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Border Health Research Center
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EDUCATION

2011 MS-CR, Department of Family Medicine, University of Kansas Medical Center
2009 PhD, Department of Anthropology, University of Kansas
2001 MA, Department of Anthropology, University of Kansas
1995 BS, *Summa Cum Laude*, Department of Zoology, University of Oklahoma
1995 BA, with distinction, Department of Anthropology, University of Oklahoma

PROFESSIONAL APPOINTMENTS

2025- Associate Professor, Department of Epidemiology, UTHealth Houston School of Public Health, Brownsville campus
2024-2025 Associate Professor, Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2021-2025 Faculty Mentor, Applied Epidemiology Concentration, MPH@UNC, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2015-2024 Assistant Professor, Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2012-2015 Postdoctoral Scholar, Carolina Population Center, University of North Carolina at Chapel Hill
2009-2011 Research Instructor, Department of Family Medicine, University of Kansas Medical Center

PUBLICATIONS

Refereed Journal Articles

^co-first or senior authors, *mentees

2025

1. Lee S, Miller CL, Bentley AR, Brown MR, Nagarajan P, Noordam R, Morrison J, Schwander K, Westerman K, Kho M, Kraja AT, Vries PS de, Ammous F, Aschard H, Bartz TM, Do A, Dupont CT, Feitosa MF, Gudmundsdottir V, Guo X, Harris SE, Hikino K, Huang Z, Lefevre C, Lyytikäinen LP, Milaneschi Y, Nardone GG, Santin A, Schmidt H, Shen B, Sofer T, Sun Q, Tan YA, Tang J, Thériault S, Most PJ van der, Ware EB, Weiss S, Xing WY, Yu C, Zhao W, Ansari MAY, Anugu P, Attia JR, Bazzano LA, Bis JC, Breyer M, Cade B, Chen G, Collins S, Corley J, Davies G, Dörr M, Du J, Edwards TL, Faquih T, Faul JD, Fohner AE, Fretts AM, Gangireddy S, Gepner A, Graff M, Hofer E, Homuth G, Hood MM, Jie X, Kähönen M, Kardina SL, Karvonen-Gutierrez CA, Launer LJ, Levy D, Maheshwari M, Martin LW, Matsuda K, McNeil JJ, Nolte IM, Okochi T, Raffield LM, Raitakari OT, Risch L, Risch M, Roux AD, Ruiz-Narvaez EA, Russ TC, Saito T, Schreiner PJ, Scott RJ, Shikany J, Smith JA, Snieder H, Spedicati B, Tai ES, Taylor AM, Taylor KD, Tesolin P, Dam RM van, Wang R, Wenbin W, Xie T, Yao J, **Young KL**, Zhang R, Zonderman AB, Project TBJ, Study LC, Concas MP, Conen D, Cox SR, Evans MK, Fox ER,

- Fuentes L de las, Giri A, Girotto G, Grabe HJ, Gu C, Gudnason V, Harlow SD, Holliday E, Jost JB, Lacaze P, Lee S, Lehtimäki T, Li C, Liu CT, Morrison AC, North KE, Penninx BW, Peyser PA, Province MM, Psaty BM, Redline S, Rosendaal FR, Rotimi CN, Rotter JI, Schmidt R, Sim X, Terao C, Weir DR, Zhu X, Franceschini N, O'Connell JR, Jaquish CE, Wang H, Manning A, Munroe PB, Rao DC, Chen H, Gauderman WJ, Bierut L, Winkler TW, Fornage M. A Large-Scale Genome-wide Association Study of Blood Pressure Accounting for Gene-Depressive Symptomatology Interactions in 564,680 Individuals from Diverse Populations. *Under review at Genome Biology*.
2. Ferrier K, Graff M, Konigsberg IR, Stanislawski M, Highland HM, Raffield LM, Carson AP, Boerwinkle E, Norris JM, Gignoux CR, Hendricks AE, Raghavan S, North KE, **Young KL**, Justice AE, Allison MA, Budoff MJ, Kasela S, Aguet F, Joseph JJ, Kooperberg C, Rich SS, Rotter JI, Lange EM, Lange LA. Epigenome-wide association study meta-analysis of BMI in African American Adults. *Under review at HGG Advances*.
3. Nichols JC*, Katz DH, Tahir UA, Debban CL, Aguet F, Blackwell T, Bowler RP, Broadaway A, Chen J, Clish CB, Coresh J, Cornell E, Cruz DE, Deo R, Doyle MF, Durda P, Ekunwe L, Floyd JS, Gill DPS, Guo X, Hoogeveen RC, Johnson C, Lange LA, Li Y, Manning A, Meigs JB, Mi MY, Mychaleckyj JC, Olson NC, Pratte KA, Psaty BM, Reiner AP, Ruan P, Sevilla-Gonzalez M, Shah AM, Sun Q, Tracy RP, Wen J, Wood AC, Wilson JG, **Young KL**, Yu B, Rooney MR, Manichaikul A, Dubin R, Mohlke KL, Rich SS, Rotter JI, Ganz P, Gerszten RE, Taylor KD, Raffield LM. Cross-ancestry comparison of aptamer and antibody protein measures. *Under review at Nature Genetics*.
4. Noordam R, Wang W, Nagarajan P, Wang H, Brown MR, Bentley AR, Hui Q, Kraja AT, Morrison JL, O'Connell JR, Lee S, Schwander K, Bartz TM, Fuentes L de las, Feitosa MF, Guo X, Hanfei X, Harris SE, Huang Z, Kals M, Lefevre C, Mangino M, Milaneschi Y, Most P van der, Pacheco NL, Palmer ND, Rao V, Rauramaa R, Sun Q, Tabara Y, Vojinovic D, Wang Y, Weiss S, Yang Q, Zhao W, Zhu W, Ansari MAY, Aschard H, Anugu P, Assimes TL, Attia J, Baker LD, Ballantyne C, Bazzano L, Boerwinkle E, Cade B, Chen H hsin, Chen W, Chen YDI, Chen Z, Cho K, Anda-Duran ID, Dimitrov L, Do A, Edwards T, Faquih T, Hingorani A, Fisher-Hoch SP, Gaziano JM, Gharib SA, Giri A, Ghanbari M, Grabe HJ, Graff M, Gu CC, He J, Heikkinen S, Hixson J, Ho YL, Hood MM, Houghton SC, Karvonen-Gutierrez CA, Kawaguchi T, Kilpeläinen TO, Komulainen P, Lin HJ, Linchangco GV, Luik AI, Ma J, Meigs JB, McCormick JB, Menni C, Nolte IM, Norris JM, Petty LE, Polikowsky HG, Raffield LM, Rich SS, Riha RL, Russ TC, Ruiz-Narvaez EA, Sitlani CM, Smith JA, Snieder H, Sofer T, Shen B, Tang J, Taylor KD, Teder-Laving M, Triatin R, Tsai MY, Völzke H, Westerman KE, Xia R, Yao J, **Young KL**, Zhang R, Zonderman AB, Zhu X, Below JE, Cox SR, Evans M, Fornage M, Fox ER, Franceschini N, Harlow SD, Holliday E, Ikram MA, Kelly T, Lakka TA, Lawlor DA, Li C, Liu CT, Mägi R, Manning AK, Matsuda F, Morrison AC, Nauck M, North KE, Penninx BW, Province MA, Psaty BM, Rotter JI, Spector TD, Wagenknecht LE, Dijk KW van, Study LC, Program MV, Jaquish CE, Wilson PW, Peyser PA, Munroe PB, Vries PS de, Gauderman WJ, Sun YV, Chen H, Miller CL, Winkler TW, Rao DC, Redline S, Heemst D van. A Large-Scale Genome-Wide Gene-Sleep Interaction Study in 732,564 Participants Identifies Lipid Loci Explaining Sleep-Associated Lipid Disturbances. *Under review at Nature Communications*.
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;179(11). PMID: PMC12418218.
6. Smit RAJ, Wade KH, Hui Q, Arias JD, Yin X, Christiansen MR, Yengo L, Preuss MH, Nakabuye M, Rocheleau G, Graham SE, Buchanan VL, Chittoor G, Graff M, Guindo-Martínez M, Lu Y, Marouli E, Sakaue S, Spracklen CN, Vedantam S, Wilson EP, Chen SH, Ferreira T, Ji Y, Karaderi T, Lüll K, Machado M, Malden DE, Medina-Gomez C, Moore A, Rieger S, Akiyama M,

Allison MA, Alvarez M, Andersen MK, Appadurai V, Arbeeva L, Bartell E, Bhaskar S, Bielik LF, Bis JC, Bollepalli S, Bork-Jensen J, Bradfield JP, Bradford Y, Brandl C, Braund PS, Brody JA, Broeckel U, Burgdorf KS, Cade BE, Cai Q, Camarda S, Campbell A, Cañadas-Garre M, Chai JF, Chesi A, Choi SH, Christofidou P, Couture C, Cuellar-Partida G, Danning R, Degenhardt F, Delgado GE, Delitala A, Demirkan A, Deng X, Dietl A, Dimitriou M, Dimitrov L, Dorajoo R, Eichelmann F, Eliassen AU, Engmann JE, Erdos MR, Fairhurst-Hunter Z, Farmaki AE, Faul JD, Fernandez-Lopez JC, Forer L, Frank M, Freitag-Wolf S, Fritsche LG, Fuchsberger C, Galesloot TE, Gao Y, Geller F, Giannakopoulou O, Giulianini F, Gjesing AP, Goel A, Gordon SD, Gorski M, Grove J, Guo X, Gustafsson S, Haessler J, Hansen TF, Havulinna AS, Haworth SJ, Heard-Costa N, Hemerich D, Highland HM, Hindy G, Ho YL, Hofer E, Holliday E, Horn K, Hornsby WE, Hottenga JJ, Huang H, Huang J, Huerta-Chagoya A, Huo S, Hwang MY, Hwu CM, Iha H, Ikeda DD, Isono M, Jackson AU, Jansen IE, Jiang Y, Johansson I, Jonsson A, Jørgensen T, Kalafati IP, Kanai M, Kanoni S, Kårhus LL, Kasturiratne A, Katsuya T, Kawaguchi T, Kember RL, Kentistou KA, Kim D, Kim HN, Kim YJ, Kleber ME, Knol MJ, Kurbasic A, Lauzon M, Le P, Lea R, Lee JY, Lee WJ, Leonard HL, Li H, Li SA, Li X, Li X, Liang J, Lin H, Lin K, Liu J, Liu X, Lo KS, Long J, Lores-Motta L, Luan J, Lyssenko V, Lyytikäinen LP, Mahajan A, Malik MZ, Mamakou V, Mangino M, Manichaikul A, Marten J, Mattheisen M, McDaid AF, Mei Q, Meiselbach H, Melendez TL, Milanese Y, Miller JE, Millwood IY, Mishra PP, Mitchell RE, Møllehave LT, Mononen N, Mucha S, Munz M, Mykkänen J, Nakatochi M, Nardone GG, Nelson CP, Nethander M, Nho CW, Nielsen AA, Nolte IM, Nongmaithem SS, Noordam R, Ntalla I, Nutile T, Pandit A, Pauper M, Petersen ERB, Petersen LV, Piluso F, Polašek O, Poveda A, Pyarajan S, Raffield LM, Rakugi H, Ramirez J, Rasheed A, Raven D, Rayner NW, Riveros C, Rohde R, Ruggiero D, Ruotsalainen SE, Ryan KA, Sabater-Lleal M, Santin A, Saxena R, Scholz M, Shen B, Shi J, Shin JH, Sidore C, Sidorenko J, Sim X, Slieker RC, Smith AV, Smith JA, Smyth LJ, Southam L, Steinthorsdottir V, Sun L, Takeuchi F, Taylor KD, Tayo BO, Tcheandjieu C, Terzikhan N, Tesolin P, Teumer A, Theusch E, Thompson DJ, Thorleifsson G, Timmers PRHJ, Trompet S, Turman C, Vaccargiu S, Laan SW van der, Most PJ van der, Klinken JB van, Setten J van, Verma SS, Verweij N, Vaturi Y, Wang CA, Wang C, Wang JS, Wang L, Wang YX, Wang Z, Warren HR, Wei WB, Wen W, Wheeler WA, Wickremasinghe AR, Wielscher M, Winsvold BS, Wong A, Wuttke M, Xia R, Yamamoto K, Yang J, Yao J, Young H, Yousri NA, Yu L, Zeng L, Zhang W, Zhang X, Zhao JH, Zhao W, Zhou W, Zimmermann ME, Zoledziewska M, Hart LM 't, Adair LS, Adams HHH, Aguilar-Salinas CA, Al-Mulla F, Arnett DK, Asselbergs FW, Åsvold BO, Attia J, Banas B, Bandinelli S, Beilin LJ, Bennett DA, Bergler T, Bharadwaj D, Biino G, Boerwinkle E, Böger CA, Borja JB, Bouchard C, Bowden DW, Brandslund I, Brumpton B, Buring JE, Caulfield MJ, Chambers JC, Chandak GR, Chanock SJ, Chaturvedi N, Chen YDI, Chen Z, Cheng CY, Cho YS, Christensen K, Christophersen IE, Ciullo M, Cole JW, Collins FS, Concas MP, Cooper RS, Cruz M, Cucca F, Cutler MJ, Damrauer SM, Dantoft TM, Borst GJ de, Geus EJC de, Groot LCPGM de, Jager PLD, Kleijn DPV de, Silva HJ de, Dedoussis GV, Hollander AI den, Du S, Easton DF, Eckardt KU, Elders PJM, Eliassen AH, Ellinor PT, Elmståhl S, Erdmann J, Evans MK, Fatkin D, Feenstra B, Feitosa MF, Ferrucci L, Florez JC, Ford I, Fornage M, Franke A, Franks PW, Freedman BI, Gieger C, Girotto G, Golightly YM, Gonzalez-Villalpando C, Gordon-Larsen P, Grallert H, Grant SFA, Grarup N, Griffiths L, Gudnason V, Haiman C, Hakonarson H, Hansen T, Hartman CA, Hattersley AT, Hayward C, Heid IM, Heng CK, Hengstenberg C, Herzig KH, Hewitt AW, Hishigaki H, Hougaard DM, Hoyng CB, Huang PL, Huang W, Huang WY, Huffman JE, Hunt SC, Hutri N, Hveem K, Hyppönen E, Iacono WG, Ichihara S, Ikram MA, Isasi CR, Jarvelin MR, Jin ZB, Jöckel KH, Jonas JB, Joshi PK, Jousilahti P, Jukema JW, Kähönen M, Kamatani Y, Kang KD, Kaprio J, Kardina SLR, Karpe F, Kato N, Kavousi M, Kee F, Kessler T, Khera AV, Khor CC, Kiemeny LALM, Kim BJ, Kim EK, Kim HL, Kirchhof P, Kivimäki M, Koh WP, Koistinen HA, Kokkinos A, Kooner JS, Kooperberg C, Kovacs P, Kraaijeveld A, Kraft P, Krauss RM, Kumari M, Kutalik Z, Laakso M, Lange LA, Langenberg C,

- Launer LJ, Lee H, Lee NR, Lehtimäki T, Lemaitre RN, Li H, Li L, Lieb W, Lin X, Lind L, Linneberg A, Liu CT, Liu J, Loeffler M, London B, Lu F, Lubitz SA, Mackey DA, Magnusson PKE, Manson JE, Marcus GM, Vidal PM, Martin NG, März W, Matsuda F, McCarthy MI, McGarrah RW, McGue M, McKnight AJ, Medland SE, Mellström D, Metspalu A, Mitchell BD, Mitchell P, Mook-Kanamori DO, Mori TA, Morris AD, Mucci LA, Munroe PB, Nalls MA, Nazarian S, Nelson AE, Neville MJ, Newton-Cheh C, Nielsen CS, Niinikoski H, Nikus K, Nöthen MM, Ogunniyi A, Ohlsson C, Oldehinkel AJ, Orozco L, Pahlkala K, Pajukanta P, Palmer CNA, Parra EJ, Pattaro C, Pedersen O, Pennell CE, Penninx BWJH, Perusse L, Peters A, Peyser PA, Porteous DJ, Posthuma D, Power C, Pramstaller PP, Province MA, Psaty BM, Qi Q, Qu J, Rader DJ, Raitakari OT, Rallidis LS, Rao DC, Redline S, Reilly DF, Reiner AP, Rhee SY, Ridker PM, Rienstra M, Ripatti S, Ritchie MD, Rivadeneira F, Roden DM, Rosendaal FR, Rotter JI, Rudan I, Rutter F, Ryu S, Sabanayagam C, Salako B, Saleheen D, Salomaa V, Samani NJ, Sanghera DK, Sattar N, Schmidt B, Schmidt H, Schmidt R, Schulze MB, Schunkert H, Scott LJ, Scott RJ, Sever P, Sheu WHH, Shoemaker MB, Shu XO, Simonsick EM, Sims M, Singleton AB, Sinner MF, Smith JG, Snieder H, Spector TD, Spedicati B, Stampfer MJ, Stark KJ, Strachan DP, Tabara Y, Tai ES, Tang H, Tardif JC, Thanaraj TA, Tönjes A, Tuomi T, Tuomilehto J, Tusié-Luna MT, Dam RM van, Harst P van der, Velde NV der, Duijn CM van, Schoor NM van, Vitart V, Vohl MC, Völker U, Vollenweider P, Völzke H, Vrieze S, Wachter-Rodarte NH, Walker M, Wander GS, Wareham NJ, Watanabe RM, Watkins H, Weir DR, Werge TM, Widen E, Willemssen G, Willett WC, Wilson JF, Wilson PWF, Wong TY, Woo JT, Wright AF, Xu H, Yajnik CS, Yang J, Yokota M, Yuan JM, Zeggini E, Zemel BS, Zheng W, Zhu X, Zillikens MC, Zonderman AB, Zwart JA, Team 23andMe Research, Initiative) D (DiscovEHR and MCH, Network) eMERGE (Electronic MR and G, GPC-UGR, Consortium P, Group USS, Program VMV, Abecasis GR, Assimes TL, Auton A, Boehnke M, Chasman DI, Esko T, Stefansson K, Lettre G, Lindgren CM, Ng MCY, O'Donnell CJ, Thorsteinsdottir U, Visscher PM, Walters RG, Winkler TW, Wood AR, Deloukas P, Frayling TM, Justice AE, Kilpeläinen TO, Locke AE, Mohlke KL, North KE, Okada Y, Willer CJ, **Young KL**, Fatumo S, McCaffery JM, Timpson NJ, Hirschhorn JN, Sun YV, Berndt SI, Loos RJF. Polygenic prediction of body mass index and obesity through the life course and across ancestries. *Nat Med*. 2025;1–18. PMID: 40691366.
7. Scadden AW, Kakar A, Litkowski EM, Meyer MC, Armstrong ND, Buyske S, Cai Y, Cheng I, Darst BF, Fornage M, Graff M, Guo B, Haiman CA, Highland HM, Kooperberg C, Marchand LL, North K, Peters U, Rich SS, Rotter JI, Srinivasasainagendra V, Tiwari HK, Waldrop S, **Young K**, Raghavan S, Lange EM, Lange LA, Irvin MR, Stanislawski MA. Type 2 Diabetes Polygenic Risk Score Interactions with Lifestyle Risk Factors in Black Americans. *Lifestyle Genom*. 2025;18(1):90–97. PMCID: PMC12235720.
 8. Bentley AR, Brown MR, Musani SK, Schwander KL, Winkler TW, Sims M, Kilpeläinen TO, Aschard H, Bartz TM, Bielak LF, Chai JF, Chitrala KN, Franceschini N, Graff M, Guo X, Hartwig FP, Horimoto ARVR, Lim E, Liu Y, Manning AK, Nolte IM, Noordam R, Richard MA, Smith AV, Sung YJ, Vojinovic D, Wang R, Wang Y, Feitosa MF, Harris SE, Lyytikäinen LP, Pistis G, Rauramaa R, Most PJ van der, Ware E, Weiss S, Wen W, Yanek LR, Arking DE, Arnett DK, Ballantyne C, Boerwinkle E, Chen YDI, Daviglus ML, Fuentes L de las, Vries PS de, Delaney JAC, Fretts AM, Ekunwe L, Faul JD, Gallo LC, Heikkinen S, Homuth G, Ikram MA, Isasi CR, Jonas JB, Keltikangas-Järvinen L, Komulainen P, Kraja AT, Krieger JE, Launer L, Study LC, Aguirre-Gamboa R, Deelen P, Franke L, Kuivenhoven JA, Maya EAL, Nolte IM, Sanna S, Snieder H, Swertz MA, Visscher PM, Vonk JM, Wijmenga C, Wray N, Liu J, Lohman K, Luik AI, Manichaikul AW, Marques-Vidal P, Milaneschi Y, Mwasongwe SE, O'Connell JR, Rice K, Rich SS, Schreiner PJ, Schwettmann L, Shikany JM, Shu X ou, Smith JA, Snieder H, Sotoodehnia N, Tai ES, Taylor KD, Tinker L, Tsai MY, Uitterlinden AG, Duijn CM van, Heemst D van, Waldenberger M, Wallace RB, Wee HL, Weir DR, Wei WB, Dijk KW van, Wilson G, Yao J, **Young KL**, Zhang X, Zhao W, Zhu X, Zonderman AB, Deary IJ, Gieger C, Grabe HJ, Lakka TA,

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9. Kim D*, Highland HM, Smit RAJ, Hysong MR, Buchanan VL*, **Young KL**, Zhao C, Spracklen CN, Kilpeläinen TO, Guo B, Darst BF, Cai Y, Wang Z, Lundin J, Berndt SI, Manson JE, Marouli E, Lange L, Lange E, Fornage M, Gignoux CR, Haiman CA, Rich SS, Buyske S, Loos RJF, Kooperberg C, Peters U, Avery CL, Gordon-Larsen P, Graff M, Raffield LM, North KE. Genetic underpinnings of the heterogeneous impact of obesity on lipid levels and cardiovascular disease. *Genome Med*. 2025;17(1):113. PMID: PMC12502452
10. Krishnan M*, Anwar MY*, Justice AE, Chittoor G, Chen HH, Roshani R, Scartozzi A, Dickerson RR, Smit RAJ, Preuss MH, Chami N, Hadad BS, Parra EJ, Cruz M, Hui Q, Wilson PWF, Sun YV, Zhang X*, Linchangco GV, Kardina SLR, Faul JD, Weir DR, Bielak LF, Highland HM, **Young KL**, Qi B, Wang Y, Fornage M, Haiman C, Cheng I, Peters U, Kooperberg C, Buyske S, McCormick JB, Fisher-Hoch SP, Lona-Durazo F, Peralta J, Gomez-Zamudio J, Rich SS, Ferrier KR, Lange EM, Gignoux CR, Kenny EE, Wojcik GL, Cho K, Gaziano MJ, Djousse L, Liu S, Vaidya D, Mutsert R de, Josyula NS, Bauer CR, Zhao W, Walker RW, Smith JA, Lange LA, Meyer MC, Liu CT, Yanek LR, Lee M, Raffield LM, Loos RJF, Gordon-Larsen P, Below JE, North KE, Graff M. Genome-wide association study provides novel insight into the genetic architecture of severe obesity. *PLoS Genet*. 2025;21(9):e1011842. PMID: PMC12443252
11. 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. Multiomics of Human Obesity and Related Multisystem Diseases. *J Clin Endocrinol Metab*. 2025;dgaf373. PMID: 40581728
12. Nagarajan P, Winkler TW, Bentley AR, Miller CL, Kraja AT, Schwander K, Lee S, Wang W, Brown MR, Morrison JL, Giri A, O'Connell JR, Bartz TM, Fuentes L de las, Gudmundsdottir V, Guo X, Harris SE, Huang Z, Kals M, Kho M, Lefevre C, Luan J, Lyytikäinen LP, Mangino M, Milaneschi Y, Palmer ND, Rao V, Rauramaa R, Shen B, Stadler S, Sun Q, Tang J, Thériault S, Graaf A van der, Most PJ van der, Wang Y, Weiss S, Westerman KE, Yang Q, Yasuharu T, Zhao W, Zhu W, Altschul D, Ansari MAY, Anugu P, Argoty-Pantoja AD, Arzt M, Aschard H, Attia JR, Bazzanno L, Breyer MA, Brody JA, Cade BE, Chen H hsin, Chen YDI, Chen Z, Vries PS de, Dimitrov LM, Do A, Du J, Dupont CT, Edwards TL, Evans MK, Faquih T, Felix SB, Fisher-Hoch SP, Floyd JS, Graff M, Gu C, Gu D, Hairston KG, Hanley AJ, Heid IM, Heikkinen S, Highland HM, Hood MM, Kähönen M, Karvonen-Gutierrez CA, Kawaguchi T, Kazuya S, Kelly TN, Komulainen P, Levy D, Lin HJ, Liu PY, Marques-Vidal P, McCormick JB, Mei H, Meigs JB, Menni C, Nam K, Nolte IM, Pacheco NL, Petty LE, Polikowsky HG, Province MA, Psaty BM, Raffield LM, Raitakari OT, Rich SS, Riha RL, Risch L, Risch M, Ruiz-Narvaez EA, Scott RJ, Sitlani CM, Smith JA, Sofer T, Teder-Laving M, Völker U, Vollenweider P, Wang G, Dijk KW van, Wilson OD, Xia R, Yao J, **Young KL**, Zhang R, Zhu X, Below JE, Böger CA, Conen D, Cox SR, Dörr M, Feitosa MF, Fox ER, Franceschini N, Gharib SA, Gudnason V, Harlow SD, He J, Holliday EG, Kutalik Z, Lakka TA, Lawlor DA, Lee S, Lehtimäki T, Li C, Liu CT, Mägi R, Matsuda F, Morrison AC, Penninx BW, Peyser PA, Rotter JI, Snieder H, Spector TD, Wagenknecht LE, Wareham NJ, Zonderman AB, North KE, Fornage M, Program MV, Muralidhar S, Moser J, Deen JE, Tsao PS, Gaziano JM, Hauser E, Kilbourne A, Matheny M, Oslin D, Churby L, Whitbourne SB, Brewer JV, Shayan SA, Selva LE, Pyarajan S, Cho K, DuVall SL, Brophy MT, Stephens B, Connor T, Argyres DP, Assimes TL, Hung A, Kranzler H, Aguayo S, Ahuja S, Alexander K, Androulakis XM, Balasubramanian P, Ballas Z, Bast ES, Beckham J,

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- 2004 Frayer, DW, **Melvin K**. Fundamentals of Physical Anthropology Independent Study Text. 245 pp. Lawrence, KS: University of Kansas

Book Chapters

- 2012 **Young, KL**, Devor EJ, Crawford MH. Demic expansion or cultural diffusion: Migration and Basque Origins. pp.224-249. In: Crawford, MH, Campbell, BC (editors), *Causes and Consequences of Human Migration*. Cambridge: Cambridge University Press.

HONORS AND AWARDS

- 2014 Ethan Sims Young Investigator Finalist, The Obesity Society
- 2012 Postdoctoral Fellowship, Carolina Population Center, University of North Carolina at Chapel Hill
- 2011 Invited International Faculty, 7th ISABS Conference in Forensic, Anthropologic, and Medical Genetics and Mayo Clinic Lectures in Translational Medicine, Bol, Croatia
- 2010 NIH Summer Institute for Transdisciplinary Research: Integrating Genetic and Social Work Research
- 2009-2011 K30 Clinical Research Fellowship, Department of Preventive Medicine and Public Health, University of Kansas Medical Center
- 2009-2011 NRSA Postdoctoral Fellowship, Department of Family Medicine, University of Kansas Medical Center
- 2007 William S. Pollitzer Prize, American Association of Physical Anthropologists
- 2007 Carroll D. Clark Research Award, Department of Anthropology, University of Kansas
- 1996-2000 Honors Fellowship, University of Kansas
- 1995 Phi Beta Kappa, University of Oklahoma

GRANTS

Ongoing Research Support

- 2021-2025 NIH (PI: Rao)
A Multi-ancestry study of gene-lifestyle interactions and multi-omics in cardiometabolic traits
Evaluate gene-lifestyle interactions across diverse populations for cardiometabolic

2020-2025 traits across lifestyle factors.
NIDDK (PI: North)
Integrative approaches to identifying function and clinical significance of adiposity susceptibility genes.
Integrate multiomics to functionally validate obesity GWAS loci and evaluate clinical utility.

Completed Research Support

2017-2024 NHLBI (PI: **Young**)
NIH Loan Repayment Program

2022-2024 NHGRI (PI: Ding)
A summary-data-based Mendelian randomization method with application to correlated lipidomic data
Develop a summary-data-based Mendelian randomization method for use with high-dimensional correlated -omics data while accounting for variation.

2020-2024 NHLBI (PI: Lin)
Semiparametric Analysis of Big Censored Data
Develop semiparametric regression methods for analyzing censored data commonly encountered in biomedical research on chronic diseases.
Role: Co-Investigator

2018-2024 NIDDK (PI: Sandler)
Risk factors for asymptomatic diverticulosis
Examine the etiology of diverticulosis and its chronic sequelae to develop logical interventions.
Role: Co-Investigator

2018-2024 NIH/NIMHD (PI: Manuck)
The pharmacogenomics of recurrent preterm birth in Non-Hispanic Black women
Investigate underlying pathophysiological mechanisms of recurrent spontaneous preterm birth and non- response to standard treatment in high risk non-Hispanic Black women. Role: Co-Investigator

2019-2023 NHGRI (PI: Matise)
PAGE IIIa: Population Architecture Using Genomics and Epidemiology
Identify the genetic underpinnings of common complex diseases in ancestrally diverse populations.
Role: Analyst

2018-2020 NHLBI (PI: Whitsel, Sub: Wake Forest University (Shumaker))
Women's Health Initiative Extension
To launch the next generation of cardiovascular health research projects that target older women in the Women's Health Initiative and the environments in which they live.
Role: Co-Investigator

2018-2020 NHLBI (PI: **Young**)
Refining obesity phenotypes using metabolomics in the Atherosclerosis Risk in Communities Study.
This project will identify metabolomic biomarkers for obesity risk and potential targets for pharmacological interventions.

2018-2019 NIH/NHLBI (PI: Li) *Genetic Studies of Blood Cell Traits in Multi-Ethnic Cohorts*
Role: Co-Investigator

2015-2018 KL2 Career Development Award, North Carolina Translational and Clinical Sciences Institute (PI: Buse)

From genetic signal to functional variant for obesity-related traits

The KL2 Program is a mentored, junior faculty career development award with a goal to train, support and retain the next generation of clinical translational researchers. Participants engage in didactic training, professional development and research activities to prepare them to launch their careers as independent scientists.

Role: Scholar

2015-2018 Grant-in-Aid, American Heart Association (PI: North)

Genetic and environmental determinants of obesity and cardiovascular risk across the lifecourse: The Santiago Longitudinal Cohort Study

This project investigates the role of genetics in influencing obesity and cardiovascular risk outcomes in participants from this longitudinal cohort studied since infancy, with repeated measures available on neurocognitive factors, socioemotional functioning, sleep, physical activity and family and social factors.

Role: Analyst

2013-2016 Grant-in-Aid, American Heart Association (PI: North)

Genetic architecture of adiposity in individuals of Hispanic descent

The goals of this project are to perform GWAS of body mass index in populations of Hispanic descent; and to investigate how common genetic variants interact with physical activity to influence adiposity risk in these populations. Role: Analyst

2014-2016 NIH Loan Repayment Program, National Institute on Minority Health and Health Disparities

Pending Support

2025 *Pharmaco-omics Approach Linking Hormone Therapy and Alzheimer's Disease* (PI: Seyerle)

Role: Co-I

2025 *Genomics and functional dissection of fetal brain abnormalities using a prenatal cohort* (PI: Vora)

Role: Co-I

INVITED PRESENTATIONS

2010 PTSD in refugee communities, Medical Interpreter Training Course, Jewish Community Services, Kansas City, Missouri.

2007 The Basque contribution to the peopling of Europe, Department of Sociology, Anthropology, and Social Work, Kansas State University.

CONFERENCE PRESENTATIONS

Conference Papers

2023

1. Buchanan V*, Highland H, Avery CL, Howard A, Buyske S, Cai J, Daviglus M, Isasi CR, Kaplan R, Kim D*, Graff M, Berndt S, Smit R, Arias J, Loos RJF, Qi Q, Rohde R, Rotter JI, Van Horn L, Yu B, Kooperberg C, Boerwinkle E, Justice A, Chittoor G, Wilson E, North KE, **Young KL**. Metabolite mediators of polygenic risk for obesity traits in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). American Society of Human Genetics, Washington, DC.

2022

2. Wilson E, Vedantam S, Fairhurst-Hunter Z, Marouli E, Arias J, Chittoor G, Berdt S, Winkler T, **Young KL**, Graff M, Liu C-T, Walters R, Lindgren C, Mohlke K, Justice A, GIANT Consortium.

GWAS meta-analysis of WHRadjBMI identifies differences across sexes and populations. American Society of Human Genetics, Los Angeles, CA.

2016

3. **Young KL**, Fisher V, Deng X, Liu C-T. CHARGE exome sequencing adiposity update. CHARGE meetings, Charlottesville, VA.
4. Fisher V, Deng X, **Young KL**, Tao R, Liu C-T. Whole exome sequence analysis refines understanding of height-associated loci. CHARGE meetings, Charlottesville, VA.
5. Turcot V, Highland HM, Schurmann C, Justice AE, **Young KL**, for the BBMRI, GOT2D, CHARGE, and GIANT Consortia. ExomeChip meta-analysis of 525,508 individuals identifies novel protein altering variants associated with body mass index (BMI). International Congress on Obesity, Vancouver, BC.
6. Karaderi T, Justice AE, **Young KL**, on behalf of the BBMRI, GOT2D, CHARGE, and GIANT Consortia. Exome chip meta-analysis identifies novel and low-frequency variants contributing to central body fat distribution. International Congress of Human Genetics, Kyoto, Japan.
7. Highland HM[^], Turcot V[^], Lu Y[^], Schurmann C[^], Justice AE[^], **Young KL[^]**, for the BBMRI, GOT2D, CHARGE, and GIANT Consortia. ExomeChip meta-analysis of 526,508 individuals from five ancestries identifies coding variation in *MC4R* and *KSR2* associated with body mass index. CHARGE meetings, Houston, TX.

2015

8. Highland HM[^], Turcot V[^], Lu Y[^], Schurmann C[^], Justice AE[^], **Young KL[^]**, for the BBMRI, GoT2D, CHARGE, and GIANT Consortia. ExomeChip meta-analysis of 526,508 individuals from five ancestries identifies novel coding variation associated with body mass index. American Society for Human Genetics, Baltimore, MD.

2014

9. Justice AE, Winkler T, Ngwa J, Czajkowski J, **Young KL**, on behalf of the GIANT Consortium. Accounting for smoking behavior in genome-wide analysis of obesity phenotypes: The Giant (genetic Investigation of Anthropometric Traits) Consortium. *Circulation* 129 (Suppl 1), A21-A21.

2013

10. Justice AE, Winkler TW, Ngwa J, **Young KL**, on behalf of the GIANT Consortium. Genome-wide joint meta-analysis for interaction between genetic variants and smoking on waist circumference. American Society of Human Genetics, Boston, MA.

2012

11. Graff M, North KE, Richardson AS, **Young KL**, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. Sedentary behavior may interact with some obesity genes, independent of physical activity, to influence BMI: Findings from a US, ethnically-diverse, adolescent cohort. The Obesity Society, San Antonio, TX.
12. Richardson AS, North KE, Graff M, **Young KL**, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. The joint role of moderate to vigorous physical activity and established obesity genetic variants with body mass index in a large and ethnically diverse cohort of US adolescents. The Obesity Society, San Antonio, TX.

13. **Young, KL.** The Basques in the genetic landscape of Europe. ISABS Conference in Forensic, Anthropologic, and Medical Genetics and Mayo Clinic Lectures in Translational Medicine, BOl, Croatia.
- 2004
14. Mosher, MJ, **K Melvin**, R Rubicz, M Zlojutro, MH Crawford. Evidence of sex-effect in the relationship of dietary sugar to variation in plasma lipids. Nordic Epidemiology Conference, Koupio, Finland.
- 2000
15. **Melvin, K**, R Rubicz, MH Crawford. Genetic Evidence for the Relationship Between Na-Dene and Yeniseian Speakers. Arctic Archaeology Conference, Lawrence, KS.

Conference Posters

2023

1. **Young KL**, Buchanan V*, Graff M, Krishnan M*, Highland H, Yu B, Avery C, Buyske S, Cai J, Daviglus M, Howard A, Isasi C, Kaplan R, Loos RFJ, Qi, Q, Rohde R, Rotter J, Van Horn L, Gordon-Larsen P, Boerwinkle E, North KE. Mendelian Randomization analysis of metabolites associated with severe obesity in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). American Society of Human Genetics, Washington, DC.
2. Kim D*, Polikowsky HG, Highland HM, Chen H-H, Wang Y, Graff M, **Young KL**, Yaser M*, Zhang X*, Zhu W, Sharma P, Berndt S, Arias JD, Gutierrez AD, Lee M, McCormick JB, Fisher-Hoch SP, Below JE, North KE. Genomic and transcriptomic influences on obesity-related traits in a high obesity-risk Hispanic/Latino population. American Society of Human Genetics, Washington, DC.
3. Yaser M*, Graff M, Chen H-H, Sharma P, Curran JE, Meikle PJ, Zhu W, Highland H, **Young KL**, Petty L, Gutierrez A, Lee M, McCormick J, Fisher-Hoch SP, Below JE, North KE. Two-sample Mendelian randomization reveal widespread lipidomic dysregulation underpinning severe obesity in self-identified Mexican Americans. American Society of Human Genetics, Washington, DC.
4. Seo J*, Liu H, **Young KL**, Zhang X*, Keku TO, Jones CD, North KE, Sandler B, Peery AF. Integrative analysis of the colonic transcriptome and colonoscopy-based diverticula enumeration unveils diverticulosis-specific causal genes. American Society of Human Genetics, Washington, DC.
5. Wilson E, Kim D*, Diez-Obrero, Vedantam S, Bartell E, Pozarickij A, Fairhurst-Hunter Z, Marouli E, **Young KL**, Graff M, Arias J, Chittoor G, Berndt S, Winkler T, Lindgren C, Loos RFJ, North KE, Walters R, Mohlke K, Justice A, for the GIANT Consortium. Leveraging a multi-population GWAS meta-analysis to prioritize genes underlying risk loci for central obesity: the Genetic Investigation of Anthropometric Traits (GIANT) Consortium. American Society of Human Genetics, Washington, DC.
6. **Young KL**, Buchanan VL*, Graff M, Krishnan M*, Highland HM, Yu B, Avery CL, Buyske S, Cai J, Daviglus M, Howard AG, Isasi CR, Kaplan R, Loos RJF, Qi Q, Rohde R, Rotter JI, Van Horn L, Gordon-Larsen P, Boerwinkle E, North KE. Mendelian Randomization of metabolites associated with severe obesity in the Hispanic Community Health Study / Study of Latinos, AHA Epi|Lifestyle, Boston, MA.

2022

7. Buchanan V*, Highland H, Yu B, Avery CL, Buyske S, Cai J, Daviglus M, Howard A, Isasi CR, Kaplan R, Loos RJF, Qi Q, Rohde R, Rotter JI, Van Horn L, Boerwinkle E, North KE, **Young KL**.

- Metabolomic signatures of body mass index in the Hispanic Community Health Study/ Study of Latinos (HCHS/SOL). American Society of Human Genetics, Los Angeles, CA.
8. Yaser, M*, Chen H-H, Polikowsky H, Petty L, Lee M, McCormick J, Fisher-Hoch S, Highland H, Graff M, Seo J, **Young KL**, North K, Below J. Characterization of gene expression profile and molecular pathways involved in type 2 diabetes among self-identified Hispanic American individuals. American Society of Human Genetics, Los Angeles, CA.
- 2021
9. Buchanan V*, Rohde R, Highland HM, Yu B, Isasi CR, Avery CL, Kaplan R, Rotter JI, Daviglus ML, Van Horn L, Cai J, Qi Q, Boerwinkle E, Loos RJJ, Buyske SG, Ferrier K, North KE, **Young KL**. Metabolomic signatures of waist circumference in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). American Society of Human Genetics Virtual Meeting.
- 2020
1. **Young KL**, Highland HM, Yu B, Lin B, Grove M, Boerwinkle E, North KE. Metabolic signatures of obesity in the Atherosclerosis Risk in Communities (ARIC) Study. American Society of Human Genetics, Virtual Conference.
 2. Buchanan V*, Rohde R, Highland HM, Yu B Isasi CR, Avery CL, Kaplan R, Rotter JI, Daviglus ML, Van Horn L, Cai J, Qi Q, Boerwinkle E, Loos RJJ, Buyske SG, Ferrier K, North KE, **Young KL**. Metabolic signatures of central obesity in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). American Society of Human Genetics, Virtual Conference.
 3. Zhang X*, Highland HM, Stanislawski MA, Rohde R, Lange LA, Matise TC, Buyske SG, Gignoux CR, **Young KL**, North KE, Mottl A. Association of metabolites with *APOL1* high risk genotypes: The Population Architecture using Genomics and Epidemiology (PAGE) study. American Society of Human Genetics, Virtual Conference.
 4. **Young KL**, Highland HM, Yu B, Grove-Gaona M, Boerwinkle E, North KE. Distinct metabolomic signatures of central obesity in the Atherosclerosis Risk in Communities (ARIC) Study. CHARGE, Houston, TX.
 5. **Young KL**, Smeester L, Fry R, Elovitz MA, Manuck T. Maternal genotype varies by delivery gestational age. Society for Maternal Fetal Medicine, Grapevine, TX.
- 2019
6. **Young KL**, Wojcik GL, Graff M, Nishimura KK, Tao R, Haessler J, Gignoux CR, Highland HM, Patel YM, Bien S, Suyske S, Haiman C, Kooperberg C, Le Marchand L, Loos RFJ, Matise TC, Peters U, Kenny EE, Carlson CS, North KE. The importance of diversity in genetic studies: Lessons learned from the Population Architecture using Genomics and Epidemiology (PAGE) Study. CHARGE, St. Louis, MO.
 7. **Young KL**, Highland HM, Yu B, Grove-Gaona M, Boerwinkle E, North KE. Distinct metabolomic signatures of central obesity in the Atherosclerosis Risk in Communities (ARIC) Study. American Society of Human Genetics, Houston, TX.
 8. Highland HM, Huckins LM, Wojcik GL, Hodonsky CJ, Baldassari AR, **Young KL**, Bien S, PAGE Consortium. Imputing gene-expression in the Population Architecture of Genetic Epidemiology (PAGE) diverse samples. American Society of Human Genetics, Houston, TX.
- 2018
9. **Young KL**, Avery C, Yu B, Grove-Gaona M, Gordon-Larsen P, Boerwinkle E, North KE. Predicting obesity change using metabolomics in the Atherosclerosis Risk in Communities (ARIC) Study. The Obesity Society, Nashville, TN.

10. **Young KL**, Highland HM, Yu B, Grove-Gaona M, Avery C, Gordon-Larsen P, Boerwinkle E, North KE. Metabolite-GWAS of obesity in the Atherosclerosis Risk in Communities (ARIC) Study. American Society of Human Genetics, San Diego, CA.
- 2017
11. **Young KL**, Park P, Cheng I, Li Y, Bien S, Graff M, Highland H, Tao R, Le Marchand L, Schurmann C, Stram D, North KE, Matise T, Buyske S, on behalf of the PAGE Study. MEGA analysis of alcohol consumption in diverse populations: The Population Architecture using Genomics and Epidemiology (PAGE) Study. American Society of Human Genetics, Orlando, FL.
 12. **Young, KL**, ME Cannon, S Vadlamudi, H Perrin, M Laakso, K Currin, KL Mohlke. Identifying genetic variants that alter gene regulation from GWAS of central obesity. Association for Clinical and Translational Science, Washington, DC.
 13. **Young KL**, Park P, Cheng I, Li Y, Bien S, Graff M, Highland H, Tao R, Le Marchand L, Schurmann C, Stram D, North KE, Matise T, Buyske S, on behalf of the PAGE Study. MEGA analysis of alcohol consumption. American Heart Association Epidemiology|Lifestyle Scientific Sessions, Portland, OR.
- 2016
14. **Young KL**, Justice AE, Karaderi T, on behalf of the BBMRI, GOT2D, CHARGE, and GIANT Consortia. Trans-ethnic meta-analysis of exome chip data reveals novel low-frequency variants contributing to central adiposity. *Circulation* 133 (Suppl 1).
- 2015
15. **Young KL**, Justice AE, Karaderi T, on behalf of the BBMRI, GOT2D, CHARGE and GIANT Consortia. Exome chip meta-analysis identifies novel low-frequency variants contributing to central body fat distribution. American Society for Human Genetics, Baltimore, MD.
 16. **Young KL**, Justice AE, Highland HM, on behalf of GoT2D, BBMRI, CHARGE, and GIANT. Novel loci and low-frequency variants contributing to central body fat: Exome analysis in a multiethnic population. American Association of Physical Anthropologists, St. Louis, MO.
- 2014
17. **Young KL**, Fisher V, Justice A, on behalf of the GIANT Consortium. Influence of Gene-by-Smoking Interaction on Obesity Related Traits: The Giant (Genetic Investigation of ANthropometric Traits) Consortium. The Obesity Society, Boston, MA.
 18. **Young KL**, Hadley D, Justice A, on behalf of the GIANT Consortium. Influence of smoking and sex on genetic associations of body fat distribution: The Giant (Genetic Investigation of ANthropometric Traits) Consortium. *Circulation* 129 (Suppl 1), A22-A22.
- 2013
19. **Young KL**, Justice AE, Demerath EW, Kao WHL, Boerwinkle E, North KE, Monda KL. Influence of physical activity on body mass index in relation to well-replicated obesity loci in African American adults: The ARIC Study. American Society of Human Genetics, Boston, MA.
 20. **Young KL**, Justice AE, Kao WHL, Demerath EW, Boerwinkle E, North KE, Monda KL. Modification by physical activity of body mass index in relation to well-replicated obesity loci: The ARIC Study. American Heart Association Epidemiology and Prevention | Nutrition, Physical Activity and Metabolism Scientific Sessions.

2012

21. **Young KL**, Graff M, North KE, Richardson AS, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. Influence of SNPxSNP interaction on BMI in European American adolescents: Findings from the National Longitudinal Study of Adolescent Health. The American Society of Human Genetics, San Francisco, CA.
22. **Young KL**, Graff M, North KE, Richardson AS, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. Interaction of smoking and genotype on adolescent BMI: Findings from the National Longitudinal Study of Adolescent Health. The Obesity Society, San Antonio.

2011

23. **Young K**, Apraiz AG, Sun G, Deka R, Crawford MH. Paternal genetic history of the Basque population of Spain. American Association of Physical Anthropologists, Minneapolis, MN. 2010
24. **Young, K**, Apraiz AG, Devor R, Sun G, Deka R, Crawford MH. The Basques in the genetic landscape of Europe. Human Biology Association, Albuquerque, NM.
25. **Young K**, Relethford J, Crawford MH. The consequence of population loss: Secular trend in height in post-Famine Ireland. International Conference on Human Migration, Lawrence, Kansas.

2009

26. **Young K**, Relethford J, Crawford MH. Social stratification of height in post-famine Ireland (1860-1910). American Association of Physical Anthropologists, Chicago, IL.

2007

27. **Young K**, Apraiz AG, Devor R, Rubicz R, Crawford MH. Basque Origins: Evidence from mtDNA. Human Biology Association, Philadelphia, PA.

2005

28. **Melvin, K**, Apraiz AG, Sun G, Rubicz R, Deka R, Crawford MH. STR variation in four provinces of the Basque country. American Association of Physical Anthropologists, Milwaukee, WI.

2001

29. **Melvin, K**, Livshits G, Crawford MH. Genetic diversity among the Chuvash using Randomly Amplified Polymorphic DNA (RAPD) markers. Presented at Human Biology Association, Kansas, City, MO.

CAMPUS PRESENTATIONS

- 2021 Biological anthropology perspectives on genomics and race, Genetic Epidemiology Seminar, University of North Carolina at Chapel Hill.
- 2016 Interaction of smoking and obesity susceptibility loci on adolescent BMI: The National Longitudinal Study of Adolescent to Adult Health. Carolina Population Center, University of North Carolina at Chapel Hill.
- 2015 Ethical Issues in Genetic Screening: Informed Consent. Carolina Population Center Interdisciplinary Workshop, University of North Carolina at Chapel Hill.
- 2014 Influence of Gene-by-Smoking Interaction on Obesity Related Traits: The Giant (Genetic Investigation of ANthropometric Traits) Consortium. Carolina Population Center Interdisciplinary Workshop, University of North Carolina at Chapel Hill.

- 2014 Ethical Issues in Genetic Screening. UNC Cardiovascular Disease Seminar, University of North Carolina at Chapel Hill.
- 2013 Protecting personally identifiable information in genetic studies. Genetic Epidemiology Seminar, University of North Carolina at Chapel Hill.

TEACHING EXPERIENCE

University of North Carolina at Chapel Hill

Genetic Epidemiology: Methods and Applications, Department of Epidemiology (Professor: Fall 2024).

Methods and Measures for Public Health Practice, Department of Epidemiology (Section Lead: Fall 2018-present)

Understanding Public Health Issues, School of Public Health (Section Lead: Fall 2018, Spring 2019)

Functional Annotation of Genetic Data, Department of Epidemiology (Co-instructor: Spring 2016, Spring 2020)

Human Genetics and Evolution, Department of Anthropology (Professor: Fall 2013)

University of Kansas

Fundamentals of Physical Anthropology, Continuing Education (Instructor: 2001-2010)

Fundamental of Physical Anthropology, Department of Anthropology (Instructor: Summer 2001-2003, 2006)

Fundamental of Physical Anthropology, Department of Anthropology (Teaching Assistant: 1998-2000)

Introduction to Human Nutrition, Department of Anthropology (Teaching Assistant: 2001-2002)

PROFESSIONAL SERVICE

Peer Reviewer

Genetic Epidemiology

American Journal of Human Genetics

Diabetes Care

Diabetes

International Journal of Obesity

Addiction Biology

Lancet Diabetes and Endocrinology

Hypertension

Addiction

PLoS ONE

Injury Epidemiology

Nature: Scientific Reports

Pediatric Obesity

Health & Place

Human Biology

Abstract Reviewer

American Society of Human Genetics

American Heart Association, Scientific Sessions

Pacific Symposium on Biocomputing

Professional Leadership

2014-2019 Outreach Committee, American Association of Anthropological Genetics
2009-2011 Election Committee, American Association of Anthropological Genetics

UNIVERSITY SERVICE

2020-2024 Reviewer, Basic Science Study Section, Carolina Medical Student Research Program (CMSRP)
2019- Faculty Council, Nontenured Faculty Representative for the UNC Gillings School of Global Public Health
2015 UNC Undergraduate Summer Research Symposium Judge

DEPARTMENTAL SERVICE

Doctoral Student Mentoring

2025 Nichols, Jayna. Concordance of proteomics across platforms. University of North Carolina at Chapel Hill, Department of Genetics. Doctoral Committee Member.
2024 Wang, Jianqiao. Computationally efficient methods for semiparametric analysis of big data. University of North Carolina at Chapel Hill, Department of Biostatistics. Doctoral Committee Member.
2019 Buchanan, Victoria. Metabolic signatures of severe obesity in the Hispanic Community Health Study/Study of Latinos. University of North Carolina at Chapel Hill, Department of Epidemiology. Doctoral Committee Member.
2017 Phillips, Delisa. Differential methylation of immunological genes: Epigenetics of Crohn's Disease. University of Kansas, Department of Anthropology. Doctoral Committee Member.
2017 Beaty, Kristine G. A genetic history of the Garifuna: Forced migration, admixture, and population expansion. University of Kansas, Department of Anthropology. Doctoral Committee Member.
2016 Gondalia, Rahul. Ambient particulate matter air pollution, heart rate variability, white blood cell traits, and DNA methylation. University of North Carolina at Chapel Hill, Department of Epidemiology. Doctoral Interdepartmental Review Committee Member.
2011 Justice, Anne E. Genetic structure of the Maya in Guatemala: Perspectives on the population history of the Maya using mtDNA and Y-chromosome markers. University of Kansas, Department of Anthropology. Doctoral Committee Member.

Applied Epidemiology Master's Student Practicum Advising and Faculty Mentoring (*graduated)

2025

1. Diunugala, Sithara. Practicum: Technical memo and data analysis to develop county-level resource maps for NC Veterans. Organization: Building Veteran-Healthy Communities Project, North Carolina Institute for Public Health, Chapel Hill, NC.
2. Niemi de Paiva, Sarah. Practicum: Vital events census and updated mortality register. Organization: Kisii Konya Oroiboro Project, Kisii County, Kenya.
3. Park, Christina. Practicum: Maternal health and mental health information webpages and barriers to intervention qualitative analysis. Organization: Learning2Thrive Program, Chapel Hill, NC.

4. Tong, Alvin. Practicum: Lung cancer screening in rural communities and evaluation of the Direct Primary Care model for rural health. Organization: Healthcare Quality Improvement Platform, Leawood, KS.
5. Valencia, Amy. Practicum: Identifying inequities and evidence-based prevention strategies for surgical site infections through data analysis of post-infection patient events. Organization: Stanford University School of Medicine, Palo Alto, CA.
6. McIntyre, Conner. Practicum: Development and dissemination of public health messaging for parents of NC children. Organization: Social Cascade, Raleigh, NC.
7. Aycock, Chase. Practicum: Sleep health disparities in the military population. Organization: Department of Public Health Services, School of Medicine, University of Virginia, Charlottesville, VA.
8. Beam, Stephen. Practicum: Improving HPV vaccination and cervical cancer screening. Organization: Chambers County Community Health and Wellness Center, LaFayette, AL.
9. Chivu, Julia. Practicum: The impact of stigma on lung cancer screening and alternative healthcare models to direct primary care in rural populations. Organization: Healthcare Quality Improvement Platform (HQUIP).
10. Maness, Leah. Practicum: . Organization: .
11. Mensah, Wilhelmina. Practicum: Community health education and digital health education toolkit for parents and caregivers of young children. Organization: Social Cascade, Raleigh, NC.
12. Pepper, Emily. Practicum: Improving health equity for sickle-cell disease patients in Uganda. Organization: Duke University Global Health Institute, Durham, NC and Kalangala Health Center IV, Kalangala, Uganda.

2024

13. Abano-Santana, Alyssa.* Practicum: Data analysis and educational materials on STI trends and animals bites and rabies awareness at MCB Camp Lejeune. Organization: Public Health Center – Naval Medical Center Camp Lejeune, Camp Lejeune, NC.
14. McLarty, Mary Krysten.* Practicum: Health data dashboard and patient database architecture/logic model for KCHIV community engaged sickle cell disease research. Organization: Duke Global Health Institute, Durham, NC and Kalangala Health Center IV, Kalangala, Uganda.
15. Pan, Amanda.* Practicum: Risk factors contributing to isolation of non-tuberculosis mycobacterium from respiratory specimens of patients with TB. Organization: NC Department of Health and Human Services, Raleigh, NC.
16. Manuel, Fadi.* Practicum: Bridging gaps in health equity: State pharmacy laws report and health equity framework. Organization: Durman Services, LLC, Los Angeles, CA.
17. James, Madison.* Practicum: Haitian Maternal health outcomes dashboard and presentation. Organization: Partners in Health, Boston, MA.
18. Francis, Rachel.* Practicum: Resource list and social media awareness campaign for zero waste economies. Organization: Circular Triangle, Raleigh, NC.
19. Fonder, Alex. Practicum: Analysis and presentation of Kaposi Sarcoma clinical trial data. Organization: UNC Project Malawi, Lilongwe, Malawi.
20. Luner, Meredith.* Practicum: Validation of definitions for mental health surveillance and analysis of depression in NC. Organization: Carolina Center for Health Informatics, Chapel Hill, NC.
21. Desouky, Adam.* Practicum: Risk modeling of HIV associated neurocognitive disorders and effects of Covid-19 on patients with neurological conditions. Organization: HIV Associated Neurocognitive Disorders Research Team, Lima, Peru.

22. Cornett, Olivia.* Practicum: Surveillance of STIs in NC using NC-DETECT and NC-EDSS data. Organization: NC Division of Public Health HIV/STD/Hepatitis Surveillance Unit, Raleigh, NC.
23. Butcher, Dalton.* Practicum: Analysis of nosocomial respiratory infection data and feasibility assessment of healthcare worker infectious disease surveillance program. Organization: UNC Hospital Department of Epidemiology/Infection Control, Chapel Hill, NC.
24. Burrell, Emily.* Practicum: Evaluation survey and adaptable lesson plan template for substance abuse intensive outpatient program. Organization: Coastal Horizons Center, Wilmington, NC.
25. Rodriguez-Quintero, Jorge.* Practicum: Addressing health equity gaps in lung cancer screening, data analysis and infographic. Organization: Montefiore Medical Center, Bronx, NY.
26. Jones, Laura.* Practicum: Laboratory testing practices data analysis, assessment of lab data sources for the CDC National Syndromic Surveillance Program. Organization: Massachusetts Department of Health, Boston, MA.
27. Feuk, Meghan.* Practicum: Literature review and needs assessment survey for development of a Community of Practice for the Water and Sanitation for Health Facility Improvement Tool. Organization: UNC Water Institute, Chapel Hill, NC.
28. Farah, Tala.* Practicum: Comprehensive resource guide of youth-serving organizations in eastern NC. Literature reviews on mental health and substance use primary prevention, and intervention strategies for drug use prevention. Organization: NCDHHS, Division of Mental Health/Developmental Disabilities/Substance Use Services, Wilmington, NC.
29. Cox, Melissa.* Practicum: Bacterial isolates from companion animal specimens data analysis and preliminary findings. Organization: NC State University College of Veterinary Medicine (Clinical Microbiology and Molecular Diagnostics Laboratory), Raleigh, NC.
30. Collier, Loren.* Practicum: Record of stakeholder interviews and content analysis, quality assessment of DoD providers in operational environments. Organization: Government Accountability Office (Health Care team), Washington, DC.
31. Boiman, Adam.* Practicum: PAPR best practices education module and hand hygiene compliance program for health care workers. Organization: WellMed Occupational Health Services Department, San Antonio, TX.
32. Soudavari, Romina.* Practicum: Improving health of rural patients with chronic pain, program assessment of implementation of Integrative Medical Group Visits. Organization: UNC SoM Department of Physical Medicine and Rehabilitation Program on Integrative Medicine, Chapel Hill, NC.

2023

33. Kelly, Elizabeth.* Practicum: Asset mapping and assessment of author circle participant progress. Organization: ConTextos, Chicago, IL.
34. Cannon-Stewart, Presley.* Practicum: Thematic analysis of semi-structured interviews with bioresearch monitoring investigators. Organization: Government Accountability Office (Health Care team), Washington, DC.
35. Hughes, Edward.* Practicum: Child safety seat database cleaning and coding. Impact of COVID on public health programs literature review. Organization: Safe Kids Worldwide, Silver Spring, MD.
36. Bushnan, Somil.* Practicum: Oklahoma American Indian Health Disparities, Engaging Tribal Communities. Langston University, Langston, OK.

37. Thomas, Celia.* Practicum: Grant proposal development. Organization: Meals on Wheels of Central Maryland, Baltimore, MD.
38. Lalla, Amber.* Practicum: Birth outcomes data analysis and program evaluation dashboard. Organization: Georgia Health Policy Center, Atlanta, GA.
39. Nelson, Kiley.* Practicum: Evaluation of impacts of social determinants of health on patient outcomes after CPR events. Organization: Mayo Clinic Hospital, Phoenix, AZ.
40. Summers, Tyana.* Practicum: Fall 2023 Conference Plan, Communities of Practice and Partners of Practice Session Development, Qualitative Analysis of Key Informant Interviews for San Francisco Health Improvement Partnership. Organization: R.A.C.E. for Equity, Durham, NC.
41. Whalen, Patricia.* Practicum: Child safety seat database and quality improvement plan. Organization: Safe Kids Worldwide, Silver Spring, MD.
42. Haas, Emily.* Practicum: Market Assessment of Military Health Programs and Approaches and Program Design for Military Trauma Recovery. Organization: Learning2Thrive, Chapel Hill, NC.

2022

43. Cuevas, Andrea.* Practicum: Data analysis and poster presentation of tick-borne disease in NC. Organization: Division of Infectious Diseases, UNC School of Medicine, Chapel Hill, NC.
44. Hadgu, Semhal.* Practicum: Mass drug administration database and landscape analysis. Organization: The Carter Center Trachoma Control Program, Atlanta, GA.

Master's Student Mentoring

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| 2016 | Reussner, Anna K. Physical education models and undergraduate student exercise motivation in the United States and Germany. University of North Carolina at Chapel Hill. Master of Arts in Global Studies. Thesis Committee Member. |
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COMMUNITY OUTREACH

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| 2023 | High school student mentoring, Ameerah Lawal, Jordan High School, Fulshear, Texas. |
| 2022 | Skype a Scientist – Guest Lecturer (Huntsville High School, Huntsville, Ontario, Canada) |
| 2021 | Skype a Scientist – Guest Lecturer (Tempe High School, Tempe, AZ; Midwood High School, Brooklyn, NY) |
| 2019-2022 | Letters to a Pre-scientist – Scientist Penpal (Euclid, OH; Chicago, IL; New Orleans, LA) |
| 2018 | Skype a Scientist – Guest Lecturer (Hawthorne High School, Hawthorne, CA) |
| 2016 | UNC Project Uplift Ambassador |
| 2014-2019 | DNA Day Ambassador, NC DNA Day (Apex, Chapel Hill, Durham, Eden and Gibsonville, NC) |
| 2014-2022 | American Society for Human Genetics DNA Day International Scholarship Essay Judge |

PROFESSIONAL MEMBERSHIPS

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| 2012- | American Society of Human Genetics |
| 2012 | The Obesity Society |
| 2012- | American Heart Association |

2009	Human Biology Association
2001	American Association of Physical Anthropologists
2000	American Association of Anthropological Genetics