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KATIE A. MEYER

Work Address

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EDUCATION

2002 ScD, Epidemiology, minor in Biostatistics, *Harvard School of Public Health*, Boston, MA.
1997 MPH, Epidemiology, *University of Minnesota, School of Public Health*, Minneapolis, MN.
1993 BA, Art History, core in Biology, *Macalester College*, Saint Paul, MN.

PROFESSIONAL EXPERIENCE

2017- Assistant Professor, Department of Nutrition
University of North Carolina at Chapel Hill, Chapel Hill, NC.
2012-2017 Research Assistant Professor, Department of Nutrition
University of North Carolina at Chapel Hill, Chapel Hill, NC.
2016 Faculty Fellow, Nutrition Research Institute
University of North Carolina at Chapel Hill, Kannapolis, NC.
2015 Visiting Faculty, Nutrition Research Institute
University of North Carolina at Chapel Hill, Kannapolis, NC.
2012 Research Associate, Carolina Population Center
University of North Carolina at Chapel Hill, Chapel Hill, NC.
2009-2012 Post-Doctoral Research Fellow, Division of Epidemiology and Community Health
University of Minnesota School of Public Health, Minneapolis, MN.
2002-2009 Chronic Disease Epidemiologist, Division of Chronic Disease,
Maine Center for Disease Control and Prevention, Augusta, ME.
University of Southern Maine, Portland, ME.
2001-2002 Epidemiologist, *Merck Research Laboratories*, West Point, PA.
1997-2001 NIDCR Pre-Doctoral Research Fellow, *Harvard Schools of Public Health and Dental
Medicine*, Boston, MA
1995-97 Research Assistant, Division of Epidemiology and Community Health,
University of Minnesota, School of Public Health, Minneapolis, MN.

HONORS

2022 Teaching Innovation Award, Nutrition Department, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2020 Delta Omega Honor Society (Faculty), Nutrition Department, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2015 NHLBI Mentored Research Scientist Development Award (K01)
2015 Pilot & Feasibility Award, competition finalist: UNC Nutrition Obesity Research Center (NORC)
2014 Junior Faculty Development Award, UNC Executive Vice Chancellor & Provost
2009 NHLBI Cardiovascular Disease Epidemiology Post-Doctoral Research Training Fellowship: University of Minnesota, Division of Epidemiology and Community Health

BIBLIOGRAPHY

Book Chapters

1. Bennett BJ, **Meyer KA**. The gut microbiome: its relationship to health and its modulation by diet. *Nutrition and Cardiometabolic Health* (2017; CRC Press; Editors Ronald Krauss, Nathalie Bergeron, Patty Siri-Tarino, George Bray; Chapter 30, pages 571-592).

Peer-Reviewed Publications (total citations: 9,061; h-index=37, 30 last 5 years)

1. Frank SM*, Jaacks LM, Adair LS, Avery CL, **Meyer K**, Rose D, Taillie LS. Adherence to the Planetary Health Diet Index and correlation with nutrients of public health concern: An analysis of NHANES 2003-2018. *AJCN* 2024;119:384-392.
2. Frank SM*, Jaacks LM, Avery CL, Adair LS, **Meyer K**, Rose D, Taillie LS. Dietary quality and cardiometabolic indicators in the USA: A comparison of the Planetary Health Diet Index, Healthy Eating Index-2015, and Dietary Approaches to Stop Hypertension. *PLoS One* 2024;19:30296069.
3. Saraiya V*, Bradshaw P, **Meyer K**, Lund J, Slade GD, Olshan AF. The association between the Mediterranean diet score and death from cancer of the head and neck. *Cancer Causes & Control* 2024;35:77-92.
4. Shea JW, Jacobs DR, Howard AG, Lulla A, Lloyd-Jones DM, Murthy VL, Shah RV, Trujillo-Gonzalez I, Gordon-Larsen P, **Meyer KA**. Choline metabolites and incident cardiovascular disease in a prospective cohort of adults: Coronary Artery Risk Development in Young Adults (CARDIA) Study. *AJCN* 2024;119:29-38.
5. Chakraborty S, Lulla A, Cheng X, Yeo JY, Mandal J, Yang T, Mei X, Saha P, Golonka RM, Yeoh BS, Mell B, Jia W, Putluri V, Piyarathna DWB, Putluri N, Sreekumar A, **Meyer K**, Vijay-Kumar M, Joe B. Conjugated bile acids are nutritionally re-programmable antihypertensive metabolites. *J Hypertension* 2023;41:979-94.
6. Hu YH, **Meyer K**, Lulla A, Lewis CE, Carnethon MR, Schreiner PJ, Sidney S, Shikany JM, Meirelles O, Launer LJ. Gut microbiome and stages of diabetes in middle-aged adults: CARDIA microbiome study. *Nutrition & Metabolism* 2023; 20:1-11.
7. Shah RV, Steffen LM, Naylor M, Reis JP, Jacobs DR, Jr, Allen NB, Lloyd-Jones D, **Meyer K**, Cole J, Piaggi P, Ramachandran VS, Clish CB, Murthy VL. Dietary metabolic signatures and cardiometabolic risk. *Eur Heart J* 2023; 44: 557-559.
8. Memili A*, Lulla A, Liu H, Shikany JM, Jacobs DR, Jr, Langsetmo L, North KE, Jones C, Launer LJ, **Meyer KA**. Physical activity and diet associations with the gut microbiota in the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *J Nutr* 2023;153:552-561.
9. Cyr-Scully A*, Howard AG, Sanzone E, **Meyer KA**, Du S, Zhang B, Wang H, Gordon-Larsen P. Characterizing the urban diet: development of an urbanized diet index. *Nutr J* 2022; 21:1-14.
10. Choi Y, Gallaher DD, Svendsen K, **Meyer KA**, Steffen LM, Schreiner PJ, Shikany JM, Rana JS, Duprez DA, Jacobs DR. Simple nutrient-based rules vs. a nutritionally rich plant-centered diet in prediction of future coronary heart disease and stroke: prospective observational study in the US. *Nutrients* 2022;14:469-86.
11. Ling W*, Lu J, Zhao N, Lulla A, Plantinga AM, Fu W, Zhang A, Liu H, Song H, Li Z, Chen J, Randolph TW, Koay WLA, White JR, Launer LJ, Fodor AA, **Meyer KA**, Wu MC. Batch effects removal for microbiome data via conditional quantile regression. *Nature Communications* 2022;13:5418. (14 pages)
12. Oelsner EC, Krishnaswamy A, Balte PP, Allen NB, Ali T, Anugu P, Andrews HF, Arora K, Asaro A, Barr RG, Bertoni AG, Bon J, Boyle R, Chang AA, Chen G, Coady S, Cole SA, Coresh J, Cornell E, Correa A, Couper D, Cushman M, Demmer RT, Elkind MSV, Folsom AR, Fretts AM, Gabriel KP, Gallo LC, Gutierrez J, Han MLK, Henderson JM, Howard VJ, Isasi CR, Jacobs Jr DR, Judd SE, Mukaz DK, Kanaya AM, Kandula NR, Kaplan RC, Kinney GL, Kucharska-Newton A, Lee JS, Lewis CE, Levine DA, Levitan EB, Levy BD, Make BJ, Malloy K, Manly JJ, Mendoza-Puccini C, **Meyer KA**, Min Y-IN, Moll MR, Moore WC, Mauger D, Ortega VE, Palta P, Parker MM, Phipatanakul W, Post WS, Postow L, Psaty BM, Regan EA, Ring K, Roger VL, Rotter JJ, Rundek T, Sacco RL, Schembri M, Schwartz DA, Seshadri S, Shikany JM, Sims M, Stukovsky KDH, Talavera GA, Tracy RP, Umans JG, Vasani RS, Watson KE, Wenzel SE, Winters K, Woodruff PG, Xanthakis V, Zhang Y, Zhang Y, C4R Investigators. Collaborative cohort of cohorts for COVID-19 research (C4R) study: study design. *Am J Epidemiol* 2022;191:1153-73.
13. Seiger E*, Ouda R, Ruto N, Dianga P, Lytle L, **Meyer K**, Ammerman A, Voruganti S, Nandoya E, Omala H, Owuor M, Martin S. "We just eat this food because of hunger or because we cannot afford other foods":

- Drivers of adolescent food choice from the perspectives of adolescents and influential adults. *Curr Dev Nutr* 2022;6:603-606.
14. **Meyer K**, Lulla A, Debroy K, Shikany JM, Yaffe K, Meirelles O, Launer LJ. Association of the gut microbiota with cognitive function in midlife. *JAMA Network Open* 2022;5:e2143941.
 15. Adam HS, Lakshminarayan K, Wang W, Norby FL, Mosley T, Walker KA, Gottesman RF, **Meyer K**, Hughes TM, Pankow JS, Wong DF, Jack CR, Sen S, Lutsey PL, Beck J, Demmer RT. *J Clin Periodon* 2022;49:322-34.
 16. Ling W, Zhao N, Plantinga AM, Launer LJ, Fodor AA, **Meyer KA**, Wu MC. Powerful and robust non-parametric association testing for microbiome data via a zero-inflated quantile approach (ZINQ). *Microbiome* 2021;9:1-19.
 17. Pan XF, Yang JJ, Shu XO, Moore SC, Palmer ND, Guasch-Ferre M, Herrington DM, Harada S, Eliassen H, Wang TJ, Gerszten RE, Albanes D, Tzoulak I, Karaman I, Elliott P, Zhu H, Wagenknecht LE, Zheng W, Cai H, Cai Q, Matthews CE, Menni C, **Meyer KA**, Lipworth LP, Ose J, Fornage M, Ulrich CM, Yu D. *AJCN* 2021;114:893-906.
 18. Kurilshikov A, Medina-Gomez C, Bacigalupe R, Radjabzadeh D, Wang J, Demirkan A, Le Roy CI, Raygoza Garay JA, Finnicum CT, Liu X, Zhernakova DV, Jan Bonder M, Hansen TH, Frost F, Rühlemann MC, Turpin W, Moon JY, Kim NH, Lüll K, Barkan E, Shah SA, Fornage M, Szopinska-Tokov J, Wallen ZD, Borisevich D, Agreus L, Andreasson A, Bang C, Bedrani L, Bell JT, Bisgaard H, Boehnke M, Boomsma DI, Burk RD, Claringbould A, Croitoru K, Davies GE, van Duijn CM, Duijts L, Falony G, Fu J, van der Graaf A, Hansen T, Homuth G, Hughes DA, Ijzerman RG, Jackson MA, Jaddoe VWV, Joossens M, Jørgensen T, Keszthelyi D, Knight R, Laakso M, Laudes M, Launer LJ, Lieb W, Lusi AJ, Masclee AAM, Moll HA, Mujagic H, Qibin Q, Rothschild D, Shin H, Sørensen SJ, Steves CJ, Thorsen J, Timpson NJ, Tito RY, Vieira-Silva S, Völker U, Völzke H, Vösa U, Wade KH, Walter S, Watanabe K, Weiss S, Weiss FU, Weissbrod O, Westra HJ, Willemsen G, Payami H, Jonkers DMAE, Vasquez AA, de Geus EJC, **Meyer KA**, Stokholm J, Segal E, Org E, Wijmenga C, Kim HL, Kaplan RC, Spector TD, Uitterlinden AG, Rivadeneira F, Franke A, Lerch MM, Franke L, Sanna S, D'Amato M, Pedersen O, Paterson AD, Kraaij R, Raes J, Zhernakova A. Large-scale association analyses identify host factors influencing human gut microbiome composition. *Nature Genetics* 2021;53:156-165.
 19. Wang Y*, Wang H, Howard AG, Tsilimigras MCB, Avery CL, **Meyer KA**, Sha W, Sun S, Zhang J, Su C, Wang Z, Zhang B, Fodor AA, Gordon-Larsen P. Gut microbiota and host plasma metabolites in association with blood pressure in Chinese adults. *Hypertension* 2021;77:706-717.
 20. Yang JJ, Shu XO, Herrington DM, Moore SC, **Meyer KA**, Ose J, Menni C, Allred ND, Eliassen H, Harada S, Tzoulaki I, Zhu H, Albanes D, Wang TJ, Zheng W, Cai H, Ulrich N, Gausch-Ferre M, Karaman I, Fornage M, Cai Q, Matthews CE, Wagenknecht LE, Xiang YB, Gerszten RE, Zannetti K, Yu D. Circulating trimethylamine N-oxide (TMAO) in association with diet and cardiometabolic biomarkers: An international pooled analysis. *AJCN* 2021;113:1145-1156.
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 23. Prizment AE, Staley C, Onyeaghala C, Vivek S, Thyagarajan B, Straka RJ, Demmer RT, Knights D, **Meyer KA**, Shaikat A, Sadowsky MJ, Church TR. Randomised clinical study: oral aspirin 325 mg daily vs placebo alters gut microbial composition and bacterial taxa associated with colorectal cancer risk. *Alimentary Pharmacology & Therapeutics* 2020;52:976-987.
 24. Wang Y*, Wang H, Howard AG, **Meyer KA**, Tsilimigras MCB, Avery CL, Sha W, Sun S, Zhang J, Su C, Wang Z, Zhang B, Fodor AA, Gordon-Larsen P. Circulating short-chain fatty acids are positively associated with adiposity measures in Chinese adults. *Nutrients* 2020;12:2127.
 25. Saraiya V*, Bradshaw P, **Meyer K**, Gammon M, Slade G, Brennan P, Abedi-Ardekani B, Olshan A. The association between diet quality and cancer incidence of the head and neck. *Cancer Causes & Control* 2020;31:193-202.
 26. Ramin S*, Mysz MA, **Meyer K**, Capistrant B, Lazovich D, Prizment A. A prospective analysis of dietary fiber intake and mental health quality of life in the Iowa Women's Health Study. *Maturitas* 2020;131:1

27. Carson JA, Lichtenstein A, Anderson C, Appel L, Kris-Etheron P, **Meyer K**, Petersen K, Polonsky T, Van Horn L. Dietary cholesterol and cardiovascular risk: AHA Scientific Statement. *Circulation* 2020;141:e39-e53.
28. Shikany JM, Demmer RT, Johnson AJ, Fino NF, **Meyer K**, Ensrud KE, Lane NE, Orwoll ES, Kado DM, Zmuda JM, Langsetmo L, Osteoporotic Fractures in Men (MrOS) Research Group. Association of dietary patterns with the gut microbiota in older, community-dwelling men. *Amer J Clin Nutr* 2019;110:1003-14.
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31. Wang J, Kurishikov A, Radjabzadeh D, Turpin W, Croitoru K, Bonder MJ, Jackson MA, Medina-Gomez C, Frost F, Homuth G, Ruhlemann M, Hughes D, Kim HN, MiBioGen Consortium Initiative, Spector TD, Bell JT, Steves CJ, Timpson N, Franke A, Wijmenga C, **Meyer K**, Kacprowski T, Franke L, Paterson AD, Raes J, Kraaij R, Zhernakova A. Meta-analysis of human genome-microbiome association studies: the MiBioGen consortium initiative. *Microbiome* 2018;6:101 (7 pages) doi:10.1186/s40168-018-0479-3
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33. **Meyer KA**, Shea JW. Dietary choline and betaine and risk of CVD: a systematic review and meta-analysis of prospective studies. *Nutrients* 2017;9:711. (13 pages) doi:10.3390/nu9070711
34. Rummo PE*, Guilkey DK, Ng SW, **Meyer KA**, Popkin BM, Reis JP, Shikany JM, Gordon-Larsen P. Understanding bias relationships between the food environment and diet quality: the Coronary Artery Risk Development in Young Adults (CARDIA) study. *J Epidemiol & Comm Health* 2017;71:1185-90.
35. Petruski-Ivleva N*, Kucharska-Newton A, Palta P, Couper D, **Meyer K** Milk intake at midlife and cognitive decline over 20 years: the Atherosclerosis Risk in Communities (ARIC) study. *Nutrients* 2017;9:1134
36. Hirsch JA*, **Meyer KA***, Peterson M, Zhang L, Rodriguez DA, Gordon-Larsen P. Municipal investment in off-road trails and changes in bicycle commuting in Minneapolis, Minnesota over 10 years: a longitudinal repeated cross-sectional study. *Int J of Behav Nutr and Phys Act* 2017;14:21- doi 10.1186/s12966-017-0475-1 (9 pages) *contributed equally
37. **Meyer KA**, Bennett BJ. Diet, gut microbiota metabolites, and cardiovascular disease risk in diabetes. *Curr Diab Rep.* 2016;16:93. (13 pages) doi:10.1007/s11892-016-0791-x.
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39. **Meyer KA**, Benton TZ, Bennett BJ, Jacobs DR, Lloyd-Jones DM, Gross MD, Gordon-Larsen P, Zeisel SZ. The microbiota-dependent metabolite trimethylamine N-oxide (TMAO) and coronary artery calcium in the Coronary Artery Risk Development in Young Adults Study (CARDIA). *J Am Heart Assoc.* 2016;5:e003970. (11 pages) doi:10.1161/JAHA.116.003970.
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41. **Meyer KA**, Guilkey DK, Tien HC, Kiefe CI, Popkin BM, Gordon-Larsen P. Instrumental variables simultaneous equations model of physical activity and body mass index: Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Amer J Epidemiol.* 2016;184:465-76. doi: 10.1093/aje/kww010.
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43. Rummo PE*, **Meyer KA**, Howard AG, Shikany JM, Guilkey DK, Gordon-Larsen P. Fast food price, diet behavior, and cardiometabolic health: differential associations by neighborhood SES and neighborhood fast food restaurant availability in the CARDIA study. *Health & Place* 2015;35:128-135.
44. Boone-Heinonen J, Howard AG, **Meyer K**, Lewis CE, Kiefe CI, Laroche HH, Gunderson EP, Gordon-Larsen P. Marriage and parenthood in relation to obesogenic neighborhood trajectories: The CARDIA Study. *Health & Place* 2015;34:229-240.
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51. **Meyer KA**, Harnack LJ, Luepker RV, Zhou X, Jacobs DR Jr, Steffen LM. 22-year cross-sectional population trends in sodium and potassium consumption: the Minnesota Heart Study. *J Am Heart Assoc.* 2013;2:e000478 (9 pages) doi:10.1161/jaha.113.000478.
52. Mursu J, Steffen LM, **Meyer KA**, Duprez D, Jacobs DR Jr. Diet quality indices and mortality in postmenopausal women: the Iowa Women's Health Study. *Am J Clin Nutr* 2013;98:444-53.
53. **Meyer KA**, Sijtsma FPC*, Nettleton JA, Steffen LM, Van Horn L, Shikany JM, Gross MD, Mursu J, Traber MG, Jacobs DR. Dietary patterns are associated with plasma F₂-isoprostanes in an observational cohort study of adults. *Free Radic Biol Med* 2013;57:201-9.
54. Sijtsma FP*, **Meyer KA**, Steffen LM, Shikany JM, Van Horn L, Harnack L, Kromhout D, Jacobs DR Jr. Longitudinal trends in diet and effects of sex, race, and education on dietary quality score change: the Coronary Artery Risk Development in Young Adults study. *Am J Clin Nutr.* 2012;95:580-6.
55. **Meyer KA**, Wall MM, Larson NI, Laska MN, Neumark-Sztainer D. Sleep duration and BMI in a sample of young adults. *Obesity (Silver Spring)* 2012;20:1279-1287.
56. **Meyer KA**, Demerath EW, Hannan PJ, Neumark-Sztainer D. Body fat is differentially related to body mass index in U.S.-born African-American and East African immigrant girls. *Am J Hum Biol* 2011;23:720-3.
57. Thyagarajan B, **Meyer KA**, Smith L, Williams DO, Beckett WS, Gross MD, Jacobs DR. Serum carotenoid concentrations predict evolution of lung function in young adults: the CARDIA study. *Am J Clin Nutr* 2011;94:1211-1218.
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59. Decker K, **Meyer K**, Thompson D, Littlefield D. Similar asthma prevalence estimates obtained from pre-adolescent and parent survey responses. *J Clin Epidemiol* 2008;61:611-6.
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61. Tippy K, **Meyer K**, Aronson R, Wall T. Characteristics of coordinated ongoing comprehensive care within a medical home in Maine. *Maternal and Child Health J* 2005;9(2 Suppl):S13-21.
62. **Meyer KA**, Williams P, Hernandez-Diaz S, Cnattingius S. Smoking and the risk of oral clefts: exploring the impact of study designs. *Epidemiology* 2004;15:671-8.
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66. **Meyer KA**, Conigrave KM, Chu NF, Rafai N, Spiegelman DM, Stampfer MJ, Rimm EB. Alcohol consumption patterns and HbA1c, C-peptide, and insulin concentrations in men. *J Am Coll Nutr* 2003;22:185-94.
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Non-refereed publications

1. Lu M, Howard AG, Gordon-Larsen P, **Meyer KA**, Tian HC, Du S, Wang H, Zhang B, Kosorok MR. Constructing a T-test for value function comparison of individualized treatment regimes in the presence of multiple imputation for missing data. arXiv:2312. 15217, 2023.
2. Ling W, Zhao N, Lulla A, Plantinga AM, Fu W, Zhang A, Liu H, Li Z, Chen J, Randolph T, Koay WLA, White JR, Launer LJ, Fodor AA, **Meyer KA**, Wu MC. Batch effects removal for microbiome data via conditional quantile regression (ConQuR). bioRxiv 2021.
3. Oelsner EC, Allen NB, Ali T, Anugu P, Andrews H, Asaro A, Balte PP, Barr RG, Bertoni AG, Bon J, Boyle R, Chang AA, Chen G, Cole SA, Coresh J, Cornell E, Correa A, Couper D, Cushman M, Demmer RT, Elkind MSV, Folsom AR, Fretts AM, Gabriel KP, Gallo L, Gutierrez J, Han MLK, Henderson JM, Howard VJ, Isasi CR, Jacobs DR, Judd SE, Mukaz DK, Kanaya AM, Kandula NR, Kaplan R, Krishnaswamy A, Kinney GL, Kucharska-Newton A, Lee JS, Lewis CE, Levine DA, Levitan EB, Levy B, Make B, Malloy K, Manly JJ, **Meyer KA**, Min YI, Moll M, Moore WC, Mauger D, Ortega VE, Palta P, Parker MM, Phipatanakul W, Post W, Psaty BM, Regan EA, Ring K, Roger VL, Rotter JI, Rundek T, Sacco RL, Schembri M, Schwartz DA, Seshadri S, Shikany JM, Sims M, Stukovsky KDH, Talavera GA, Tracy RP, Umans JG, Vasani RS, Watson K, Wenzel E, Winters K, Woodruff PG, Xanthakis V, Zhang Y, Zhang Y, C4R Investigators. Collaborative cohort of cohorts for COVID-19 research (C4R): Study Design. medRxiv 2021

Refereed Published Abstracts

1. Frank SM, Jaacks LM, **Meyer K**, Rose D, Adair LS, Avery CL, Taillie LS. Dietary quality and dietary greenhouse gas emissions in the USA: A comparison of the Planetary Health Diet Index, Healthy Eating Index-2015, and Dietary Approaches to Stop Hypertension. *IJBNPA* 2024;21:36
2. Hullings A, Howard AG, **Meyer K**, Avery C, North K, Mhatre S, Sha W, Li Y, Rushing B, Sumner S, Du X, Lewis C, Gordon-Larsen P. Sex-modified lipid associations with plasma metabolites after BMI adjustment: The CARDIA Study. *Obesity* 2023;31:208.
3. **Meyer KA**, Lulla A, Wu M, Demmer R, Yaffe K, Meirelles O, Launer LJ. Midlife cognitive function is

- associated with gut microbial species and metabolic pathways: Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Circulation* 2023;147:AP505.
4. Sprinkles J, Lulla A, Shea J, MacIntosh B, Kohlmeier M, **Meyer KA**. Polyphenol metabolite production displays individual variability and associations with usual diet: A dietary challenge study. *Circulation* 2023;147:AP609.
 5. Hullings AG, Howard AG, **Meyer KA**, Avery CL, North KE, Mhatre S, Sha W, Du XX, Li YY, Rushing B, Sumner S, Lewis CE, Gordon-Larsen P. Modification of diet-metabolite associations by race and sex in the Coronary Artery Risk Development in Young Adults Study. *Circulation* 2023;147:AP414.
 6. **Meyer KA**, Howard AG, Shah RV, Murthy VL, Jacobs DR, Gordon-Larsen P. Plasma betaine, but not trimethylamine N-oxide or choline, associated with 15-year incident diabetes: Coronary Artery Risk Development in Young Adults Study. *Circulation* 2022;145:AP161.
 7. Hu YH, **Meyer K**, Lulla A, Meirelles O, Launer LJ. Gut microbiome and stages of diabetes in middle-aged adults: CARDIA Microbiome Study. *Circulation* 2022;145(AP163).
 8. Lulla A, Gabriel KP, Puterman E, Ingram KH, Petrosino J, Shikany JM, Meirelles O, Launer LJ, **Meyer KA**. Midlife physical activity is associated with gut microbial species and metabolic pathways in the Coronary Artery Risk Development in Young Adults Study *Circulation* 2022;145:AP077.
 9. **Meyer KA**, Lulla A, Debroy K, Shikany JM, Yaffe K, Meirelles O, Launer LJ. The gut microbiome and cognitive function in midlife: The CARDIA Study. *Alzheimer's & Dementia* 2021;17:e050921
 10. Choi Y, Gallaher D, Svendsen K, **Meyer K**, Steffen L, Schreiner P, Duprez D, Shikany J, Rana J, Jacobs D. Which predicts incident cardiovascular disease better: A plant-centered diet or a low-saturated fat diet? The Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Current Developments in Nutrition* 2021;5:1019.
 11. Adam HS, Lakshminarayan K, Wang W, Norby FL, Mosley T, Walker K, Gottesman RF, **Meyer K**, Hughes TM, Pankow JS, Wong D, Jack C, Sen S, Lutsey PL, Beck JD, Demmer R. Prospective association between periodontal disease and brain imaging markers of cerebrovascular and neurodegenerative disease: The Atherosclerosis Risk in Communities (ARIC) Study. *Circulation* 2021;143:AP123.
 12. Chakraborty SC, Lulla A, Cheng X, McCarthy CG, Yeo JY, Alimadadi A, Mandal J, Saha P, Yeoh BS, Louis EF, Mell B, Jia W, Wenceslau CF, Vijay-Kumar M, **Meyer K**, Joe B. Sex and salt-responsive conjugation of bile acids by the holobiont regulates hypertension. *Journal of Hypertension* 2021;39:e263-e264.
 13. Chakraborty S, Lulla A, Cheng X, McCarthy C, Yeo JY, Mandal J, Alimadadi A, Saha P, Yeoh BS, Mell B, Jia W, Putluri V, Putluri N, Sreekumar A, Wenceslau CF, Kumar MV, **Meyer KA**, Joe B. Bile acid metabolites modulate hypertension. *Hypertension* 2020;76:AP238.
 14. Chakraborty S, Lulla A, Cheng X, McCarthy C, Yeo JY, Mandal J, Alimadadi A, Saha P, Yeoh BS, Mell B, Jia W, Putluri V, Putluri N, Sreekumar A, Wenceslau CF, Kumar MV, **Meyer KA**, Joe B. Sex differences in salt-responsive modulation of bile acids by microbiota regulates hypertension. *FASEB J* 2020;34:1.
 15. Yano Y, Lulla A, Howard AG, Gidding S, Muntner P, Lewis C, Blewer AL, Hatano Y, Lloyd-Jones DM, Launer LJ, Bress A, **Meyer KA**. Adiposity mediates the association between gut microbial diversity and hypertension: CARDIA study. *Circulation* 2020;141:AP174.
 16. Yang JJ, Shu XO, Herrington DM, Moore SC, **Meyer KA**, Ose J, Menni C, Palmer ND, Zheng W, Harada S, Zhu H, Albanes D, Wang TJ, Ulrich CM, Fornage M, Cai Q, Matthews CE, Hsu FC, Xiang YB, Gerszten RE, Cai H, Yu D. Associations of circulating trimethylamine N-oxide (TMAO) with dietary intakes and cardiometabolic biomarkers: Results from the TMAO Pooling Project. *Circulation* 2020;140:A13422.
 17. Prizment AE, Menk J, Staley C, Vivek S, Onyeaghala G, Thyagarajan B, Demmer R, Knights D, **Meyer K**, Shaikat A, Khorutz A, Sadowsky M, Straka RJ, Church T. Effect of aspirin on gut microbiome in a pilot randomized double-blind trial. *Cancer Research* 2019;79(13 Supplement):5060.
 18. Campo YED, Crandell JL, Tucker KL, Ammerman A, **Meyer KA**, Mayer-Davis EJ. Dietary patterns associated with cardiometabolic risk factors for Puerto Ricans with and without type 2 diabetes living in Boston, Massachusetts. *Current Developments in Nutrition* 2019;3(Supplement_1), nzz039:P18-063-19.
 19. **Meyer KA**, Egg consumption is associated with cardiovascular disease risk factors in the Coronary Artery Risk Development in Young Adults study. *Circulation* 2017;135(Suppl_1):AP286.
 20. **Meyer KA**, Benton TZ, Bennett BJ, Jacobs DR, Lloyd-Jones DM, Gross MD, Gordon-Larsen P, Zeisel SH. Trimethylamine N-oxide is not associated with coronary artery calcium in healthy, young adults with normal kidney function: Coronary Artery Risk Development in Young Adults Study, 2000-2011. *American Heart Association: Epidemiology and Prevention/Lifestyle and Cardiometabolic Health. 2016 Scientific Sessions. March 1-4, 2016. Phoenix, AZ. Circulation. 2016;133(Suppl_1):AP025.*
 21. Braun LM, Rodriguez D, Song Y, **Meyer K**, Lewis C, Gordon-Larsen P. The built environment and walking

- behavior: Addressing residential sorting through matching in the CARDIA study. *J Transport & Health* 2016;3:S14.
22. Rummo PE, Guilkey DK, Ng SW, **Meyer KA**, Reis JP, Shikany JM, Gordon-Larsen P. Instrumental variables regression to account for bias in associations between the food environment and diet quality in the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *American Heart Association: Epidemiology and Prevention/Lifestyle and Cardiometabolic Health*. 2016 Scientific Sessions. March 1-4, 2016. Phoenix, AZ. *Circulation*. 2016;133:A33.
 23. **Meyer KA**, Duffey KJ, Rodriguez DA, Lewis CE, Kiefe CI, Gordon-Larsen P. An obesogenic neighborhood environment factor score and changes in BMI in the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *American Heart Association: Nutrition, Physical Activity, and Metabolism/Cardiovascular Disease Epidemiology and Prevention*. 2013 Scientific Sessions. March 19 - 22, 2013; New Orleans, LA. *Circulation*. 2013;127:AP298.
 24. Zhu N, Jacobs DR, **Meyer KA**, He K, Launer LJ, Reis JP, Yaffe K, Sidney S, Whitmer R, Steffen LM. Dietary pattern is associated with better cognitive function: The CARDIA Study. *American Heart Association: Nutrition, Physical Activity, and Metabolism/Cardiovascular Disease Epidemiology and Prevention*. 2013 Scientific Sessions. March 19 - 22, 2013; New Orleans, LA. *Circulation*. 2013;127:AP400
 25. Mursu J, **Meyer KA**, Robien K, Harnack L, Jacobs DR. Healthy eating index and food based a priori diet pattern score and mortality in postmenopausal women: The Iowa Women's Health Study. *American Heart Association: Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism*. 2012 Scientific Sessions. March 13-16, 2012. San Diego, CA. *Circulation*. 2012;125:AMP091.
 26. Sijtsma FP, **Meyer KA**, Nettleton JA, Steffen LM, Van Horn L, Shikany JM, Holvoet P, Gross MD, Kromhout D, Jacobs DR. Higher diet quality is prospectively associated with markers of endothelial dysfunction: The Coronary Artery Risk Development in Young Adults Study. *American Heart Association: Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism*. 2012 Scientific Sessions. March 13-16, 2012. San Diego, CA. *Circulation*. 2012;125:AP369.
 27. **Meyer K**, Larson N, Story M, Cutler G, Hannan P, Neumark-Sztainer D. Dietary behavior changes from adolescence to young adulthood: Findings from Project EAT (Eating and Activity in Teens and Young Adults). *American Heart Association: Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism*. 2012 Scientific Sessions. March 13-16, 2012. San Diego, CA. *Circulation*. 2012;125:AP062
 28. **Meyer K**, Hannan PJ, Neumark-Sztainer D. Ten-year longitudinal trends in obesity in a multiethnic adolescent cohort. *Obesity* 2011;19:S148.
 29. Jacobs DR, Jr, Kromhout D, Alonso A, **Meyer K**, Menotti A, Blackburn H. Lower forced vital capacity within its normal range predicts increase in systolic blood pressure during 10 years: The Seven Countries Study. *Amer J Resp and Crit Care Med* 2010;181:A3139.
 30. Hernandez-Diaz S, Hernan MA, **Meyer K**, Werler MM, Mitchell AA. Case-crossover, case-time-control, and exposed case-series designs in birth defects epidemiology. *Amer J Epidemiol* 2002;155:S7.
 31. Jacobs DR, Jr, Pereira MA, **Meyer KA**, Kushi LH. Fiber from whole grains, but not refined grains, is inversely associated with all-cause mortality in older women: The Iowa Women's Health Study. *J Amer Coll Nutr* 2000;19:326S.

Refereed Unpublished Abstracts

1. **Meyer KA**, Sijtsma FP, Nettleton JA, Steffen LM, Van Horn L, Shikany JM, Holvoet P, Gross MD, Jacobs DR, Jr. Non-lycopene carotenoids and alpha-, but not gamma-, tocopherol may mediate the prospective association between diet and oxidative stress: CARDIA. *American Heart Association: Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism*. 2011 Scientific Sessions.
3. Filion KB, Jacobs DR Jr, Steffen LM, **Meyer KA**, Duvall S, Blackburn H, Luepker RV. Cigarette smoking and the socially disadvantages: The Minnesota Heart Survey. *American Heart Association: Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism*. 2011 Scientific Sessions.
4. Yochum LA, Kushi LH, **Meyer KA**, Zheng W, Folsom AR. Dietary flavonoid intake and death from coronary heart disease in postmenopausal women. *American Heart Association: Scientific Sessions* 1998.
5. Kushi LH, **Meyer KA**, Folsom AR, Jacobs DR, Wallace RB. Dietary fat and fiber and death from coronary heart disease in women. *American Heart Association: Scientific Sessions* 1998.

Non-Refereed Publications

1. **Meyer KA**, Memili A, Jacobs DR, Gordon-Larsen P. Editorial: Unraveling disease pathways involving the gut microbiota: the need for deep phenotyping and longitudinal data. *AJCN* 2022;115:1261-62.
2. **Meyer KA**, Taillie LS. Editorial: Intake of ultraprocessed foods among US youths: Health concerns and opportunities for research and policy. *JAMA* 2021;326:485-87.
3. **Meyer KA**. Editorial: Population studies of TMAO and its precursors may help elucidate mechanisms. *AJCN* 2020;111;1115-16.
4. Jacobs DR, Mursu J, **Meyer KA**. Editorial: The importance of food. *Arch Pediatr Adolesc Med* 2012;166:187-88.
5. Jacobs DR, **Meyer KA**. Invited commentary: On population subgroups, mathematics, and interventions. *Am J Epidemiol* 2011;173:388-390.

INVITED CONFERENCE TALKS

- 2023 Biologic mechanisms, population impact, and precision nutrition. Conference Keynote. Catalyst Symposium. March 31, 2023; Kannapolis, NC
- 2022 Gut microbiome and cardiometabolic health. 15th Congress International Society of Nutrigenetics & Nutrigenomics. November 19, 2022; Monterrey, Nuevo Leon, Mexico.
- 2022 Dietary patterns, weight, and inflammatory markers across adulthood. Interdisciplinary Nutrition Sciences Symposium. July 22, 2022; Chapel Hill, NC.
- 2019 Gut microbiome and blood pressure. American Heart Association Scientific Sessions: Microbiota and Hypertension: What Bugs You? Session. November 16, 2019; Philadelphia, PA.
- 2019 Gut microbiome and blood pressure: Interplay with nutrition. Hypertension Scientific Sessions: Recent Advances Plenary. September 6, 2019; New Orleans, LA.
- 2019 Intersection of diet, genetics, and gut microbiome: trimethylamine N-oxide and cardiovascular disease. International Society of Nutrigenetics and Nutrigenomics Congress. July 12, 2019; Cambridge, UK.
- 2019 Trimethylamine N-oxide and cardiovascular disease. 12th International Conference on One Carbon Metabolism, B Vitamins, and Homocysteine. June 11, 2019; Montbrió, Southern Catalonia, Spain.
- 2017 Gut microbiota and blood pressure: CARDIA Microbiome Study. American Heart Association Scientific Sessions: Epidemiology, Big Data, and Precision Medicine: State of the Science: “Omics” and CVD. November 13, 2017; Anaheim, CA
- 2017 Gut microbiota community characteristics in a biracial cohort: CARDIA Microbiome Study, American Heart Association Scientific Sessions: EPI/QCOR/Lifestyle Early Career Program: Cutting Edge Methods in Big Data and Beyond. November 11, 2017; Anaheim, CA
- 2017 The role for population-based studies in translational microbiome research. Gut Microbes and Human Health Strategies for Building Translational Research Programs. Symposium at Gillings School of Public Health, University of North Carolina at Chapel Hill. October 26, 2017.
- 2017 Microbiota-dependent metabolite trimethylamine N-oxide and coronary artery calcium in the Coronary Artery Risk Development in Young Adults Study (CARDIA). American Heart Association Epidemiology/Lifestyle Scientific Session: Hot Off the Press Session; March 9, 2017; Portland, OR.
- 2017 Industry funding and junior faculty. Industry Nutrition Advisory Panel (INAP) Session on Industry Funded Research: Controversies and Opportunities. American Heart Association Epidemiology /Lifestyle Annual Meeting; March 6, 2017; Portland, OR.

TEACHING ACTIVITIES

- 2022-2023 Instructor (with Anna Kahkoska): Nutritional Epidemiology
Department of Nutrition, University of North Carolina at Chapel Hill
Graduate. Enrollment: 55-66 students
- 2021-2022 Instructor: Nutritional Epidemiology
Department of Nutrition, University of North Carolina at Chapel Hill
Graduate. Enrollment: 38-52 students
- 2020 Instructor (with Emma Tzioumis): Nutritional Epidemiology
Department of Nutrition, University of North Carolina at Chapel Hill
Graduate. Enrollment: 30-40 students
- 2019 Instructor (with Lindsey Taillie): Nutritional Epidemiology
Department of Nutrition, University of North Carolina at Chapel Hill
Graduate. Enrollment: 30-40 students

- 2018 Instructor (with Sandra Albrecht): Nutritional Epidemiology
Department of Nutrition, University of North Carolina at Chapel Hill
Graduate. Enrollment: 30-40 students
- 2018-2022 Instructor (microbiome): Nutrigenomics Workshop
Nutrition Research Institute, University of North Carolina at Chapel Hill
Enrollment: 50-70 students
- 2017 Instructor (with Stephen Hursting and Emma Allott): Nutrition Doctoral Seminar
Department of Nutrition, University of North Carolina at Chapel Hill
Graduate. Enrollment: 12-15 students
- 2013, 2015 Co-Instructor: Analytical Methods in Nutritional Epidemiology
Department of Nutrition, University of North Carolina at Chapel Hill
Graduate. Enrollment: 12-15 students
- 2000 Instructor: Introductory Epidemiology
Graduate Program in Medical Epidemiology, Karolinska Institute
Graduate. Enrollment: 20-30 students
- 1999 Instructor: Introductory Epidemiology
Graduate Program in Epidemiology, Karolinska Institute
Graduate. Enrollment: 30-40 students
- 1999-2000 Head Teaching Assistant: Intermediate Epidemiology
Department of Epidemiology, Harvard School of Public Health
Instructors: Murray Mittleman, Donna Spiegelman
Graduate. Enrollment, class: 120, Enrollment, lab sections: 15-20
- 1998-1999 Teaching Assistant: Introductory Epidemiology (for majors)
Department of Epidemiology, Harvard School of Public Health
Instructors: Eric Rimm, James Robins
Graduate. Enrollment, class: 120, Enrollment, lab sections: 15-20
- 2000-2001 Teaching Assistant: Nutritional Epidemiology
Departments of Epidemiology & Nutrition, Harvard School of Public Health
Instructors: Walter Willett, Frank Hu
Graduate. Enrollment: 35-40

Student advising

Doctor of Philosophy

- Current Chair. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Jessica Sprinkles.
Expected graduation: 2026
Co-chair (with Lindsey Smith Taillie). Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Gabriela Vatajuk Serrati.
Expected graduation: 2025
Committee member: Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Autumn Hullings; Advisor: Penny Gordon-Larsen
Expected graduation: 2024
Committee member: Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Afroditi Papantoni; Advisor: Kyle Burger
Expected graduation: 2024
Committee member: Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Romaniya Voloshchuk; Linda Adair
Expected graduation: 2026
- 2024 Committee member: Nutrition Department, Gillings School of Global Public Health;

- University of North Carolina at Chapel Hill.
 Student: Kylie Reed; Advisor: Ian Carroll
 Title: The role of the intestinal microbiota in weight, anxiety-related behavior, and energy harvest in anorexia nervosa
 Committee member: Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
- Student: Emily Seiger; Advisor: Stephanie Martin
 Title: A mixed methods analysis of adolescent girls' diet quality, diet practices, nutrition status, and ideas for improving diet in the context of the dual burden of malnutrition in an urban informal settlement in Kenya
 Committee member: Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
- Student: Yunzhi Qian; Advisor: Ian Carroll
 Title: Intestinal energy harvest as potential mediator for gut microbiota facilitated weight loss in bariatric surgery patients
 Committee member: Biostatistics Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
- Student: Minxin Lu. Advisor: Michael Kosorak
 Title: Addressing practical challenges in the application of precision medicine methods to observational data
- 2023 Committee member. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
 Student: Sarah Frank. Advisor: Lindsey Smith Taillie
 Title: The Planetary Health Diet Index and its associations with environmental and health measures in the United States
- 2021 Committee member. Epidemiology Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
 Student: Veeral Saraiya; Advisor: Andrew Olshan
 Title: The consideration of diet quality in head and neck cancer incidence and survival
- 2020 Committee member. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
 Student: Yiqing Wang; Advisor: Penny Gordon-Larsen
 Title: Pathways from diet to blood pressure through gut microbiota: a population-based study across 12 provinces and 3 megacities in China
 Committee member. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
 Student: Yanire Estrada del Campo; Advisor: Alice Ammerman
 Title: Systematic adaptation of an evidence-based diet intervention for Puerto Rican adults with diabetes living in Boston
- 2019 Committee member. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
 Student: Ruixue Hou; Advisor: Saroja Voruganti
 Title: Genetic variants and their interaction with calcium intake and physical activity associate with bone health in Hispanic children
- 2017 Committee member. Epidemiology Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
 Student: Natalia Petruski-Ivleva; Advisor: Gerardo Heiss
 Title: The association of habitual milk intake with the rate of cognitive decline, and risk of mild cognitive impairment and dementia
- 2015 Committee member. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
 Student: Andrea Richardson; Advisor: Penny Gordon-Larsen
 Title: How do changes in the neighborhood food environment influence diet and body mass index over time? An innovative method using 20 years of spatial, diet, and anthropometry data

Master's (MS, MPH)

- 2024 Committee member. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Aditya Shetye; Advisor: Penny Gordon-Larsen
Title: Race and sex differences in metabolomic profile by red and processed meat consumption in Coronary Artery Risk Development in Young Adults (CARDIA) Study (2005-2006)
Committee co-chair. School of Kinesiology; The University of British Columbia
Student: Joshua Webster; Advisor: Eli Puterman
Title: Self-reported and accelerometer-recorded physical activity and cross-sectional associations with the gut microbiome: Coronary Artery Risk Development in Young Adults Study.
- 2020 Thesis advisor. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Sam Rasnic
Title: Associations between mental health and fruit and vegetable consumption among U.S. transgender adults: Behavior Risk Factor Surveillance System, 2015 and 2017.
- 2019 Committee member. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Cyrus Adams-Mardi; Advisor: Melinda Beck
Title: Does the gut microbiota influence the immune response to influenza vaccination in obese populations?
- 2017 Program advisor. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Erika Meier
- 2016 Thesis advisor. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Stephanie Bryant; Program Advisor: Amanda Holliday
Title: Narrative review of artificial sweeteners and their role in type 2 diabetes self-management: Clinical and policy implications

Bachelor of Science in Public Health

- 2024 Research advisor. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill. Student: Charles Steward
Title: Choline metabolites and non-alcoholic fatty liver disease in an observational cohort
Committee member. Biostatistics Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill. Student: Adam Horne. Advisor: Annie Green Howard.
Title: Comparison of machine learning methods for predicting HOMA-IR from complex lipid metabolomics
- 2023 Research advisor. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Tiana Jacobs
Title: The diet of the Lumbee: A comparison of the dietary shifts of the Tribe pre- and post-colonization
- 2019 Research advisor. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Aylin Memili
Title: Gut microbiota and health behaviors in a biracial cohort: CARDIA
- 2017 Second reader. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Yongkyum Kim (Advisor: Penny Gordon-Larsen)
Title: Gut microbiota in relation to glycemic status in rural and urban Chinese people
- 2016 Second reader. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Jenna Sedberry (Advisor: Martin Kohlmeier)

2014 Title: Development and evaluation of an online gluten free meal planning tool
Second reader. Nutrition Department, Gillings School of Global Public Health; University of North Carolina at Chapel Hill.
Student: Eric Schafer (Advisor: Kimberly Truesdale)
Title: The effect of healthy food affordability for children supported by WIC and/or SNAP

GRANT SUPPORT

ACTIVE

R01-HL143885 (NHLBI) Gordon-Larsen (MPI) 04/01/2019-03/31/2025

Leveraging multi-omics approaches to examine metabolic challenges of obesity in relation to cardiovascular disease

Role: co-I
\$1,488,427

R33-HL142680 (NHLBI) Keyserling (MPI) 06/01/2019-08/31/2024

Randomized explanatory trial of a Mediterranean dietary pattern weight loss intervention for primary care practices

Role: co-I
\$111,158

R01-HL155417 (NHLBI) Wu (PI) 03/15/2021-03/31/2025

Statistical methods for large scale microbiome studies of cardiovascular disease risk

Role: co-I
\$460,006

COMPLETED

U01-HL096812 (NHLBI) Coresh (MPI) 07/07/2010-08/31/2023

ARIC neurocognitive study (ARIC-NCS) renewal

Role: Subcontract co-I
\$9,031,930

P30-DK056350 (NIDDK) Mayer-Davis (MPI) 09/30/1999-03/31/2026

UNC Nutrition Obesity Research Center

Role: Microbiome subcore consultant
\$1,082,071

National Institute on Aging Intramural Award Launer (PI) 08/31/2019-08/30/2022

Whole-metagenomics of the gut microbiome and the brain

Role: Subcontract PI
\$27,079

Balchem Meyer (PI) 07/01/2019-06/30/2021

Circulating TMAO, choline, and betaine and cardiovascular disease (CVD) in prospective, population-based cohorts

Role: PI
\$300,000

K01-HL127159 (NHLBI) Meyer (PI) 03/15/2015-02/28/2021

A novel gut microbial-dependent nutrient metabolite and atherosclerosis

Role: PI
\$126,570

Wake Forest Non-Human Primate Center Pilot Meyer (PI) 06/20/2018-07/31/2019

Diet, gut microbiota, and cardiovascular disease (CVD) risk factors in non-human primates

Role: PI
\$15,000

NC TraCS Pilot Grant Meyer (PI) 07/01/2017-07/01/2018

Functional gut microbiome and cardiovascular disease (CVD) risk in type 1 diabetes

Role: PI
\$50,000

UNC-CH University Research Council Meyer (PI) 05/01/2016-04/30/2018

Gut microbiota composition and cardiovascular disease risk in a biracial cohort: CARDIA

Role: PI
\$7,500

National Institute on Aging Intramural Award Launer (PI) 02/01/2016-10/31/2017

Brain MRI and gut microbiome: CARDIA

Role: Subcontract PI
\$25,000

Nutrition Research Institute Faculty Fellow Grant Meyer (PI) 04/01/2015-06/30/2016

Gut microbiome and cardiovascular disease in population-based studies

Role: PI
\$50,000

UNC Junior Faculty Development Award Meyer (PI) 01/01/2015-12/31/2015

Gut microbiome and influenza vaccine response in adults

Role: PI
\$7,500

Egg Nutrition Center Meyer (PI) 10/01/2014-05/01/2016

Choline, trimethylamine N-oxide, and atherosclerosis in a prospective cohort

Role: PI
\$99,921

NC TraCS Pilot Grant Meyer (PI) 10/01/2014-01/01/2016

A home-based nutrient challenge for mechanistic study in a population-based cohort: a pilot study

Role: PI
\$2,000

R01 HL104580 (NHLBI) Gordon-Larsen (PI) 04/01/2012-03/31/2015

Obesity and metabolic risk disparities: Underlying food environment factors

Role: Epidemiologist
\$362,255

R01 HL114091 (NHLBI) Gordon-Larsen (PI) 04/01/2012-03/31/2015

Environmental changes and health outcomes across 25 years: Four US cities

Role: Epidemiologist
\$444,221

T32 HL007779 (NHLBI) Folsom (PI) 10/01/2009-03/31/2012

Cardiovascular disease epidemiology and prevention

Role: Post-Doctoral Research Fellow
\$408,829

T32 DE007151 (NIDCR) Douglass (PI) 09/01/1997-10/31/2001

New England oral disease epidemiology training program

Role: Pre-Doctoral Research Fellow
\$328,541

PROFESSIONAL SERVICE

Department

2018- MPH Committee Member
Department of Nutrition, University of North Carolina at Chapel Hill
2018 Led comprehensive examination effort for epidemiology
Department of Nutrition, University of North Carolina at Chapel Hill
2013-2017 BSPH Committee Member
Department of Nutrition, University of North Carolina at Chapel Hill

School

2020- Ad hoc reviewer: Gillings Study Section. Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2018 Pilot grant reviewer: Nutrition Obesity Research Center (NORC), University of North Carolina at Chapel Hill
2014- Member, Nutrition Obesity Research Center (NORC), University of North Carolina at Chapel Hill
2016- Associate Fellow, UNC Center for Gastrointestinal Biology and Disease (CGIBD), University of North Carolina at Chapel Hill

State

2017 Pilot grant reviewer CORBIN Triangle Center for Evolutionary Medicine (TriCEM)

National

2023 Moderator: David Kritchevsky Memorial Session on Nutrition. AHA Epi|Lifestyle Scientific Sessions. March 2, 2023. Boston, MA.
2021 NIH study section: ZHL1 PPG-Z NHLBI Program Project Applications (P01) (November 4)
2020- CARDIA Publications & Presentations Committee
2020 Temporary reviewer NIH study section: Kidney, Nutrition, Obesity and Diabetes (February 5-6)
2019 Temporary reviewer NIH study section: Kidney, Nutrition, Obesity and Diabetes (October 8-9)
2018-19 American Heart Association (AHA) Nutrition Council writing team: AHA Scientific Statement on dietary cholesterol and cardiovascular disease
2017 Pilot grant reviewer: Nutrition Obesity Research Center, University of California at San Diego
2017 Invited Panel Discussant, American Heart Association (AHA) Industry Nutrition Advisory Panel (INAP) session on “Industry Funded Research: Controversies and Opportunities”; AHA Epidemiology /Lifestyle Annual Meeting: March 6, 2017; Portland, OR.
2015 Invited Panel Discussant, National Heart, Lung, and Blood Institute Training Session; American Heart Association (AHA) Epidemiology/Lifestyle Annual Meeting: March 4, 2015; Baltimore, MD.
2016- Member, American Society of Nutrition: Aging and Chronic Disease, Dietary Bioactive Components, Nutrient-Gene Interactions, Nutrition Translation, and Nutritional Epidemiology Research Interest Sections
2016- Member, Cohorts for Heart & Aging Research in Genomic Epidemiology Consortium (CHARGE): Nutrition and Microbiome Working Groups
2010- Member, American Heart Association: Epidemiology and Lifestyle Councils

International

2020-2023 Editorial Board, Nutrients.
2019- Member, International Society of Nutrigenetics/Nutrigenomics

Ad-hoc publication referee: American Journal of Epidemiology; American Journal of Clinical Nutrition; American Journal of Preventive Medicine; Annals of the New York Academy of Medicine; BMC Public Health; BMJ Nutrition, Prevention & Health; British Journal of Nutrition; Circulation; Epidemiology; Hypertension; International Journal of Obesity; JAMA; JAMA Cardiology; JAMA Internal Medicine; Journal of the American

College of Cardiology; Journal of Nutrition; Journal of Nutrition, Health, and Aging; Nature Communications; Nutrients; Obesity; Public Health Nutrition; Stroke.