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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, <i>Summa Cum Laude</i> , 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/former mentees

2025

1. Landman JM, Highland HM, Perry AS, Howard AG, Sheng Q, Lorenz A, Palmer AB, Zhao S, Zhu W, Zhang X, Buchanan VL*, Frankel EG, Roshani R, Scartozzi A, Farber-Eger EH, Anwar MY*, Sprinkles JK, Breidenbach A, Wang TC, Ballard CA, Naylor M, Tamaroff J, Gutierrez A, Petty LE, Petty AS, Lippi B, Fernandez-Rhodes L, Chen HH, Krishnan M, Graff M, Meyer KA, Lee M, **Young KL**, Wells Q, Freedman JE, Gamazon ER, McCormick JB, Fisher-Hoch SP, Gordon-Larsen P, Below JE, North KE, Shah RV. Proteomic signatures of pediatric cardiovascular and cardiometabolic traits demonstrate long-term modifiable drivers of adult disease. *Under review at Nature Metabolism*.
2. 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, Kardia 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*.
3. 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*.
4. 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, Hoogetveen 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 Communications*.
5. Zhang M, Brown MR, Bentley AR, Winkler TW, Noordam R, Nagarajan P, Guo B, Lee S, Schwander K, Wang W, Westerman K, O'Connell JR, Ammous F, Argoty-Pantoja AD, Bartz TM, Batini C, Boua PR, Cordell HJ, Díez-Ahijado L, Dimitrov L, Do AN, Du J, Feitosa MF, Giri A, Giulianini F, Gudmundsdottir V, Guo X, Harris SE, Hasbani NR, Herold JM, Hikino K, Hofer E, Hsu FC, Jackson AU, Kho M, Kraja AT, Lyytikäinen LP, Meirhaeghe A, Muntaner M, Nakatochi M, Nardone GG, Nutile T, Palmer ND, Pecori A, Rao VS, Rauramaa R, Sanghvi MM, Santin A, Shen B, Stringham HM, Takeuchi F, Tan YA, Tang J, Thériault S, Trofimova O, Trompet S, Most PJ van der, Wang YX, Wang Z, Wang Y, Ware EB, Weiss S, Wickremasinghe AR, Yu C, Zhu W, Ansari MAY, Anugu P, Banas B, Barr RG, Basnet TB, Boerwinkle E, Böger CA, Breyer M, Broeckel U, Bryant L, Cade B, Camarda S, Cennamo P, Checkley W, Chee ML, Chen G, Coley K, Collins SD, Borst MH de, Fuentes L de las, Deary IJ, Dupont CT, Enzinger C, Faquih T, Faul JD, Silva LF, Gauthier V, Gepner AD, Gorski M, Grabe HJ, Graff M, Gu CC, He J, Heikkinen S, Hidalgo B, Highland HM, Hixson JE, Hood MM, Hunt SC, Irvin MR, Isono M, Kähönen M, Kardia SLR, Karvonen-Gutierrez CA, Kasturiratne A, Katsuya T, Kaufman JD, Koistinen HA, Komulainen P, Krämer BK, Launer LJ, Leonard H, Levy D, Study LC, Liu J, Marques-Vidal P, Martinez-Perez A, Matsuda K, McNeil JJ, Milaneschi Y, Miranda JJ, Morrison JL, Nalls M, Ng MC, Nolte IM, Norris JM, Oravilahti A, Patki A, Petty LE, Peyser PA, Pianigiani G, Raffield LM, Raitakari OT, Ramsay M, Rice KM, Ridker PM, Risch L, Risch M, Ruggiero D, Ruiz-Narvaez EA, Russ TC, Sabanayagam C, Vaitinadin NS, Schmidt R, Scott LJ, Singh S, Sitlani CM, Smit RAJ, Smith JA, Sun Q, Tai ES, Taylor KD, Tesolin P, Tham YC, Project TBJ, Tinashe C, Dam RM van, Vaucher J, Völker U, Wang C, Wilson OD, Wong TY, Xu J, Yamamoto K, Yao J, Yokota M,

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6. Cai Y, Wang Z, Kim M, Smit R, Graham S, Guo B, Kim D*, Lundin J, Haessler J, Guarischi-Sousa R, Hilliard A, Pozdeyev N, Lin M, Tao R*, Zhu W, Sonehara K, Meyer M, Wang Y, Anwar M*, Albrechtsen A, Assimes T, Below J, Bjerregaard P, Clarke S, Cox N, David L, Du S, Fornage M, Gignoux C, Gordon-Larsen P, Hansen T, Howard AG, Irvin HR, Iyer K, Kanai M, Lange E, Lange L, Lankester J, Moltke I, Okada Y, Pattee J, Rasmussen-Torvik L, Shuey M, Straub P, Tsao P, Wang H, Yousri N, Buyske S, **Young KL**, Darst B, Highland H, Peloso G, Willer C, North KE, Kooperberg C, Loos R, Peters U, Graff M. Lipid polygenic risk score performance across populations: From demographics to clinical implication. *Under review at Circulation: Genomic and Precision Medicine*.
 7. 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 PWF, Peyser PA, Munroe PB, Vries PS de, Gauderman WJ, Sun YV, Chen H, Miller CL, Winkler TW, Rao DC, Redline S, Heemst D van. Genome-Wide Gene-Sleep Interaction Study Identifies Novel Lipid Loci in 732,564 Participants. *Atherosclerosis*. 2025;412:120603.
 8. 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.
 9. 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, Arbeeve L, Bartell E, Bhaskar S, Bielak

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10. 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. PMID: PMC12235720.
 11. 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, Lehtimäki T, Oldehinkel AJ, Preisig M, Wang YX, Zheng W, Evans MK, Province M,

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- E, Böger CA, Bonnycastle LL, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Burt AA, Butterworth AS, Carey DJ, Caulfield MJ, Chambers JC, Chasman DI, Chen YDI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Galbany JC, Cox AJ, Cuellar-Partida G, Danesh J, Davies G, Bakker PIW de, Borst GJ de, Denus S de, Groot MCH de, Mutsert R de, Deary IJ, Dedoussis G, Demerath EW, Hollander AI den, Dennis JG, Angelantonio ED, Drenos F, Du M, Dunning AM, Easton DF, Ebeling T, Edwards TL, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Faul JD, Feitosa MF, Feng S, Ferrannini E, Ferrario MM, Ferrieres J, Florez JC, Ford I, Fornage M, Franks PW, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Giedraitis V, Giri A, Girotto G, Gordon SD, Gordon-Larsen P, Gorski M, Grarup N, Grove ML, Gudnason V, Gustafsson S, Hansen T, Harris KM, Harris TB, Hattersley AT, Hayward C, He L, Heid IM, Heikkilä K, Helgeland Ø, Hernesniemi J, Hewitt AW, Hocking LJ, Hollensted M, Holmen OL, Hovingh GK, Howson JMM, Hoyng CB, Huang PL, Hveem K, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jhun MA, Jia Y, Jiang X, Johansson S, Jørgensen ME, Jørgensen T, Jousilahti P, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, Kardia SLR, Karpe F, Kee F, Keeman R, Kiemeny LA, Kitajima H, Kluivers KB, Kocher T, Komulainen P, Kontto J, Kooner JS, Kooperberg C, Kovacs P, Kriebel J, Kuivaniemi H, Küry S, Kuusisto J, Bianca ML, Laakso M, Lakka TA, Lange EM, Lange LA, Langefeld CD, Langenberg C, Larson EB, Lee IT, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu Y, Liu Y, Lophatananon A, Luan J, Lubitz SA, Lyytikäinen LP, Mackey DA, Madden PAF, Manning AK, Männistö S, Marenne G, Marten J, Martin NG, Mazul AL, Meidtner K, Metspalu A, Mitchell P, Mohlke KL, Mook-Kanamori DO, Morgan A, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Nauck M, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Ntalla I, O'Connel JR, Oksa H, Loohuis LMO, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Person TN, Pirie A, Polasek O, Posthuma D, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Reiner AP, Renström F, Ridker PM, Rioux JD, Robertson N, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sandow K, Sapkota Y, Sattar N, Schmidt MK, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah S, Sim X, Sivapalaratnam S, Small KS, Smith AV, Smith JA, Southam L, Spector TD, Speliotes EK, Starr JM, Steinthorsdottir V, Stringham HM, Stumvoll M, Surendran P, Hart LM 't, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Ulivi S, Laan SW van der, Leij ARVD, Duijn CM van, Schoor NM van, Setten J van, Varbo A, Varga TV, Varma R, Edwards DRV, Vermeulen SH, Vestergaard H, Vitart V, Vogt TF, Vozzi D, Walker M, Wang F, Wang CA, Wang S, Wang Y, Wareham NJ, Warren HR, Wessel J, Willems SM, Wilson JG, Witte DR, Woods MO, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhao W, Zheng H, Zhou W, Consortium EI, Consortium CE, Consortium E, Consortium TG, Consortium GG, Consortium GLG, Consortium R, Investigators M, Rotter JI, Boehnke M, Kathiresan S, McCarthy MI, Willer CJ, Stefansson K, Borecki IB, Liu DJ, North KE, Heard-Costa NL, Pers TH, Lindgren CM, Oxvig C, Kutalik Z, Rivadeneira F, Loos RJF, Frayling TM, Hirschhorn JN, Deloukas P, Lettre G. Rare and low-frequency coding variants alter human adult height. *Nature* 542(7640):186–190. PMID: PMC5302847.
64. Graff M, North KE, Richardson AS, **Young KL**, Mazul AL, Highland HM, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. BMI loci and longitudinal BMI from adolescence to young adulthood in an ethnically diverse cohort. *Int J Obes.* 41(5):759–768. PMID: PMC5413409.

2016

65. Graff M, Richardson AS, **Young KL**, Mazul AL, Highland H, North KE, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. The interaction between physical activity and obesity gene variants in association with BMI: Does the obesogenic environment matter? *Health and Place* 42:159–165. PMID: PMC5116401.
66. Fernández-Rhodes L, Hodonsky CJ, Graff M, Love SAM, Howard AG, Seyerle AA, Avery CL, Chittoor G, Franceschini N, Voruganti VS, **Young KL**, O'Connell JR, North KE, Justice AE. Comparison of 2 models for gene–environment interactions: an example of simulated gene–medication interactions on systolic blood pressure in family-based data. *BMC Proceedings* 10(Suppl 7):371–377. PMID: PMC5133512.
67. Justice AE[^], Howard AG[^], Chittoor G[^], Fernandez-Rhodes L, Graff M, Voruganti VS, Diao G, Love SAM, Franceschini N, O'Connell JR, Avery CL, **Young KL**, North KE. Genome-wide association of trajectories of systolic blood pressure change. *BMC Proceedings* 10(Suppl 7):56. PMID: PMC5133524.
68. Lange LA, Graff M, Lange EM, **Young KL**, Richardson AS, Mohlke KL, North KE, Harris KM, Gordon-Larsen P. Evidence for association between *SH2B1* gene variants and glycated hemoglobin in nondiabetic European American young adults: The Add Health Study. *Ann Hum Genet.* 80(5):294–305. PMID: PMC5453181.
69. **Young KL**, Graff M, North KE, Richardson AS, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. Interaction of smoking and obesity susceptibility loci on adolescent BMI: The National Longitudinal Study of Adolescent to Adult Health. *BMC Genetics* 16(1):131. PMID: PMC4634717.
70. Conomos MP, Laurie CA, Stilp AM, Gogarten SM, McHugh CP, Nelson SC, Sofer T, Fernández-Rhodes L, Justice AE, Graff M, **Young KL**, Seyerle AA, Avery CL, Taylor KD, Rotter JI, Talavera GA, Daviglus ML, Wassertheil-Smoller S, Schneiderman N, Heiss G, Kaplan RC, Franceschini N, Reiner AP, Shaffer JR, Barr RG, Kerr KF, Browning SR, Browning BL, Weir BS, Avilés-Santa ML, Papanicolaou GJ, Lumley T, Szpiro AA, North KE, Rice K, Thornton TA, Laurie CC. Genetic diversity and association studies in US Hispanic/Latino populations: Applications in the Hispanic Community Health Study/Study of Latinos. *Am J Hum Genetics* 98(1):165–184. PMID: PMC4716704.

2015

71. **Young KL**, Graff M, North KE, Richardson AS, Bradfield JP, Grant SFA, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. Influence of SNP*SNP interaction on BMI in European American adolescents: Findings from the National Longitudinal Study of Adolescent Health. *Pediatric Obesity* 11(2):95–101. PMID: PMC4615264.
72. Hester CM, Born WK, Yeh HW, **Young KL**, James AS, Daley CM, Greiner KA. Decisional stage distribution for colorectal cancer screening among diverse, low-income study participants. *Heal Educ Res.* 30(3):400–411. PMID: PMC4434950.

2014

73. Ma Y, Tucker KL, Smith CE, Lee YC, Huang T, Richardson K, Parnell LD, Lai CQ, **Young KL**, Justice AE, Shao Y, North KE, Ordovás JM. Lipoprotein lipase variants interact with polyunsaturated fatty acids for obesity traits in women: Replication in two populations. *Nutr, Metab Cardiovasc Dis.* 24(12):1323–1329. PMID: PMC4356006.
74. Liu CT[^], **Young KL**[^], Brody JA, Olden M, Wojczynski MK, Heard-Costa N, Li G, Morrison AC, Muzny D, Gibbs RA, Reid JG, Shao Y, Zhou Y, Boerwinkle E, Heiss G, Wagenknecht L, McKnight B, Borecki IB, Fox CS, North KE, Cupples LA. Sequence variation in *TMEM18* in association with body mass index. *Circ: Cardiovasc Genet.* 7(3):344–349. PMID: PMC4135723.

2013

75. Graff M, North KE, Richardson AS, **Young KL**, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. Screen time behaviors may interact with obesity genes, independent of physical activity, to influence adolescent BMI in an ethnically diverse cohort. *Pediatric Obesity* 8(6):e74–e79. PMCID: PMC3838440.
76. Richardson AS, North KE, Graff M, **Young KL**, Mohlke KL, Lange LA, Lange EM, Harris KM, Gordon-Larsen P. Moderate to vigorous physical activity interactions with genetic variants and body mass index in a large US ethnically diverse cohort. *Pediatr Obes*. 2013 Mar 25;9(2):e35–e46. PMCID: PMC3707946.
77. Lumpkins C, Cupertino P, **Young K**, Daley C, Yeh H, Greiner K. Racial/ethnic variations in colorectal cancer screening self-efficacy, fatalism and risk perception in a safety-net clinic population: implications for tailored interventions. *J Community Med Heal Educ*. 03(01). PMCID: PMC3826433.

2012

78. Graff M, North KE, Mohlke KL, Lange LA, Luo J, Harris KM, **Young KL**, Richardson AS, Lange EM, Gordon-Larsen P. Estimation of genetic effects on BMI during adolescence in an ethnically diverse cohort: The National Longitudinal Study of Adolescent Health. *Nutr Diabetes*. 2012 Sep;2(9):e47–e47. PMCID: PMC3461356.
79. Quick BW*, Hester CM, **Young KL**, Greiner KA. Self-Reported Barriers to Colorectal Cancer Screening in a Racially Diverse, Low-Income Study Population. *J Community Heal*. 38(2):285–292. PMCID: PMC3560309.
80. Filippi MK, **Young KL**, Nazir N, Williams C, Brown T, Choi WS, Greiner KA, Daley CM. American Indian/Alaska Native Willingness to Provide Biological Samples for Research Purposes. *J Community Heal*. 37(3):701–705. PMCID: PMC3302926.

2011

81. **Young KL**, Sun G, Deka R, Crawford MH. Paternal Genetic History of the Basque Population of Spain. *Hum Biol*. 83(4):455–475. PMID: 21846204. No NIH funding.
82. **Young KL**, Sun G, Deka R, Crawford MH. Autosomal short tandem repeat genetic variation of the Basques in Spain. *Croat Méd J*. 52(3):372–383. PMCID: PMC3118713.

2010

83. Rubicz R, Zlojutro M, Sun G, Spitsyn V, Deka R, **Young KL**, Crawford MH. Genetic Architecture of a Small, Recently Aggregated Aleut Population: Bering Island, Russia. *Hum Biol*. 82(5/6):719–736. PMID: 21417891. No NIH funding.

2008

84. **Young K**, Relethford JH, Crawford MH. Postfamine stature and socioeconomic status in Ireland. *Am J Hum Biol*. 20(6):726–731. PMID: 18720402. No NIH funding.

2006

85. Lefevre-Witier P, Aireche H, Benabadji M, Darlu P, **Melvin K**, Sevin A, Crawford MH. Genetic structure of Algerian populations. *Am J Hum Biol*. 18(4):492–501. PMID: 16788894.

2004

86. Arnaiz-Villena A, Martinez-Laso J, Moscoso J, Livshits G, Zamora J, Gomez-Casado E, Silvera-Redondo C, **Melvin K**, Crawford MH. HLA-A, -B, -DQB1, and -DRB1 alleles in a Chuvash population from Russia. *Hum Immun.* 65 (9-10):1061.
- 2003
87. Zamora J, Livshits G, Moscoso J, Martinez-Laso J, Arnaiz-Villena A, Silvera-Redondo C, **Melvin K**, Gomez-Casado E, Crawford MH. HLA genes in the Chuvashian population from European Russia: Admixture of Central European and Mediterranean populations. *Hum Biol.* 75(3):375–392. PMID: 14527201.
- 2002
88. Rubicz R, **Melvin KL**, Crawford MH. Genetic evidence for the phylogenetic relationship between Na-Dene and Yeniseian speakers. *Hum Biol.* 2002;74(6):743–760. PMID: 12617487.

Books

- 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