 2024	Okechukwu Erinne, MD, PhD	EPI	Dissertation Committee
2019 - 2023	Ariana Garza, PhD	EPI	Dissertation Committee
2019 - 2022	Jessica Pena, Dr.PH	HPR	Dissertation Committee
2018 - 2020	Miriam Martinez, Dr.PH	HPR	External reviewer

UTHealth Houston, School of Public Health (19 Master of Public Health students)

<u>Dates</u>	<u>Name</u>	<u>Department</u>	<u>Role</u>
2024 - present	Lizett Cruz	EPI	Thesis Chair
2025 - present	Caleb A. Castillo	EPI	Thesis Chair
2024 -2025	Mia Aguirre, MPH	EPI	Thesis committee
2024 -2025	Susana Zavala, MPH	EPI	Academic Advisor
2024 -2025	Karla Ruelas, MPH	HPR	Academic Advisor
2023 -2024	Liz Elias Calles Cabanillas, MPH	BRW	Thesis committee
2021-2023	Maria Flores, MPH	EPI	Thesis Chair
2022-2023	Layla El-Haj, MPH	EPI	Thesis committee
2021-2022	Ella Garza, MPH	EPI	Thesis committee
2020-2021	Brian Heckler, MPH	BIM	Thesis committee
2020-2021	Kehe Zhang, MPH	BIM	Thesis committee
2020-2022	Aylin Flores, MPH	EPI	Academic Advisor
2018-2022	Mark Franco, MPH	EPI	Academic Advisor
2019-2021	Pablo Olvera, MPH	EPI	Academic Advisor
2018-2020	McKenzie Ford, MPH	EPI	Thesis Chair
2019-2020	Alan Villarreal Rizzo, MPH	EPI	Thesis Chair
2018-2019	Michael Roa, MPH	EPI	Thesis committee
2018-2019	Brandon Gonzalez, MPH	EPI	Thesis committee
2017-2018	Victoria Limon, MPH	HPR	Thesis committee

UTHealth Houston & UTRGV, RGV Summer Science Internships (RGVSSI) for High School Students

<u>Dates</u>	<u>Name</u>	<u>Role</u>
2025	Regina Moreno	Mentor
2023	Janeth Jimenez	Mentor
2023	Anllelin Sanchez	Mentor

2023	Gabriela Villarreal	Co-mentor
------	---------------------	-----------

UTHealth Houston, Summer Institutes for Undergraduate Students

<u>Dates</u>	<u>Name</u>	<u>Role</u>
2019	Jose Gonzalez, BS	Mentor
2018	Yash Motwani, BS	Co-mentor
2017	Roma Bhandarkar, BS	Co-mentor
2017	Umer Jalil, BS	Co-mentor

Outside UTHealth Houston

<u>Dates</u>	<u>Name</u>	<u>Institution</u>	<u>Role</u>
2024-2025	Emily Beglarian, PhD	University of Southern California (Keck School of Medicine)	Dissertation Committee
2025-present	Zhen Zeng, PhD candidate	University of Houston (College of Pharmacy)	Dissertation Committee
2019-2021	Ee Vien Low, PhD	University of Houston (College of Pharmacy)	Dissertation Committee

Wright State University Boonshoft School of Medicine, Dayton, Ohio

Post-doctoral Fellows

<u>Dates</u>	<u>Name</u>	<u>Role</u>
2008-2010	Dr. Naila Khalil	Co-mentor
2007-2009	Dr. Kimberly D. Williams	Co-mentor

Master of Public Health Culminating Experience Committee

<u>Dates</u>	<u>Name</u>	<u>Role</u>
2014-2015	Florence Sara Walusimbi, MPH	Chair
2012-2013	Betty Jean Cheney, MPH	Co-chair
2011	Leah K. Sabato, MPH	Member

GRAD-PREP Biomedical Graduate Preparation Program and Undergraduate Students (Short Term Research Experience Access for Minority Students (STREAMS) program NIH R25HL103168)

<u>Dates</u>	<u>Name (School)</u>	<u>Role</u>
2011-2012	Elizabeth Alvarez	Co-mentor
2015	Paloma R. Wiggins (Smith College)	Co-mentor
2015	Tevin M. Dorsey (North Carolina A&T State University)	Co-mentor

2014	Nelson G Castillo Rivera (University of Puerto Rico-Recinto)	Co-mentor
2013	Darian Vernon (University of South Carolina)	Co-mentor
	Nelson G Castillo Rivera (University of Puerto Rico-Recinto)	Co-mentor
2012	Katherine Smale (Wright State University)	Mentor
	Raquel Chambers (California State University, Sacramento)	Mentor
2009	Brittany Thompson (Chowan University)	Mentor
2008	Lauren E. Biekman (Vanderbilt University)	Mentor
2006	Jessica Chavez-Reyes (University of Texas at Brownsville)	Co-mentor
2005	Afton Jackson (Alcorn State University)	Mentor
2004	Obianuju Rita Mbamalu (Vanderbilt University)	Co-mentor

J. SERVICE AND ACADEMIC OUTREACH

1. International Committee Services (Skeletal Health)

2024-present Scientific Leadership Committee and HRpQCT working group (Senior advisor), International Society of Bone Morphometry (ISBM)

2025-present Program Organizing Committee for 2026 ISBM Biannual meeting, London, UK

2024-present Marketing, Communications & Membership Committee, Internal Society of Clinical Densitometry (ISCD)

2. National committee services

National Institute of Health (NIH) Grant Review (Ad Hoc member)

2025 Jul CSR Special Emphasis Review Panel (ZRG1) – Fellowships: Epidemiology (F18)

2025 Feb NIAMS Ancillary Studies to Ongoing Clinical Projects (High Impact Research and Research Infrastructure Cooperative Agreement Programs), CSR Special Emphasis Review Panel (ZAR1 AJ M1)

2024 Jul NIAMS Ancillary Studies to Ongoing Clinical Projects, CSR Special Emphasis Review Panel (ZAR1 AJ M1)

2023 Nov The Aging Injury, Musculoskeletal, and Rheumatologic Disorders (AIMR) study section

2023 Feb NIA Research Program Cooperative Agreement (U19)

2021 -2023 CSR Special Emphasis Review Panel (ZRG1) - Fellowships: Risk, Prevention and Health Behavior section (F16) (participated in four review panels, Oct 2021, Feb 2022, Feb 2023 & July 2023)

2022 Jul	CSR Special Emphasis Review Panel (ZRG1)-Fellowships: Epidemiology and Population Sciences section (F18)
2020 Feb	Biobehavioral Mechanisms of Emotion, Stress and Health (MESH) study section
2019 June	Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP) study section
2009-2011	NHLBI, CSR Special Emphasis Panel/Scientific Review Group (ZHL1 CSR-Z M1). Pathway to Independence (PI) Award (K99/R00)

Other service

2021 -2023	The American Society for Reproductive Medicine (ASRM), The Society of Reproductive Surgeons, Surgical Scholar Track Fellowship program (Biostatistics faculty mentor)
------------	---

3. UNIVERSITY & DEPARTMENTAL SERVICE

UTHealth Houston, School of Public Health

2025 Feb	Grant Reviewer, Community Health Initiated Research Partnership (CHIRT) Fellowship Awards, Center for Clinical and Translational Sciences
2025 Jan - present	Member, Epidemiology Doctoral Study Experience Committees (Compensation & Career/Professional Development)
2024 Sep - present	Member, Epidemiology Preliminary Exam Committee (Chair Dr. Xianglin Du)
2023 - present	Member, UTHealth Houston Institute on Aging
2023 - present	Leadership team member, Translational Research Seminar Series, UTHealth Houston & University of Texas Rio Grande Valley
2022 Oct- present	Co-Chair, School of Public Health Brownsville Faculty Search Committee
2021-2025	Member, School of Public Health San Antonio Faculty Search Committee /Community Health Faculty Search Committee (Chair: Dr. Vanessa Schick)
2017–2023 Aug	Member, School of Public Health, Faculty Council
2020 Jun – present	Member, School of Public Health, Practice Council
2018 Sep - 2020 Aug	Member, Epidemiology Preliminary Exam Committee (Chair Dr. R. Sue Day)

Wright State University, Dayton, OH

2013-2016	Graduate Council (Elected)
2013-2016	Graduate Council/Policy Sub-Committee
2013-2014	Faculty Senate IT subcommittee
2010-2012	Faculty Senate Committee (Elected)

Wright State University, Boonshoft School of Medicine, Dayton, OH

2009-2010	Global Health Systems Student Research Travel Scholarship Review Committee, Department of Community Health
2008-2012	Academic Administrative Unit (AAU) Project Steering Committee, Department of Pediatrics
2008-2016	Southwestern Ohio Ambulatory Research Network (SOAR-Net) Leadership Committee, Department of Pediatrics
2009-2010	Data Sharing Committee, Department of Community Health, Lifespan Health Research Center

4. REVIEWER FOR PEER-REVIEWED JOURNALS

Editorial Board

- Fertility and Sterility (Methodologic Editor, 2021-2024)
- Frontiers in Cardiovascular Genetics and Systems Medicine (Review editor)
- Frontiers in Applied Genetic Epidemiology (Review editor)

Reviewer: AGE, American Journal of Hypertension, American Journal of the Medical Sciences, American Journal of Preventive Medicine, Preventive Medicine, Annals of Human Biology, BMC Public Health, British Journal of Nutrition, Metabolism, Clinical Endocrinology (Oxf), BMC Musculoskeletal Disorders, Bone & Joint Research, Calcified Tissue International, Osteoporosis International, International Journal of Obesity, International Journal of Pediatric Obesity, Journal of Adolescent Health, Paediatric and Perinatal Epidemiology, Journal of Pediatrics, Pediatrics, Journal of Psychosomatic Research, Quality of Life Research, Environmental International, Environmental Pollution, Heliyon

5. COMMUNITY SERVICE

<u>Dates</u>	<u>Organization/Activities</u>
2024 – present	Dementia Action Coalition , Cameron County, TX
2022 – present	Collaborative Action Board , UTHealth SPH, Brownsville, TX
2020-2023	COVID-19 tracking, testing, and vaccination collaboration with public health departments Served as an academic liaison with three public health entities: Cameron County Public Health, Brownsville Public Health, and the Northeast Public Health Districts (NET Health). Oversaw the preparation of weekly and monthly reports on COVID-19 testing, case tracking, and the development of local COVID-19 dashboards
2012	Alcohol and Other Drug Abuse Advisory & Treatment Committee, Office of Family and Children First, Montgomery County, OH
2001- 2002	Community Health Speaker's Bureau, Pittsburgh, PA Developed seminar courses and presented topics as a Community Health speaker at various senior centers. Topics include "Fall and fractures in the elderly" and "Keeping it together – Urinary incontinence"

K. PROFESSIONAL MEMBERSHIPS

<u>Dates</u>	<u>Association</u>
2023– present, 1998-2003	The American Society of Bone and Mineral Research
2022 – present	International Society of Clinical Densitometry
2003 – present	American Heart Association
2021-2024	The American Society for Reproductive Medicine
2011-2022	The Obesity Society

L. RESEARCH SKILLS

Analytical Programs: SAS®, IBM SPSS statistics, STATA, R/R studio, Python

Unix-based genetic analysis software: SOLAR (Sequential Oligogenic Linkage Analysis Routines), PedSys.

Laboratory information management system: Freezerworks Unlimited (Dataworks Development, Inc., Mountlake Terrace, WA), FreezerPro® Sample Management System (Azenta Life Sciences)