

**Curriculum Vitae  
Mariaelisa Graff  
2026**

**PERSONAL**

**Business Address:** Department of Epidemiology  
University of North Carolina at Chapel Hill  
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**EDUCATION**

- 2006                    **Doctor of Philosophy Degree**  
Nutritional Epidemiology  
Emory University  
Dissertation: The role of childhood nutrition, pre-pregnant nutrition status and education on fertility in Ladino Guatemalan women.  
Advisors: Dr. Aryeh Stein and Dr. Reynaldo Martorell.
- 2000                    **Masters of Science Degree**  
Nutrition Science  
University of Utah  
Thesis: Calcium absorption and Vitamin D receptor genotype in rachitic and nonrachitic Nigerian children.  
Advisor: Dr. Diane Stadler
- 2000                    **Dietetic Degree**  
Nutrition & Dietetics  
University of Utah  
Dietetic Internship: VA hospital, Salt Lake City, UT;  
Jos University Teaching Hospital, Jos, Nigeria  
Registered Dietician Certification taken 2003 for 2003-2008;  
Renewals: 2008-2013, 2013-2018.  
State certification: Texas 2006-2010; NC 2008-2015, 2015-2023
- 1996                    **Bachelor of Science Degree**  
Molecular Biology/Nutrition  
Brigham Young University  
Laboratory Research: Mitochondrial Genes and Obesity in Pima Indians  
Advisor: Dr. Mark Rowe

**PROFESSIONAL EXPERIENCE**

**Research Associate Professor**  
2021-present            Genetic Epidemiology  
Department of Epidemiology  
University of North Carolina at Chapel Hill  
123 E. Franklin Street, Suite 4216

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**Research Assistant Professor**

2015-present      Genetic Epidemiology  
Department of Epidemiology  
University of North Carolina at Chapel Hill  
137 E. Franklin Street, Suite 305  
Chapel Hill, North Carolina 27514  
(919) 966-2148 / (512) 589-1712

**Post-doctoral Fellow**

2011-2015      Obesity and Cardiovascular Disease Genetic Epidemiology  
Department of Epidemiology  
University of North Carolina at Chapel Hill  
137 E. Franklin Street, Suite 305  
Chapel Hill, North Carolina 27514  
(919) 966-2148 / (512) 589-1712  
Mentor: Dr. Kari North

**Post-doctoral Fellow**

2009-2011      Interdisciplinary Obesity Training Program  
Department of Nutrition/Carolina Population Center  
University of North Carolina at Chapel Hill  
123 W. Franklin Street, Suite 408B  
Chapel Hill, North Carolina 27516  
(919) 843-9966 / (919) 966-2148  
Mentors: Dr. Penny Gordon-Larsen and Dr. Kari North

**Project Manager**

2007 - 2008      North Carolina Agromedicine Institute  
East Carolina University  
Greenville, NC  
(252)744-1045  
[tutorr@ecu.edu](mailto:tutorr@ecu.edu)

**Registered Dietician**

2007      Hill Country Family Specialists  
Leander, TX  
(512)259-2222

**Research Consultant**

2006-2007      Ultra-Scan Corp.  
Fingerprint analysis for biological research  
Amhurst, NY  
(716)832-6269  
[support@ultra-scan.com](mailto:support@ultra-scan.com)

**Pre-doctoral Research Assistant**

2001- 2006      Department of Global Health  
Emory University

1514 Clifton Road  
Decatur, GA  
(494)727-4255  
[aryeh.stein@emory.edu](mailto:aryeh.stein@emory.edu)

**Research Associate**

1997-1999

Myriad Genetics  
Obesity/Asthma Section  
Salt Lake City, UT 84105  
(801) 584-3600  
<https://www.myriad.com>

**Medical Assistant/Intern**

1997

Neuro-radiology Clinic  
The University of Homburg/Saar Hospital  
Homburg, Germany  
[Neurochirurgie.Ambulanz@uks.eu](mailto:Neurochirurgie.Ambulanz@uks.eu)  
(06841)-16-16000

**Summer Fellow**

1994

National Institutes of Health/NIDDK  
Diabetes Molecular Genetics Section,  
Phoenix Epidemiology and Clinical Research Branch  
Pima Indian Hospital, Genetics Lab  
Phoenix, AZ  
(602)200-5200

**Research Assistant/  
Lab Manager**

1992-1996

Brigham Young University  
Genetics and Nutrition lab  
Provo, Utah  
(801) 422-3042

**HONORS/AWARDS**

2018

University of North Carolina Center of Global Initiative travel award

2016

University of North Carolina EHRA faculty award for meritorious performance

2014

CHARGE Consortium (Cohorts for Heart and Aging Research in Genomic) Tiger New Investigator Award

2014

New Investigator Travel Award, American Heart Association Epidemiology/Nutrition, Physical Activity and Metabolism Conference

2012-2013

University of North Carolina CVD Epidemiology Fellowship

2009-2013

Carolina Population Center Postdoctoral Fellowship

2009-2011

Interdisciplinary Obesity Postdoctoral Training Fellowship

2000

Finalist, Graduate Student Research Award, Society for International Nutrition Research

1999-2000	Graduate Student Fellowship Award, University of Utah for travel to and study in Nigeria
1999	Dietetic Intern, Veterans Army Hospital, Salt Lake City, UT
1998	Dietetic Intern, Jos University Teaching Hospital, Jos, Nigeria
1997	Medical Assistant Intern, University of Homburg Hospital, Homburg, Germany
1994	NIH/NIDDK Summer Research Intern, Pima Indian Hospital, Phoenix, AZ
1993	Summer Intern, US Mission to NATO, Brussels, Belgium

## MEMBERSHIPS

The American Society of Human Genetics  
The American Heart Association  
The Obesity Society

## PUBLICATIONS

### Published Peer Reviewed Articles

\*Denotes shared first authorship

†Denotes shared senior authorship

Public URL of publications from myNCBI:

<https://www.ncbi.nlm.nih.gov/myncbi/1laKyIP5wtfk7/bibliography/public/>  
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### 2026

- 194 Daeun Kim, Hannah G. Polikowsky, Heather M. Highland, Hung-Hsin Chen, Wanying Zhu, Xinruo Zhang, Madeline G. Gillman, MS, Elizabeth G. Frankel, Rashedeh Roshani, MS, Joshua M. Landman, Yujie Wang, Kristin L. Young, Mohammad Yaser Anwar, Mohanraj Krishnan, Victoria L. Buchanan, Sonja I. Berndt, PharmD, Joshua D. Arias, Laura M. Raffield, Absalon D. Gutierrez, Faraz Bishehsari, Miryoung Lee, Joseph B. McCormick, MD, Susan P. Fisher-Hoch, Jennifer E. Below, Kari E. North, and **Mariaelisa Graff**. Integrated Genomic and Transcriptomic Study Reveals MAPK11 and PER1 as Important Obesity Susceptibility Genes in a High-risk Hispanic/Latino Population. *Circulation: Genomic and Precision Medicine*.  
<https://doi.org/10.1161/CIRCGEN.125.005298>. April 2026
- 193 Palmer CA, Avery CL, Ballantyne CM, **Graff M**, Hoogeveen RC, Jukic AM, Conners KM. Heterogeneity in Lipoprotein(a) Profile Changes Across the Menopausal Transition. *medRxiv [Preprint]*. 2026 Mar 25;2026.03.23.26349133. doi: 10.64898/2026.03.23.26349133. PMID: 41929294
- 192 Lee MP, Koenigsberg SH, Anwar MY, Raffield LM, Lin Z, Ballou AF, Booth JN 3rd, Davy-Mendez T, Kassahun H, Kent ST, López JAG, Monda KL, North KE, Yarosh R, Ballantyne CM, **Graff M\***, Avery CL\*. Lp(a) Has Specific Effects on Coronary Artery Disease Independent of LDL-C: A Mendelian Randomization Study. *JACC Adv*. 2026 Mar 25;5(5):102697. doi: 10.1016/j.jacadv.2026.102697. Online ahead of print. PMID: 41889052
- 191 Lee HH, Avery CL, **Graff M**, Kim D, Arias J, Van Horn L, Kooperberg C, North KE. Impact of Genetic Predisposition to Obesity on Long-Term Maintenance of Modest Weight Loss in Postmenopausal Women. *Obesity (Silver Spring)*. 2026 Apr;34(4):782-786. doi: 10.1002/oby.70175. Epub 2026 Mar 6. PMID: 41792585

- 190 Chen BD, Tapia A, Boerwinkle E, Clish CB, Gerszten R, **Graff M**, Mohlke KL, Morrison AC, Pathmasiri W, Rich SS, Rotter JI, Rushing BR, Sumner S, Tracy RP, Young KL, Yu B, Thyagarajan B, Reiner AP, Li Y, Raffield L. Association of metabolomics measurements with blood cell phenotypes. *Blood Cells Mol Dis*. 2026 Mar;117:102966. doi: 10.1016/j.bcmd.2025.102966. Epub 2025 Nov 4. PMID: 41289847
- 189 Van Buren E, Zhang Y, Li X, Selvaraj MS, Li Z, Zhou H, Palmer ND, Arnett DK, Blangero J, Boerwinkle E, Cade BE, Carlson JC, Carson AP, Chen YI, Curran J, Duggirala R, Fornage M, Franceschini N, **Graff M**, Gu C, Guo X, He J, Heard-Cosa N, Hou L, Hung YJ, Kalyani RR, Kardia SLR, Kenny E, Kooperberg C, Kral BG, Lange L, Levy D, Li C, Liu S, Lloyd-Jones D, Loos RJF, Manichaikul AW, Martin LW, Mathias R, Minster RL, Mitchell BD, Mychaleckyj JC, Naseri T, North K, O'Connell J, Perry JA, Peyser PA, Psaty BM, Raffield LM, Vasani RS, Redline S, Reiner AP, Rich SS, Smith JA, Spitzer B, Tang H, Taylor KD, Tracy R, Vialli S, Yanek L, Zhao W; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Rotter JI, Peloso GM, Natarajan P, Lin X. cellSTAAR: incorporating single-cell-sequencing-based functional data to boost power in rare variant association testing of noncoding regions. *Nat Methods*. 2026 Feb;23(2):338-349. doi: 10.1038/s41592-025-02919-5. Epub 2025 Dec 31. PMID: 41476111
- 188 Sprinkles JK, Howard AG, Hullings AG, Shetye A, Wilkins JT, **Graff M**, Shaikh SR, Avery CL, North KE, Gordon-Larsen P, Meyer KA. Plasma lipidomics and 15-year risk of incident diabetes: a coronary artery risk development in young adults study. *J Lipid Res*. 2026 Mar;67(3):100992. doi: 10.1016/j.jlr.2026.100992. Epub 2026 Jan 30. PMID: 41621715
- 187 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, de Las Fuentes L, Feitosa MF, Guo X, Hanfei X, Harris SE, Huang Z, Kals M, Lefevre C, Mangino M, Milaneschi Y, van der Most PJ, 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 HH, Chen W, Ida Chen YD, Chen Z, Cho K, De Anda-Duran I, 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**, Charles Gu C, 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 Jr, 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, Triatn 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, van Dijk KW; Lifelines Cohort Study; Million Veteran Program; Jaquish CE, Wilson PW, Peyser PA, Munroe PB, de Vries PS, Gauderman WJ, Sun YV, Chen H, Miller CL, Winkler TW, Rao DC, Redline S, van Heemst D. Genome-wide gene-sleep interaction study identifies novel lipid loci in 732,564 participants. *Atherosclerosis*. 2026 Jan;412:120603. doi:10.1016/j.atherosclerosis.2025.120603. PMID: 41325697; PMCID:PMC12757440.
- 186 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 Americans. *HGG Adv*. 2026 Jan 15;7(1):100552. doi: 10.1016/j.xhgg.2025.100552. Epub 2025 Dec 4. PMID: 41351263; PMCID: PMC12903085.
- 185 Anwar MY, Highland HM, Sheng Q, Chen HH, Roshani R, Frankel EG, Landman J, Kim D, Young KL, Zhu W, Krishnan M, Gutierrez A, Larsen PG, Lee M, Gamazon ER, Amancherla K, Das S, Betti MJ, Fisher-Hoch SP, McCormick JB, Below JE\*, **Graff M\***, Shah RV\*, North KE\*. Multi-omics of human obesity and related multi-system diseases. *J Clin Endocrinol Metab*. 2026 Jan 21;111(2):506-523. doi: 10.1210/clinem/dgaf373. PMID: 40581728

## 2025

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- Brody JA, Chittoor G, Fisher-Hoch SP, Heard-Costa NL, Levy D, Lin H, Loos RJF, McCormick JB, Rotter JI, Mirshahi T, Still CD, Destefano A, Cupples LA, Mohlke KL, North KE, Justice AE, Liu CT. Integrating genetic and transcriptomic data to identify genes underlying obesity risk loci. *Int J Obes (Lond)*. 2025 Nov;49(11):2346-2357. doi: 10.1038/s41366-025-01898-z. Epub 2025 Sep 26. PMID: 41006818
- 183 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 Nov 1;179(11):1227-1229. doi: 10.1001/jamapediatrics.2025.2991. PMID: 40920413; PMCID: PMC12418218.
- 182 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, van der Most PJ, 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, de Borst MH, de Las Fuentes L, 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; Lifelines Cohort Study; Liu J, Marques-Vidal P, Martinez-Perez A, Matsuda K, McNeil JJ, Milanesechi 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; Biobank Japan Project; Tinashe C, van Dam RM, Vaucher J, Völker U, Wang C, Wilson OD, Wong TY, Xu J, Yamamoto K, Yao J, Yokota M, Young KL, Zimmermann ME, Amouyel P, Below JE, Bergmann S, Bernabe-Ortiz A, Bierut L, Boehnke M, Bowden DW, Brandenburg JT, Chasman DI, Cheng CY, Ciullo M, Concas MP, Conen D, Cox SR, Dauchet L, de Silva HJ, Dörr M, Edwards TL, Fox ER, Franceschini N, Freedman BI, Girotto G, Gudnason V, Harlow SD, Heid IM, Hung AM, Ichihara S, Jaquish CE, John C, Jonas JB, Jukema JW, Kato N, Keavney BD, Kelly TN, Laakso M, Lacaze P, Lakka T, Lee S, Lehtimäki T, Liu CT, Loos RJF, North KE, Penninx B, Province MA, Psaty BM, Redline S, Rosendaal FR, Rotimi CN, Rotter JI, Sabater-Lleal M, Schmidt H, Sim X, Snieder H, Spedicati B, Stark KJ, Terao C, Wagenknecht LE, Weir DR, Zhao W, Zhu X, Munroe PB, Sun YV, Gauderman J, Manning AK, Fornage M, Aschard H, Wang H, de Vries PS, Wang G, Rao DC, Morrison AC, Chen H. Large-Scale Gene-Smoking Interactions and Fine Mapping Study Identifies Multiple Novel Blood Pressure Loci in over 1 Million Individuals. *medRxiv [Preprint]*. 2025 Oct 7:2025.10.06.25337440. doi: 10.1101/2025.10.06.25337440. PMID: 41480028
- 181 Kim D, Highland HM, Smit RAJ, Hysong MR, Buchanan VL, Young KL, Zhao C, Spracklen CN, Kilpeläinen TO, Guo B, Darst BF, Cai Y, Wang Z, Lundin J, Berndt SI, Manson JE, Marouli E, Lange L, Lange E, Fornage M, Gignoux CR, Haiman CA, Rich SS, Buyske S, Loos RJF, Kooperberg C, Peters U, Avery CL, Gordon-Larsen P, **Graff M**, Raffield LM, North KE. Genetic underpinnings of the heterogeneous impact of obesity on lipid levels and cardiovascular disease. *Genome Med*. 2025 Oct 6;17(1):113. doi: 10.1186/s13073-025-01522-9. PMID: 41053791; PMCID: PMC12502452.
- 180 Guo B, Cai Y, Kim D, Smit RAJ, Wang Z, Iyer KR, Hilliard AT, Haessler J, Tao R, Broadaway KA, Wang Y, Pozdeyev N, Stæger FF, Yang C, Vanderwerff B, Patki AD, Stalbow L, Lin M, Rafaels N, Shortt J, Wiley L, Stanislawski M, Pattee J, Davis L, Straub PS, Shuey MM, Cox NJ, Lee NR, Jørgensen ME, Bjerregaard P, Larsen C, Hansen T, Moltke I, Meigs JB, Stram DO, Yin X, Zhou X, Chang KM, Clarke SL, Guarischi-Sousa R, Lankester J, Tsao PS, Buyske S, **Graff M**, Raffield LM, Sun Q, Wilkens LR, Carlson CS, Easton CB, Liu S, Manson JE, Marchand LL, Haiman CA, Mohlke KL, Gordon-Larsen P, Albrechtsen A, Boehnke M, Rich SS, Manichaikul A, Rotter JI, Yousri NA, Irvin RM; biobank at the Colorado Center for Personalized Medicine; VA Million Veteran Program; Population Architecture using Genomics and Epidemiology (PAGE) study; Gignoux C, North KE, Loos RJF, Assimes TL, Peters U, Kooperberg C, Raghavan S, Highland HM, Darst BF. Polygenic risk score for type 2 diabetes shows context-dependent effects across populations. *Nat Commun*. 2025 Oct 1;16(1):8632. doi: 10.1038/s41467-025-63546-4. PMID: 41034193;

PMCID: PMC11875254.

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- 73 SA Bien, GL Wojcik, J Haessler, R Tao, GM Belbin, **M Graff**, HM Highland, YM Patel, C Hodonsky, KL Young, CL Avery, S Buyske, C Haimon, L Le Marchand, RJF Loos, TC Matise, CS Carlson, U Peters, EE Kenny, KE North, CR Gignoux, C Kooperberg, PAGE. Performance of genetic risk scores in a multiethnic study. American Society of Human Genetics Meetings Houston, TX October 2019 (Poster Presentation).
- 72 D Kim, AE Justice, G Chittoor, E Blanco, **M Graff**, Y Wang, R Rohde, C Albala, JL Santos, B Angel, B Lozoff, VS Voruganti, KE North, S Gahagan. Genetic determinants of appetite hormones in adolescence: The Santiago Longitudinal Study (SLS). American Society of Human Genetics Meetings Houston, TX October 2019 (Poster Presentation).
- 71 AE Justice, G Chittoor, **M Graff**, M Preuss, S Gahagan, E Blanco, C Abala, JL Santos, B Angel, B Lozoff, RJF Loos, VS Voruganti, KE North, SLS Study and the GIANT BMI Working Group. Polygenic risk of obesity in Chilean children: The Santiago Longitudinal Study (SLS). American Society of Human Genetics Meetings Houston, TX October 2019 (Poster Presentation).
- 70 RAJ Smit, **M Graff**, RW Walker, AR Wood, M Preuss, KL Young, E Marouli, CM Lindgren, KE North, TM Frayling, JN Hirschhorn, RFJ Loos, on behalf of the Genetic Investigation of ANthropometric Traits (GIANT) Consortium. Resilience to obesity in genetically at-risk individuals: A study on the underlying mechanisms. American Society of Human Genetics Meetings Houston, TX October 2019 (Poster Presentation).
- 69 C Bizon, K Bradford, E Morris, **M Graff**, Y Wang, KE North, P Gordon-Larsen. Explanatory knowledge graph analysis of GWAS and MWAS associations with obesity reveals biological interpretations of statistical results. American Society of Human Genetics Meetings Houston, TX October 2019 (Poster Presentation).
- 68 **M Graff**, M Preuss, S Sakaue, I Ntalla, SI Berndt, S Vedantam, A Locke, E Marouli, L Yengo, AE Justice, KL Young, Y Lu, M Kanai, TM Frayling, Y Okada, P Deloukas, KE North, JN Hirschhorn, RJF Loos, on behalf of the GIANT Consortium. Clinical utility of polygenic risk prediction for obesity across age, sex, and ancestrally diverse population subgroups. American Society of Human Genetics Meetings Houston, TX October 2019 (Poster Presentation).
- 2018
- 67 **Graff M**, et al. Genetic analyses of diverse populations improves discovery for complex traits. UNC CVD Seminar series. Oct 2018 (Oral Presentation)
- 66 Lindsay Fernández-Rhodes, Mariaelisa Graff, Jonathan Bradfield, Yujie Wang, Esteban J Parra, Miguel Cruz, Jesús Peralta-Romero, Astride Audirac-Chalifour, Bertha Hidalgo, Heather Highland, Anthony G Comuzzie, Nancy F Butte, Shelley A Cole, KE North. The Association of Common Genetic Loci with Childhood Obesity in 1,612 Hispanic/Latino Children and Adolescents From Across the United States and Mexico. American Heart Association Epidemiology and Prevention | Lifestyle and Cardiometabolic Health. New Orleans, LA, March 2018 (Poster Presentation)
- 2017
- 65 AR Baldassari, S Buyske, H Highland, L Hindorff, AP Reiner, RC Kaplan, EE Kenny, U Peters, D Darbar, KE North, DE Arking, RV Shohet, **M Graff**, E Soliman, CM Sitlani, CJ Hodonsky, R Gondalia, R Tao, EA Whitsel, C Kooperberg, CL

- Avery. Univariate and phenome-wide GWAS of correlated electrocardiographic traits offer novel insights into genetics of cardiac electrophysiology: the Population Architecture using Genomics and Epidemiology (PAGE) study. American Society of Human Genetics Meetings Orlando, FL October 2017 (Poster Presentation).
- 64 JT Bensen, **M Graff**, KL Young, P Sethupathy, J Parker, CV Pecot, K Currin, SA Haddad, EA Ruiz-Narváez, CA Haiman, Chi-Chen Hong, LE Sucheston-Campbell, Q Zhu, S Liu, S Yao, EV Bandera, L Rosenberg<sup>6</sup>, KL Lunetta, CB Ambrosone, JR Palmer, MA Troester, AF Olshan. Survey of microRNA SNPs identifies novel breast cancer loci in African American Women. American Society of Human Genetics Meetings Orlando, FL October 2017 (Poster Presentation).
- 63 HM Highland, S Bien, YM Patel, **M Graff**, A Vishnu, B Lin, R Tao, D Lin, KL Young, S Liu, L Phillips, Q Qi, JI Rotter, L Hindorff, S Buyske, TC Matise, K.E North, C Kooperberg, J.S Pankow, C Haiman, RJF Loos. Genetic Factors Influence Glycated Hemoglobin, Fasting Glucose, and Fasting Insulin Levels in the Population Architecture Using Genomics and Epidemiology Consortium. American Society of Human Genetics Meetings Orlando, FL October 2017 (Poster Presentation).
- 62 KK Nishimura, **M Graff**, J Haessler, C Hodonsky, R Tao, S Bien, C Schurmann, G Nadkarni, S Buyske, C Haiman, L Le Marchand, RJF Loos, T Matise, KE North, U Peters, CS Carlson, AP Reiner, CL Avery, C Kooperberg on behalf of the PAGE Study Trans-Ethnic GWAS Identifies Genetic Variants Associated with White Blood Cell Counts in the Population Architecture using Genomics and Epidemiology (PAGE) Study. American Society of Human Genetics Meetings Orlando, FL October 2017 (Poster Presentation).
- 61 Hu Y, **Graff M**, Nishimura, K, Haessler, J, Buyske, S, Haiman, C, Le Marchand, L, Martin, LW, Wilkens, L, Zubair, N, Bien, S, Ambite, JL, Do, R, Lu, Y, Verbanck, M, Tao, R, Stram, D, Loos, RJF, Matise, T, Kooperberg, C, North, KE, Cheng, I, Peter, U On behalf of the PAGE Study Novel genetic variants associated with lipid levels in a multi-ethnic population from the Population Architecture using Genomics and Epidemiology (PAGE) Study. American Society of Human Genetics Meetings Orlando, FL October 2017 (Poster Presentation).
- 60 KL Young, L Park, I Cheng, Y Li, S Bien, **M Graff**, H Highland, R Tao, L Le Marchand, C Schurmann, D Stram, K North, T Matise, Steve Buyske, 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 Meetings Orlando, FL October 2017 (Poster Presentation).
- 59 G Chittoor, AE Justice, E Blanco, **M Graff**, Y Wang, C Albala, JL Santos, B Angel, B Lozoff, VS Voruganti, KE North, S Gahagan Association of genetic risk score with childhood obesity-related traits: The Santiago Longitudinal Cohort Study (SLCS). American Society of Human Genetics Meetings Orlando, FL October 2017 (Poster Presentation).
- 58 **Graff M** Harmonization and analysis approaches for gene-environment interaction studies Being Precise in Precision Medicine: Measuring Exposures in Diverse Populations September 28, 2017 Case Western University, Cleveland, OH (Invited oral presentation).
- 2016
- 57 **M Graff**, AE Justice, C Schurmann, Ran Tao, KK Nishimura, R Walker, M Preuss, J Kocarnik, A Vishnu, S Yoneyama, KL Young, L Fernandez-Rhodes, A Shadyab, S Liu, T Assimes, D Garcia, E Kenny, S Buyske, U Peters, KE North, RJF Loos A Search for Multiethnic Genetic Markers of Anthropometric traits among Ethnically Diverse US Populations in Population Architecture using Genomics and Epidemiology (PAGE) Consortium The Obesity Society Meetings New Orleans, November 2016 (Poster Presentation).
- 56 **M Graff**, V Turcot, Yingchang Lu, Claudia Schurmann, HM Highland, A Justice, KL Young, M Feitosa, J Wang, E Marouli, A Wood, LACupples, P Deloukas, TM Frayling, JN Hirschhorn, G Lettre, CM Lindgren, KE North, Ingrid B Borecki, RJF Loos, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia Novel protein altering rare and low-frequency variants associated with body mass index The Obesity Society Meetings New Orleans, November 2016 (Poster Presentation).
- 55 RJF Loos, V Turcot, Y Lu, HM Highland, C Schurmann, **M Graff**, AE Justice, RS Fine, KL Young, M Feitosa, E Marouli, A Wood, LA Cupples, IB Borecki, JA Pospisilik, deCODE genetics, TM Frayling, G Lettre, CM Lindgren, KE North, JN Hirschhorn, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia Exome-wide association meta-analysis for body mass index identifies protein-altering variants revealing new insight in the biology underpinning obesity American Society of Human Genetics conference Vancouver, Canada, October 2016.
- 54 E Marouli, **M Graff**, C Medina-Gomez, K Sin lo, A Wood, T.R Kjaer, R.S Fine, C Schurmann, C Oxvig, Z Kutalik, F Rivadeneira, R.J.F Loos, T.M Fraylin<sup>6</sup>, J.N Hirschhor<sup>8</sup>, G Lettre, P Deloukas For deCODE Genetics, the BBMRI-NL, the

GOT2D, the CHARGE, and the GIANT Consortia 83 rare and low-frequency coding variants implicate specific genes affecting human height variation American Society of Human Genetics conference Vancouver, Canada, October 2016.

- 53 Rieger, S., Wood, A R., Marouli, E., **Graff M.**, Medina-Gomez, C., Sin Lo, K., & Kutalik, Z., on behalf of the GIANT consortium Summary statistic imputation method enables conditional analysis across meta-analysis studies: Application to GIANT height associations from exome-chip & HapMap Presented at the European Society of Human Genetics Meetings, Barcelona, Spain, May 2016. (Oral presentation)
- 52 V Turcot, Y Lu, HM Highland, C Schurmann, AE Justice, KL Young, J Wang, P Lenzini, **M Graff**, AL Cupples, TM Frayling, JN Hirschhorn, G Lettre, CM Lindgren, KE North, IB Borecki, RJF Loos, For the BBMRI, the GOT2D, the CHARGE, and the 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, Canada, May 2016 (Oral Presentation)
- 51 G Lettre, E Marouli, **M Graff**, C Medina-Gomez, K Sin Lo, A Wood, Z Kutalik, JN Hirschhorn, R JF Loos, TM Frayling, P Deloukas, Fernando Rivadeneira, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia Exploring the role of rare and low-frequency coding variants in adult height using an ExomeChip International Human Genetics Conference, Kyoto, Japan, April 2016 (Oral Presentation).
- 50 AJ Park, **M Graff**, A Giri, BV Howard, JM Wu, RM Ward, DR Velez Edwards, TL Edwards, N Shara, CL Avery, KE North Genetic determinants of pelvic organ prolapse in women of European American descent: the Women's Health Initiative Meetings of the Society for Gynecological Research, Palm Springs, CA, April 2016 (Oral Presentation).
- 49 Young, KL, Justice, AE, Karaderi, T, Highland, HM, **Graff, M**, Turcot, V, Auer, P, Heard-Costa, NLSchurmann, C, Lu, Y, Pasko, D, Southam, L, Cupples, LA, Liu, C-T, Fox, CS, Winkler, TW, Grarup, N, Scott, RA, McCarthy, M, Mohlke, K, Loos, R J F., Borecki, I, Lindgren, CM, North, KE, 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. American Heart Association Epidemiology and Prevention | Lifestyle and Cardiometabolic Health. Phoenix, AZ, March 2016 (Poster Presentation).
- 48 MCY Ng, **M Graff**, A Justice, K Lu, P Mudgal, K Rand, Y Li, BE Cade, J Brody, MK Wojczynski, LR Yanek, J Smith, MA Nalls, L Lange, S Vedantam, X Guo, D Siscovick, SR Patel, BM Psaty, IB Borecki, DM Becker, LF Bielak, Y Liu, JG Wilson, J Hirschhorn, JI Rotter, CA Haiman, RFJ Loos, KE North, for the African Ancestry Anthropometry Genetic Consortium Genome-wide association of African ancestry imputed to the 1000 Genomes reference panel and anthropometric traits CHARGE Bi-Annual Meetings, Washington, DC, January 2016 (Oral Presentation).
- 2015
- 47 **M Graff**, L Fernandez-Rhodes, HM Highland, C Schurmann, Y Feng, M Cruz, A Valladares-Salgado, J Rangarajan, C Rojo, X Guo, J Rotter, M Allison, RP Igo, A Pereira, E John, T Tusie-Luna, CA Aguilar Salinas, C Gonzalez, C Gignoux, S Iyengar, C Hanis, JE Below, F Hartwig, AE Justice, KL Young, CR Isasi, Q Qi, CC Laurie, AM Stilp, SM Gogarten, VS Voruganti, G Chittoor, R Duggirala, S Puppala, T Dyer, SS Albrecht, L Raffel, D Conti, E Ziv, E Parra, E Kenny, RJF Loos, C Haiman, KE North Exploring genetic variants for anthropometric traits in Hispanic/Latino populations ASHG Conference Baltimore, MA, October 2015 (Poster Presentation).
- 46 **M Graff**, K Sin Lo, E Marouli, C Medina-Gomez, J N Hirschhorn, R J.F Loos, T M Frayling, P Deloukas, Fernando Rivadeneira, G Lettre, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia Exploring the role of rare and low-frequency coding variants in adult height using an ExomeChip CHARGE Bi-Annual Meetings, Jackson, MS, July 2015 (Oral and Poster Presentation).
- 45 AE Justice, K Young, SM Gogarten, **M Graff**, KE North, CA Laurie, C Isassi, CC Laurie Identifying genetic associations with central adiposity in Hispanic subgroups: the HCHS/SOL Study AAPA conference St Louis, MO March 2015 (Poster Presentation)
- 44 **Graff M**, et al Genome-wide gene-physical activity interaction study of BMI and waist-hip-ratio in 180,395 individuals. UNC CVD Seminar series 2015 (Oral presentation).
- 43 CM Lindgren, AE Justice, HM Highland, KL Young, **M Graff**, T Karaderi, NL Heard-Costa, D Pasko, V Turcot, Y Lu, L Southam, L A Cupples, CT Liu, CS Fox, TW Winkler, N Grarup, RA Scott, MM McCarthy, K Mohlke, RJF Loos, IB Borecki, KE North, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia Exome chip meta-analysis

- identifies novel loci and low-frequency variants contributing to body fat distribution American Diabetic Association; Boston, MA June 2015 (Poster Presentation)
- 42 N Zubair, **M Graff**, D Lin, A Manichaikul, I Chen, E Stahl, K Lu, C Haiman, D Crawford, L Dumitrescu, P Buzkova, S Buyske, M Fornage, KE North, C Kooperberg, C Carty Fine-mapping of MetaboChip lipid regions in African American, Hispanic American, Asian, and Native American populations The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2015, Baltimore, MA (Oral Presentation)
- 2014
- 41 **M Graff**, TW Winkler, Z Kutalik, A Justice, L Barata, M Feitosa, S Chu, R Mägi, J Czajkowski, T Fall, Y Lu, TO Kilpeläinen, IM Heid, I Borecki, KE North, Z Kutalik, RJ Loos on behalf of the GIANT (Genetic Investigation of ANthropometric Traits) Consortium Genome-wide interrogation for sex- and age -specific anthropometric trait loci in over 310,000 individuals CHARGE Bi-Annual Meetings, Washington, DC, November 2014 (Oral Presentation)
- 40 AE Justice, HM Highland, KL Young, **M Graff**, T Karaderi, NL Heard-Costa, D Pasko, V Turcot, Y Lu, L Southam, LA Cupples, CT Liu, CS Fox, TW Winkler, N Grarup, RA Scott, MM McCarthy, K Mohlke, RJF Loos, IB Borecki, KE North, and CM Lindgren, For the BBMRI, the GOT2D, the CHARGE, and the GIANT Consortia Exome chip meta-analysis identifies novel loci and low-frequency variants contributing to body fat distribution American Society of Human Genetics, October 2014, San Diego, CA (Poster Presentation)
- 39 MCY Ng, **M Graff**, A Justice, K Lu, P Mudgal, K Rand, Y Li, BE Cade, J Brody, MK Wojczynski, LR Yanek, J Smith, MA Nalls, L Lange, S Vedantam, X Guo, D Siscovick, SR Patel, BM Psaty, IB Borecki, DM Becker, LF Bielak, Y Liu, JG Wilson, J Hirschhorn, JI Rotter, CA Haiman, RFJ Loos, KE North, for the African Ancestry Anthropometry Genetic Consortium Genome-wide association of 44,714 subjects of African ancestry imputed to the 1000 Genomes reference panel identify two novel loci influencing body mass index American Society of Human Genetics, October 2014, San Diego, CA (Poster Presentation)
- 38 VA Fisher, AE Justice, TW Winkler, NL Heard-Costa, KL Young, J Czajkowski, **M Graff**, L Barata, Q Qi, L Qi, A Mahajan, D Hadley, TS Ahluwalia, F Renström, T Workalemahu, M den Hoed, A Chu, N Heard-Costa, J Czajkowski, J Ngwa, K Young, Q Qi, K Monda, KE North, IB Borecki, RJF Loos, LA Cupples Smoking-dependent genetic effects on obesity traits: the GIANT (Genetic Investigation of Anthropomorphic Traits) Consortium American Society of Human Genetics, October 2014, San Diego, CA (Poster Presentation)
- 37 TO Kilpeläinen, **M Graff**, RA Scott, AE Justice, TW Winkler, L Xue, A Mahajan, D Hadley, TS Ahluwalia, F Renström, T Workalemahu, M den Hoed, A Chu, N Heard-Costa, J Czajkowski, J Ngwa, K Young, Q Qi, K Monda, KE North, IB Borecki, RJF Loos, LA Cupples Genome-wide gene-physical activity interaction study of BMI and waist-hip-ratio in 180,395 individuals American Society of Human Genetics, October 2014, San Diego, CA (Poster Presentation)
- 36 **M Graff**, K Lo, K Stirrups, C Medina-Gomez, T Esko, NL Heard-Costa, AE Justice, TW Winkler, L Southam, J Czajkowski, C Schurmann, Yingchang Lu, Todd L Edwards, Ayush Giri, C Lindgren, KE North, I Borecki, Joel N Hirschhorn, Mark McCarthy, P Deloukas, F Rivadeneira, TM Frayling, RJF Loos, G Lettre, on behalf of the UK ExomeChip, the BBMRI, the GOT2D, the CHARGE, and GIANT Consortia Exploring the role of rare and low-frequency coding variants in adult height using an ExomeChip array American Society of Human Genetics, October 2014, San Diego, CA (Oral Presentation)
- 35 L Fernández-Rhodes, Y Li, **M Graff**, W Guan, ML Grove, Q Duan, G Zhang, M Fornage, J Pankow, EW Demerath Centralized adiposity in 2,083 African Americans in the ARIC study International Genetics Epidemiology Society, August 2014, Vienne, Austria (Poster presentation)
- 34 A Justice, TW Winkler, N Heard-Costa, K Young, J Czajkowski, **M Graff**, X Deng, V Fisher, TO Kilpeläinen, L Adrienne Cupples Genome-wide meta-analysis of smoking-dependent genetic effects on obesity traits: the GIANT (Genetic Investigation of ANthropometric Traits) Consortium International Genetics Epidemiology Society, August 2014, Vienne, Austria (Poster presentation)
- 33 LA Lange, **M Graff**, EM Lange, KM Young, KM Harris, AS Richardson, KL Mohlke, KE North, P Gordon-Larsen Evidence for association between SH2B1 gene variants and glycated hemoglobin in non-diabetic European American young adults: The Add Health study The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2014, San Francisco, CA (Poster Presentation)

- 32 **M Graff**, F Xue, TO Kilpelainen, A Justice, T Winkler, K Younger Scott Qi, D Hadley, A Mahajan, S Ahluwalia, A Chu, J Czajkowski, L Qi, J Ngwa, K Monda, NL Heard-Costa, J Ngwa, MC Zillikens, M Grove, T Haller, P Franks, I Borecki, R Loos, KE North, LA Cupples and the GIANT Consortium A Genome-wide meta-analysis of the combined influence of physical activity and genetic variants on body fat distribution in over 94,000 individuals of European descent The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2014, San Francisco, CA (Oral Presentation)
- 31 A Justice, T Winkler, J Ngwa, J Czajkowski, K Young, D Hadley, NL Heard-Costa, **M Graff**, D Chasman, Q Qi, R Scott, A Mahajan, TS Ahluwalia, A Chu, MC Zilikins, T Haller, I Borecki, R Loos, KE North, TO Kilpeläinen, LA Cupples and the GIANT Consortium Genome-wide analysis of gene by smoking interaction on obesity phenotypes: the GIANT (Genetic Investigation of ANthropometric Traits) Consortium The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2014, San Francisco, CA (Oral Presentation)
- 30 K Young, D Hadley, A Justice, T Winkler, J Ngwa, J Czajkowski, NL Heard-Costa, **M Graff**, D Chasman, Q Qi, R Scott, A Mahajan, TS Ahluwalia, A Chu, MC Zilikins, T Haller, I Borecki, R Loos, KE North, TO Kilpeläinen, LA Cupples and the GIANT Consortium Influence of gene-by-smoking interaction on body fat distribution: the GIANT (Genetic Investigation of ANthropometric Traits) Consortium The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2014, San Francisco, CA (Oral Presentation)
- 29 S Yoneyama, **M Graff**, U Lim, J Gong, J Haessler, M Fornage, L Fernandez-Rhodes, C Isasi, L Aviles-Santa, P Buzkova, M Daviglius, Chris Haiman, Loic Le Marchand, F Schumacher, L Wilkens, C Kooperberg, S Buyske, TC Matise, R Li, L Hindorff, R Prentice, L Kuller, J Mason, K Mohlke, P Sethupathy, R MacKey, D Houston, CC Gu, G Ehret, KH Nguyen, R Cooper, CE Lewis, M Leppert, MR Irvin, PAGE Consortium, U Peters, KE North Fine mapping of body fat distribution loci in African American populations: The Population Architecture using Genomics and Epidemiology (PAGE) Study The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2014, San Francisco, CA (Poster Presentation)

### 2013

- 28 **M Graff**, TW Winkler, Z Kutalik, A Justice, L Barata, M Feitosa, S Chu, R Mägi, J Czajkowski, T Fall, Y Lu, TO Kilpeläinen, IM Heid, I Borecki, KE North, Z Kutalik, RJ Loos on behalf of the GIANT (Genetic Investigation of ANthropmetric Traits) Consortium Genome-wide interrogation for sex- and age -specific anthropometric trait loci in over 310,000 individuals The Obesity Society October 2013 Atlanta, GA (Oral Presentation)
- 27 TO Kilpeläinen, RA Scott, A Mahajan, F Xue, F Renström, **M Graff**, D, Hadley, T Workalemahu, M den Hoed, TW Winkler, A Chu, L Qi, PW Franks, K Monda, DI Chasman, KE North, LA Cupples, RJF Loos Interaction between genome-wide data and physical activity on body mass index – a meta-analysis of 109,924 individuals The American Society of Human Genetics October 2013 Boston, MA (Oral Presentation)
- 26 A Justice, TW Winkler, J Ngwa, K Young, D Hadley, **M Graff**, J Vink, L Xue, T Singh Ahluwalia, L Terho, RJ Strawbridge, MC Zillikens, MF Feitosa, NL Heard-Costa, JH Zhao, N Direk, H Tiemeier, H Jörgen Grabe, TB Harris, TO Kilpeläinen, IB Borecki, RJF Loos, KE North, LA Cupples, on behalf of the GIANT Consortium Genome-wide joint meta-analysis for interaction between genetic variants and smoking on waist circumference The American Society of Human Genetics, October 2013 Boston, MA (Oral Presentation)
- 25 **M Graff**, AS Richardson, KL Young, KL Mohlke, LA Lange, EM Lange, KM Harris, KE North, P Gordon-Larsen Obesity Susceptibility Loci and Longitudinal BMI from Adolescence to Young Adulthood in an Ethnically Diverse Cohort The American Heart Association EPI/PNAM, March 2013, New Orleans, LA (Poster presentation)

### 2012

- 24 **M Graff**, AS Richardson, KL Young, KL Mohlke, LA Lange, EM Lange, KM Harris, KE North, P Gordon-Larsen 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 October 2012 San Antonio, TX (Oral Presentation)
- 23 AS Richardson, KE North, **M Graff**, KL Young, LA Lange, EM Lange, KM Harris, P Gordon-Larsen 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 October 2012 San Antonio, TX (Oral Presentation)

- 22 Young, KL, **M Graff**, KE North, AS Richardson, J Bradfield, S Grant, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. Influence of SNPxSNP interaction on BMI in European American adolescents: Findings from the National Longitudinal Study of Adolescent Health The of American Society of Human Genetics November 2012 San Francisco, CA (Poster Presentation).
- 21 Gordon- Larsen, P, AS Richardson, **M Graff**, KL Young, KL Mohlke, EM Lange, LA Lange, KM Harris, KE North Established obesity loci and incident severe obesity risk: Findings from the National Longitudinal Study of Adolescent Health The Obesity Society October 2012 San Antonio, TX (Poster Presentation)
- 20 Young, KL, **M Graff**, KE North, A Richardson, KL Mohlke, LA Lange, EM Lange, KM Harris, P Gordon-Larsen. Interaction of smoking and genotype on adolescent BMI: Findings from the National Longitudinal Study of Adolescent Health. The Obesity Society October 2012 San Antonio, TX (Poster Presentation)
- 19 **M Graff**, KE North, KL Mohlke, LA Lange, EM Lange, CS Fox, LA Cupples, KM Harris, P Gordon-Larsen Effect Sizes of Established BMI Genetic Variants during Adolescence, a Vulnerable Period of Weight Gain The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2012, San Diego, CA (Oral and Poster presentations)
- 18 L Fernández-Rhodes, **M Graff**, S Liu, C Carlson, S Wassertheil-Smoller, M Neuhouser, A Reiner, C Kooperberg, E Rampersaud, JE Manson, L Kuller, BV Howard, HM Ochs-Balcom, KC Johnson, MZ Vitolins, L Sucheston, K Monda, KE North, Generalization of adiposity-related common genetic variants among US Hispanic women in WHI-SHARE The American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2012, San Diego, CA, (Poster presentations)
- 17 S Yoneyama, A Justice, K Monda, KE North, S Wassertheil-Smoller, M Neuhouser, E Rampersaud, S Liu, BV Howard, JE Manson, LH Kuller, C Kooperberg, A Reiner, C Carlson, and **M Graff** Genome Wide Association Study of Weight Change Among Post-Menopausal African Americans: The Women's Health Initiative Study American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Conference, March 2012, San Diego, CA, (Poster presentations)

#### 2011

- 16 **M Graff**, KE North, KL Mohlke, LA Lange, EM Lange, CS Fox, LA Cupples, KM Harris, P Gordon-Larsen Association between BMI variants previously identified in adult populations in association with adolescent BMI in an ethnically-diverse cohort The American Society and International Conference for Human Genetics, October 2011, Montreal, QC, Canada (Poster presentation)
- 15 **M Graff**, P Gordon-Larsen, J Ngwa, T Workalemahu, L Qi, T Esko, A Metspalu, N Amin, D Schlessinger, CS Fox, LA Cupples, S Berndt S, D Strachan, Teumer A, Voelzke H, Scheet H, C Schurmann C, RM Van Dam, KE North, JR Schaffer, ML Marazita, RJ Crout, CC White, CM Van Duijn A meta-analysis of genetic loci for BMI in adolescence The Obesity Society October 2011 Orlando, FL (Oral presentation)
- 14 **M Graff**, P Gordon-Larsen, CC White, J Ngwa, T Workalemahu, L Qi, T Esko, A Metspalu, N Amin, D Schlessinger, CS Fox, LA Cupples, S Berndt S, D Strachan, Teumer A, Voelzke H, Scheet H, C Schurmann C, RM Van Dam, KE North, JR Schaffer, ML Marazita, RJ Crout, CC White, CM Van Duijn The association between 32 common genetic BMI loci and longitudinal BMI across the transition from adolescence to young adulthood: a meta-analysis The Obesity Society October 2011 Orlando, FL (Poster presentation)

#### 2010

- 13 **M Graff**, P Gordon-Larsen, CC White, J Ngwa, T Workalemahu, T Esko, et al Genetic Epidemiology of BMI and BMI Change in the Transition from Adolescence to Young Adulthood Poster presentations for two conferences: (1) American Society for Human Genetics, Nov 2010, Washington, DC; and (2) International Society for Genetic Epidemiology, Oct 2010, Boston, MA
- 12 **M Graff**, KE North, N Franceschini, AP Reiner, M Feitosa, JJ Carr, P Gordon- Larsen, MKWojczynski, and I Borecki The interaction of PNPLA3 genotype and visceral adipose tissue with liver attenuation in European American participants of the NHLBI Family Heart Study The Obesity Society, Oct 2010, San Diego, CA
- 11 KE North, **M Graff**, N Franceschini, AP Reiner, M Feitosa, JJ Carr, P Gordon- Larsen, MKWojczynski, and I Borecki Sex and race differences in the prevalence of CT measured liver attenuation in European American and African American participants of the NHLBI Family Heart Study The Obesity Society, Oct 2010, San Diego, CA

## 2008

- 10 KS Borre, L Ertle, **M Graff** Dietary Adaptations, Food Security and Obesity among North Carolina Latino Farmworker Families Poster presentation, The American Anthropology Association, Nov 2008, San Francisco, CA
- 9 **M Graff**, U Ramakrishnan Beliefs about nutrition during pregnancy and lactation in rural Guatemalan women Oral presentation, The American Anthropology Association, Nov 2008, San Francisco, CA
- 8 **M Graff**, K Borre Variation in predictors of overweight in elementary school children in Eastern North Carolina Jean Mills Conference on Rural Health, Feb 2008, Greenville, NC

## 2005

- 7 HS Kahn, **M Graff**, P Zybert, AD Stein, LH Lumey A fingerprint marker from early gestation associated with diabetes in middle age: The Dutch Hunger Winter Families Study Poster presentation, Int Society for Dev Origins of Health and Disease (DOHAD), Nov 2005, Toronto, Canada
- 6 **M Graff**, HS Kahn, AD Stein, PA Zybert, LH Lumey Prenatal exposure to the Dutch Famine of 1944-1945 and fingerprint ridge-count gradients Poster presentation, Exp Biology, April 2005, San Diego, CA

## 2004

- 5 **M Graff**, KM Yount, and AD Stein 2004 Childbearing and fertility ideals and practices in rural Guatemalan women Oral presentation, CDC Maternal and Child Reproductive Health Conference, Dec 2004, Atlanta, GA
- 4 **M Graff**, AJ Conlisk-Sharma, R Martorell, and AD Stein. Early childhood nutrition and serum lipid levels in young Guatemalan adults Poster presentation, Exp Biology, April 2004, Washington, DC

## 2003

- 3 **M Graff**, AJ Conlisk-Sharma, AD Stein, and R Martorell Maternal nutrition status, birth size and lipid levels in young Guatemalan adults Poster presentation, Exp Biology, April 2003, San Diego, CA

## 2002

- 2 **M Graff**, E Kuklina, U Ramakrishnan, and R Martorell Birth size as a predictor of time that until an infant can sit without support in rural Guatemala. Poster presentation, Exp Biology, April 2002, New Orleans, LA

## 2000

- 1 **M Graff**, TD Thacher, PR Fischer, D Stadler, SD Pam, JM Pettifor, CO Isichei, and SA Abrams Calcium absorption in rachitic and non-rachitic Nigerian children Poster presentation, Exp Biology, April 2000, San Diego, CA

## **STUDENTS**

### Graduated

Anna Reussner Master's Thesis: Physical education models and undergraduate student exercise motivation in the United States and Germany (On committee- Global Health, defended April 19, 2016)

Natalia Petruski-Ivleva Dissertation Thesis: The association of habitual milk intake with the rate of cognitive decline, and risk of mild cognitive impairment and dementia (On committee- PhD, defended March 31, 2017)

Ann Von Holle Dissertation Thesis: Infant growth trajectories and dyslipidemia in adolescence (On committee- PhD Candidate Epidemiology, defended May 14, 2018)

Shelly Anne Love Dissertation Thesis: The Relationship of Central Adiposity and Cognitive Decline: The Atherosclerosis Neurocognitive Study." The attached proposal aims to examine associations of duration of adiposity, severity of adiposity, and combined severity and duration of adiposity with 20-year cognitive decline in adults from mid-to-late life (On committee- PhD Candidate Epidemiology, defended March 11, 2019)

Sachi Yoneyama Dissertation Thesis: Utility of insulin resistance and central adiposity measures and genetic etiologies of central adiposity among multi-ethnic populations (On committee- PhD Candidate Epidemiology)

Chani Hodonsky Dissertation Thesis: The genetics of Blood cell traits (On committee- PhD Candidate Epidemiology, defended July 2019)

Poojan Shrestha Dissertation Thesis: A Genome-Wide Association Study of Early Childhood Caries in a Multi-ethnic, Community-based Sample of Preschool-age Children. (Defended April 2023)

Daeun Kim Dissertation Thesis: Genetic underpinnings of the heterogenous impact of obesity on cardiovascular disease. (Defended December 2023)

Baiyu Qi: Pleiotropic Loci Underlying Addictive Behaviors and Body Mass Index: Evidence from Large Genome-Wide Association Studies (August 2025)

Alice Zhang: Genome-wide Association Study and Transcriptome-wide Association Study of Blood Pressure Traits in Hispanic/Latino Populations (August 2025)

### **Current**

Emily Drymeson: Identify and characterize metabolic mechanisms underlying AD.

Sarah Koenigsberg: Inflammatory mediators linking sleep and cardiometabolic disease

Moa Lee: Using genetics to inform lipoprotein (a) interventions

Jessica Sprinkes: An investigation of the plasma lipidome alterations that precede type 2 diabetes (T2D) and the influence of fatty acid intake: A Coronary Artery Risk Development in Young Adults (CARDIA) Study

Samson Okello: GENOME-WIDE DNA METHYLATION PATTERNS OF BLOOD PRESSURE TRAITS IN PEOPLE LIVING WITH AND WITHOUT HIV

Micah Hysong: Dissertation Thesis: under development (PRS, Social determinants of Health, All of US.)

Romaniya Voloshchuk: BIOLOGICAL AGING, LIFE-COURSE ADIPOSITY, AND HYPERTENSION: FINDINGS FROM A FILIPINO BIRTH COHORT LIVING THROUGH THE NUTRITION TRANSITION.

### **TEACHING – LECTURES AND MODULES**

**Graff M, October 2024: PheWAS (Phenome-Wide Association Study), Universidad Nacional Autónoma de México, Mexico City, Mexico**

**Graff M, June 2024: Colocalization, Universidad Nacional Autónoma de México, Mexico City, Mexico**

**Graff M, Sept 2023: Medelian Randomization, Universidad Nacional Autónoma de México, Mexico City, Mexico**

**Graff M, June 2023: Polygenic Risk Scores, Universidad Nacional Autónoma de México, Mexico City, Mexico**

**Graff M, Highland HM, Lab Instructional Modules, Spring 2024: Using PRS, RNSseq, Longitudinal analyses, SEM for genomics, Data cleaning, analyses related to OMICs**

**Graff M**, Highland HM, **Lab Instructional Modules, Spring 2023**: Using metabolomics, methylation, statistical modeling, gene expression analyses, Lifter, genetic correlations (analyses related to OMICs)

**Graff M**, Highland HM, **Lab Instructional Modules, Spring 2022**: Using metabolomics, methylation, mediation analyses, gene expression analyses, CHIP analyses, genetic correlations (analyses related to OMICs)

**Graff M**, Highland HM, **Lab Instructional Modules, Spring and Fall 2021**: Using linux, Slurm, running a GWAS, running a Gene-environment GWAS, Finemapping, Polygenic risk scores

**Graff M**, **Lab Instructional Modules, 2020**: Plink, Polygenic Risk Scores, SAIGE R package, SUGEN software, EasyQC/EasyStrata R packages

**Graff M**, Lecture for EPID 743, Genetic Epidemiology 2020: Polygenic Risk Scores

**Graff M**, Young, K, & North, K. Co-taught EPID 889 Advance Genetic Epidemiology module 2020: Web-based bioinformatics resources for genetic epidemiology findings.

Sofer T & **Graff M**. Co-taught a module for the 8<sup>th</sup> ACM Conference on Bioinformatics, Computational Biology, and Health Informatics. Washington DC, August 2018. Analysis of sequencing data and bioinformatic follow-up.

**Graff M**, Lecture for EPID 743, Genetic Epidemiology 2019: Gene Environment interactions.

**Graff M**, Lecture for EPID 743, Genetic Epidemiology 2018: Race and Ancestry.

**Graff M**, Lecture for EPID 743, Genetic Epidemiology 2018: Gene Environment interactions.

Sofer T, **Graff M**, & North K. Co-taught a module for the 22<sup>nd</sup> Summer Institute in Statistical Genetics (SISG) conference. Seattle, WA, July 2017. Module 12: Association Mapping Case Study using the Hispanic Community Health Study/Study of Latinos (HCHS/SOL) as a case study.

Young K & **Graff M**. Co-taught EPID 889 Advance Genetic Epidemiology module 2016: Web-based bioinformatics resources for genetic epidemiology findings.

**Graff M**, Lecture for EPID 743, Genetic Epidemiology 2016: Bioinformatics resources for genetic epidemiology findings.

**Graff M**, & S Yoneyama Lecture for EPID 743, Genetic Epidemiology 2015: Population Functional annotation of genetic variants.

Young, K, & **Graff M** Presented at the CPC Interdisciplinary Workshop 2012: Population Genetic Heterogeneity: Impact on Genetic Studies

**Graff M**, Young, K, & Justice AE Lecture for EPID 743, Genetic Epidemiology 2012: Hardy-Weinberg Equilibrium

**Graff M**. Lecture for EPID 743, Genetic Epidemiology 2011: Hardy-Weinberg Equilibrium

**Graff M**. Lecture for Nutr818, Nutritional Epidemiology 2011: Modeling Gene by Environment Interactions Fall 2013, Fall 2011

**Graff M** CPC Interdisciplinary Research Seminar 2010: Gene by Environment Interactions across the life course.

## GRANT SUPPORT

Other Support – Project/Proposal

### Active

**\*Title: Leveraging Hispanic/Latino diversity to map and characterize cardiovascular disease loci**

\*Major Goals: The goal of this grant is to study the diversity across Hispanic/Latino individuals and how genetic and social factors of cardiovascular risk influence disease.

\*Status of Support: Active

Project Number: R01 HL163262-01A1

Name of PD/PI: Graff, M (contact); Fernandez-Rhodes, L

\*Source of Support: NIH

\*Primary Place of Performance: The University of North Carolina at Chapel Hill, NC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 01/2023 – 12/2026

\* Total Award Amount (including Indirect Costs): \$2,977,946

**\*Title: Leveraging metabolic pathways and gene expression data to propel understanding of severe obesity in a vulnerable and understudied population**

\*Major Goals: To examine whole blood RNAseq data from >15,000 HL individuals and metabolomic data from >46,000 HL individuals to identify transcriptomic and metabolomic signals underlying severe obesity using ancestry-informed models and identify mechanisms and infer causal pathways underlying severe obesity.

\*Status of Support: Active

Project Number: R01-DK139598-01

Name of PD/PI: Gordon-Larsen, P; North, K; Below, J

\*Source of Support: NIH

\*Primary Place of Performance: The University of North Carolina at Chapel Hill, NC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 08/2024 – 05/2029

\*Total Award Amount (including Indirect Costs): \$3,448,235

**\*Title: Phenotypic consequences of lipoprotein(a) in diverse populations**

\*Major Goals: To assemble the largest and most ancestrally diverse consortium with validated Lp(a) measures and genotypic data, construct highly accurate Lp(a) polygenic risk scores (PRS) and project into diverse biobanks with dense genotypic and phenotypic data but no Lp(a) measurements, and estimate the causal effects of Lp(a) with a broad set of cardiovascular phenotypes.

\*Status of Support: Active

Project Number: 1R01HL172887-01

Name of PD/PI: Avery, C; Graff, M

\*Source of Support: NIH

\*Primary Place of Performance: The University of North Carolina at Chapel Hill, NC

Project/Proposal Start and End Date: (MM/YYYY) (if available): 12/2024 – 11/2028

\*Total Award Amount (including Indirect Costs): \$5,597,090

## PROFESSIONAL SERVICE

### University Service/ Cardiovascular Epidemiology

**2019-current** Genetic Epidemiology of Heart, Lung, and Blood Computational Laboratory,  
Co-lead

### Societies

**2017-2019** Obesity Society public affairs committee, member

### Invited Session Co-Chairman or speaker

**2018** Rachmiel Levine-Arthur Riggs Diabetes Research Symposium  
Talk: Genome-wide physical activity interactions in adiposity  
Invited speaker

**2017** North Coast Conference on Precision Medicine: Being Precise in Precision Medicine—Measuring  
Exposures in Diverse Populations.  
Talk: Harmonization and analysis approaches for gene-environment  
interaction studies  
Invited speaker

**2016** The Obesity Society Annual Conference  
Genes are only one piece of the puzzle: From universal to precision  
treatment for weight management, co-chairman

**2015** American Society of Human Genetics Conference  
Session on Gene-Environment Interaction, co-chairman

**2013** The Obesity Society Annual Conference  
Session on Gene-Environment Interaction, co-chairman

### Invited Lecture

**2024-June** Taught a module on colocalization for the University of Mexico Genetic Epidemiology program.

**2023-Sept** Taught a module on mendelian randomization for the University of Mexico Genetic Epidemiology  
program.

**2023-June** Taught a module on polygenic scores for the University of Mexico Genetic Epidemiology  
program.

**2017-July** Co-taught a module for the 22<sup>nd</sup> Summer Institute in Statistical Genetics (SISG) conference.

## Invited Manuscript Review

### Journals

*Nature Communications*  
*European Journal of Human Genetics*  
*Frontier Genetics*  
*Biomed Central Genetics*  
*Human Molecular Genetics*  
*Plos One*  
*Scientific Reports*  
*Diabetes Metabolism Research and Reviews*  
*International Journal of Obesity*  
*European Journal of Obesity*  
*European Journal of Nutrition*  
*Obesity*  
*Reproduction*  
*Pediatric Obesity*

### Studies

PAGE Study; HCHS/SOL

## COMMUNITY SERVICE

2021-Current Women Relief Society Organization, President  
2019-2021 Women Relief Society Organization, Counselor  
2015-2019 Children's primary teacher

## PROFESSIONAL DEVELOPMENT

### Postdoctoral Courses

Spring 2021	Introduction to Python (GNET742) Dept of Genetics, UNC, Chapel Hill, NC
Fall 2012	Advanced Genetic Epidemiology- High Throughput Data Analysis (EPID889) Dept of Epidemiology, UNC, Chapel Hill, NC
October 2012	Introduction to R Odum Institute, Chapel Hill, NC
March 2012	The Genetics Of the Peoples Of African And the Transatlantic African Diaspora Conference Friday Education Center, Chapel Hill, NC
Feb 2012	Minority Health Conference Friday Education Center, Chapel Hill, NC
Spring 2010	Genetic Epidemiology (EPID 229; now EPID 743) Dept of Epidemiology, UNC, Chapel Hill, NC
July 2010	Ethics Workshop Fedex Global Education Center, Chapel Hill, NC

- Fall 2009      Advanced Genetic Epidemiology (EPID 690)  
                    Dept of Epidemiology, UNC, Chapel Hill, NC
- July 2009      Structural Equation Modeling Workshop,  
                    Odum Institute, Chapel Hill, NC
- April 2009     Introduction to STATA,  
                    Odum Institute, Chapel Hill, NC
- October 2008   Jean Mills Health Symposium: empowering individuals to take responsibility for their own health  
                    Greenville Convention Center, Greenville, NC