

# LINDSAY FERNÁNDEZ-RHODES, PHD

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College of Health and Human Development at the Pennsylvania State University  
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## EDUCATION

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### PhD in Epidemiology

2016

*University of North Carolina at Chapel Hill, Gillings School of Global Public Health*

GRADUATE CERTIFICATE: Global Health

DOCTORAL PRACTICA: 1) Mammography Surveillance in Ensenada, México: A Pilot Study of Victoria Champion's Health Behavior Model for Mammography Questionnaire, 2) Healthy Native North Carolinians: Insight into the Internal Evaluation and Planning of a Community-Oriented Research Project

THESIS: Genomics and Epidemiology: Diverse Measures and Populations in the Trans-Ethnic Fine-Mapping of Genetic Loci for Body Mass Index

### MSPH in Epidemiology

2011

*University of North Carolina at Chapel Hill, Gillings School of Global Public Health*

MASTERS PRACTICUM: Assessing the Health-Related Concerns and Behaviors of Spanish- and English-Proficient Migraine Sufferers

MASTERS PAPER: Obesity-Related Single Nucleotide Polymorphisms and Age at Menarche in the ReproGen Consortium

### BS in Biology

2007

*University of North Carolina at Chapel Hill, College of Arts and Sciences*

MINORS: Chemistry and German Language

SCHOLARSHIP: James M. Johnston Honorary Scholar and Transatlantic Science Student Exchange Student at Friedrich Schiller University in Jena, Germany

THESIS & COMMENDATION IN RESEARCH: Experiments in the Role of Inflammatory Cytokines on Norepinephrine Reactivity in Mouse Dorsal Root Ganglion Neurons

## PROFESSIONAL EXPERIENCE

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### Assistant Professor in Biobehavioral Health · University Park, PA

2018-pres.

*The Pennsylvania State University, Department of Biobehavioral Health*  
Epidemiology and Genetics across Populations & Societies Lab

### Postdoctoral Scholar at the Carolina Population Center · Chapel Hill, NC

2016-2018

*University of North Carolina at Chapel Hill, Department of Epidemiology*  
Bio-Social Integration in Epidemiology, Immigration and Health

### Research Assistant in Epidemiology · Chapel Hill, NC

2009-2016

*University of North Carolina at Chapel Hill, Gillings School of Global Public Health*

Cardiovascular Disease Genetic Epidemiology, Hispanic/Latino Anthropometry Consortium

### Predocorial Fellow in Epidemiology · Chapel Hill, NC

2010-2012

*National Heart Lung and Blood Institute, National Research Service Award*

Cardiovascular Disease Epidemiology Program

**Post-baccalaureate Intramural Research Training Award Fellow** · Bethesda, MD 2007-2009  
*National Institute of Neurological Diseases and Stroke*  
Neurogenetics Branch

**Laboratory Technician in Electrophysiology** · Chapel Hill, NC 2004-2007  
*University of North Carolina at Chapel Hill, Medical School*  
Department of Cell Biology and Physiology

**Intern with Educational Programmes Abroad** · Bonn, Germany 2005  
*University of Bonn, Department of Molecular Neurobiology and the House for Experimental Therapy*

## PEER-REVIEWED PUBLICATIONS

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<http://www.ncbi.nlm.nih.gov/sites/myncbi/lindsay.fernandez-rhodes.1/bibliography/49407091/public/?sort=date&direction=ascending>

30. INVITED REVIEW: Young KL, Graff M, **Fernández-Rhodes L**, North KE. Genetics of Obesity in Diverse Populations. *Curr Diab Rep*. 2018; 18(12):145. *PMID: 30456705*.
29. **Fernández-Rhodes L\***, Howard AG\*, Graff M, Isasi CR, Highland HM, Young KL, Parra E, Below J, Qi Q, Kaplan RC, Justice AE, Papanicolaou G, Laurie CC, Grant SFA, Haiman C, Loos RJF, North KE. Complex Pathways between Self-Reported Weight and Diabetes Status Explain Apparent Pleiotropy at TCF7L2 in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *BMC Obesity*. 2018 Oct 2;5:26. *PMCID: PMC6167893*. \***Co-first authors**.
28. Justice AE, Howard AG, **Fernández-Rhodes L**, Graff M, Tao R, North KE. Direct and indirect genetic effects on triglycerides through Omics and correlated phenotypes. *BMC Proc*. 2018 Sept 17;12(Suppl 9):22. *PMCID: PMC6157130*.
27. **Fernández-Rhodes L**, Howard AG, Tao R, Young KL, Graff M, Aiello AE, North KE, Justice AE. Characterization of the Contribution of Shared Environmental and Genetic Factors to Metabolic Syndrome Methylation Heritability and Familial Correlations. *BMC Genet*. 2018 Sept 17;19(Suppl 1):69. *PMCID: PMC6157030*.
26. **Fernández-Rhodes L**, Malinowski J, Wang Y, Tao R, Pankratz N, Jeff JM, Yoneyama S, Carty C, Setiawan VW, Le Marchand L, Haiman C, Corbett S, Demerath E, Heiss G, Gross M, Buzkova P, Crawford DC, Hunt SC, Rao DC, Schwander K, Chakravarti A, Gottesman O, Abul-Husn NS, Bottinger EP, Loos RJF, Raffen L, Yao J, Guo X, Bielinski SJ, Rotter JI, Vaidya D, Chen Y-DI, Casteñada SF, Daviglus M, Kaplan R, Talavera GA, Ryckman KK, Peters U, Ambite JL, Hindorff L, Kooperberg C, Matise T, Franceschini N, North KE. Trans-ethnic genome-wide association study and fine-mapping of ages at menarche and natural menopause loci in more than 45,000 women from the multi-ethnic Population Architecture using Genomics and Epidemiology (PAGE) Study. *PloS One*. 2018 Jul 25; 13(7):e0200486. *PMCID: PMC6059436*.
25. Ward JB, Vines AI, Haan MN, **Fernández-Rhodes L**, Miller E, Aiello AE. Spanish Language Use Across Generations and Depressive Symptoms Among US Latinos. *Child Psychiatry Hum Dev*. 2018 Jun [Epub ahead of print]. *PMID: 29943348*.
24. Gong J, Nishimura K, **Fernandez-Rhodes L**, Haessler J, Bien S, Graff M, Lim U, Lu Y, Gross M, Fornage M, Yoneyama S, Isasi C, Buzkova P, Daviglus ML, Lin D, Tao R, Goodloe R, Bush W, Farber-Eger E, Boston J, Dilks H, Ehret G, Gu C, Lewis C, Nguyen K, Cooper R, Leppert M, Irvin M, Bottinger E, Wilkens L, Haiman C, Park L, Monroe K, Cheng I, Stram D, Carlson C,

Jackson R, Kuller L, Houston D, Kooperberg C, Buyske S, Hindorff L, Crawford D, Loos R, Le Marchand L, Matise T, North K, Peters U. Trans-Ethnic Analysis of MetaboChip Data Identifies Two New Loci Associated with BMI. *IJO*. 2018 Mar; 42(3):384-390. *PMCID: PMC876082*.

23. Martin CL, Haan MN, **Fernandez-Rhodes L**, Lee A, Aiello AE. Association Between Immigration History and Inflammatory Marker Profiles among Mexican Americans. *Biodemography Soc Biol*. 2018 Jan-Mar;64(1):30-42. *PMCID: PMC6075719*.
22. **Fernández-Rhodes L**, Robinson WR, Sotres-Alvarez D, Franceschini N, Castañeda SF, Buelna C, Moncrieft A, Llabre M, Daviglius ML, Qi Q, Agarwal A, Isasi CR, Smokowski P, Gordon-Larsen P, and North KE. The Accuracy of Self-Reported Weight in a Diverse Population-Based Sample of Hispanic/Latino Adults from Four Urban United States Communities: the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *Epidemiology*. 2017 Nov;28(6):847-853. *PMCID: PMC5617765*.
21. Bien S, Pankow JS, Haessler J, Lu K, Pankratz N, Tamuno A, Rohde R, Carlson C, Schumacher FR, Bůžková P, Daviglius M, Lim U, Li R, Fornage M, **Fernandez-Rhodes L**, Ambite JL, Aviles-Santa L, Buyske S, Franceschini N, Gross M, Graff M, Isasi C, Kuller LH, Manson J, Matise T, Prentice R, Wilkens L, Yoneyama S, Haiman CA, Hindorff LA, Le Marchand L, North KE, Loos R, Peters U, Kooperberg C. Population Architecture using Genomics and Epidemiology (PAGE): Transethnic insight on the genetics of glycemic traits. *Diabetologia*. 2017 Sept 13. [Epub ahead of print]. *PMCID: PMC918310*.
20. Day FR, Thompson DJ, Helgason H, Chasman DI, Finucane H, Sulem P, Ruth KS, Whalen S, Sarkar AK, Albrecht E, Altmaier E, Amini M, Barbieri CM, Boutin T, Campbell A, Demerath E, Giri A, He C, Hottenga JJ, Karlsson R, Kolcic I, Loh PR, Lunetta KL, Mangino M, Marco B, McMahon G, Medland SE, Nolte IM, Noordam R, Nutile T, Paternoster L, Perjakova N, Porcu E, Rose LM, Schraut KE, Segrè AV, Smith AV, Stolk L, Teumer A, Andrulis IL, Bandinelli S, Beckmann MW, Benitez J, Bergmann S, Bochud M, Boerwinkle E, Bojesen SE, Bolla MK, Brand JS, Brauch H, Brenner H, Broer L, Brüning T, Buring JE, Campbell H, Catamo E, Chanock S, Chenevix-Trench G, Corre T, Couch FJ, Cousminer DL, Cox A, Crisponi L, Czene K, Davey Smith G, de Geus EJCN, de Mutsert R, De Vivo I, Dennis J, Devilee P, Dos-Santos-Silva I, Dunning AM, Eriksson JG, Fasching PA, **Fernández-Rhodes L**, et al. Genomic analyses identify hundreds of variants associated with age at menarche and support a role for puberty timing in cancer risk. *Nat Genet*. 2017. *PMCID: PMC5841952*.
19. **Fernández-Rhodes L**, Gong J, Haessler J, Franceschini N, Graff M, Nishimura KK, Wang Y, Highland HM, Yoneyama S, Bush WS, Goodloe R, Ritchie MD, Crawford D, Gross M, Fornage M, Buzkova P, Tao R, Isasi C, Avilés-Santa L, Daviglius M, Mackey RH, Houston D, Gu CC, Ehret G, Nguyen KH, Lewis CE, Leppert M, Irvin MR, Lim U, Haiman CA, Le Marchand L, Schumacher F, Wilkens L, Lu Y, Bottinger EP, Loos RJ, Sheu WH, Guo X, Lee WJ, Hai Y, Hung YJ, Absher D, Wu IC, Taylor KD, Lee IT, Liu Y, Wang TD, Quertermous T, Juang JJ, Rotter JI, Assimes T, Hsiung CA, Chen YI, Prentice R, Kuller LH, Manson JE, Kooperberg C, Smokowski P, Robinson WR, Gordon-Larsen P, Li R, Hindorff L, Buyske S, Matise TC, Peters U, North KE. Trans-ethnic fine-mapping of genetic loci for body mass index in the diverse ancestral populations of the Population Architecture using Genomics and Epidemiology (PAGE) Study reveals evidence for multiple signals at established loci. *Hum Genet*. 2017. *PMID: 28391526*. *PMCID: PMC5485655*.
18. **Fernández-Rhodes L**, Hodonsky CJ, Graff M, Love SM, Howard AG, Seyerle AA, Avery CL, Chittoor G, Franceschini N, Voruganti VS, Young K, O'Connell JR, North KE, Justice AE. Comparison of 2 models for gene-environment interactions: an example of simulated gene-

medication interactions on systolic blood pressure in family-based data. *BMC Proc.* 2016;9 Suppl 8:S52. *PMCID: PMC5133512.*

17. Justice AE, Howard AG, Chittoor G, **Fernandez-Rhodes L**, Graff M, Voruganti VS, Diao G, Love SM, Franceschini N, O'Connell JR, Avery CL, Young KL, North KE. Genome-Wide Association of Trajectories of Systolic Blood Pressure Change. *BMC Proc.* 2016;9 Suppl 8:S44. *PMCID: PMC5133524.*
16. Yoneyama S, Yao J, Guo X, **Fernandez-Rhodes L**, Lim U, Boston J, Buzková P, Carlson CS, Cheng I, Cochran B, Cooper R, Ehret G, Fornage M, Gong J, Gross M, Gu CC, Haessler J, Haiman CA, Henderson B, Hindorff LA, Houston D, Irvin MR, Jackson R, Kuller L, Leppert M, Lewis CE, Li R, Le Marchand L, Matisse TC, Nguyen KD, Chakravarti A, Pankow JS, Pankratz N, Pooler L, Ritchie MD, Bien SA, Wassel CL, Chen YD, Taylor KD, Allison M, Rotter JI, Schreiner PJ, Schumacher F, Wilkens L, Boerwinkle E, Kooperberg C, Peters U, Buyske S, Graff M, North KE. Generalization and fine mapping of European ancestry-based central adiposity variants in African ancestry populations. *Int J Obes.* 2016;41(2):324-31. *PMCID: PMC5296276.*
15. Conomos MP, Laurie CA, Stilp A, Gogarten S, McHugh C, Sofer T, **Fernandez-Rhodes L**, Justice A, Graff M, Seyerle A, Avery C, Taylor K, Rotter G, Talavera G, Daviglius M, Smoller S, Schneiderman N, Heiss G, Kaplan R, Kerr K, Browning S, Browning B, Weir BS, Avilés-Santa L, Papanicolaou G, Szpiro A, North K, Rice K, Thornton T, Laurie CC. Genetic diversity and association studies in U.S. Hispanic/Latino populations: Applications in the Hispanic Community Health Study/Study of Latinos. *Am J Hum Genet.* 2016;98(1):165-84. *PMCID: PMC4716704.*
14. Lin D, Tao R, Kalsbeek WD, Zeng D, Gonzalez F 2nd, **Fernandez-Rhodes L**, Graff M, Koch GG, North KE, and Heiss G. Genetic Association Analysis Under Complex Survey Sampling: The Hispanic Community Health Study/Study of Latinos. *Am J Hum Genet.* 2014;95(6):675-88. *PMCID: PMC4259979.*
13. Harris-Love MO, **Fernández-Rhodes L**, Joe G, Shrader JA, Kokkinis A, La Pean Kirschner A, Auh A, Chen C, Li L, Levy E, Davenport TE, DiProspero NA, and Fischbeck KH. Assessing function and endurance in adults with spinal and bulbar muscular atrophy: validity of the Adult Myopathy Assessment Tool. *Rehabilitation Research and Practice.* 2014;2014:873872. *PMCID: PMC4026974.*
12. Gong J, Schumacher F, Lim U, Hindorff LA, Haessler J, Buyske S, Carlson CS, Rosse S, Buzkova P, Fornage M, Gross M, Pankratz N, Pankow JS, Schreiner PJ, Cooper R, Ehret G, Gu CC, Houston D, Irvin MR, Jackson R, Kuller L, Henderson B, Cheng I, Wilkens L, Leppert M, Lewis CE, Li R, Nguyen KD, Goodloe R, Farber-Eger E, Boston J, Dilks HH, Ritchie MD, Fowke J, Pooler L, Graff M, **Fernandez-Rhodes L**, Cochrane B, Boerwinkle E, Kooperberg C, Matisse TC, Le Marchand L, Crawford DC, Haiman CA, North KE, Peters U. Fine Mapping and Identification of BMI Loci in African Americans. *Am J Hum Genet.* 2013;93(4):661-71. *PMCID: PMC3791273.*
11. Graff M\*, **Fernández-Rhodes L\***, Rasmuss-Torvik L, Allison M, Liu S, Carlson C, Wassertheil-Smoller S, Neuhouser M, Reiner A, Kooperberg C, Rampersaud E, Manson JE, Kuller L, Howard BV, Ochs-Balcom HM, Johnson KC, Vitolins MZ, Sucheston L, Monda K, North KE. Generalization of adiposity-related common genetic variants among U.S. Hispanic women in WHI-SHARe. *Nutr Diabetes.* 2013;3:e85. *PMCID: PMC3759132.* \*Co-first authors.

10. Fesinmeyer MD, North KE, Ritchie MD, Lim U, Franceschini N, Wilkens LR, Gross MD, Buzkova P, Glenn K, Quibrera PM, **Fernández-Rhodes L**, Li Q, Fowke JH, Li R, Carlson CS, Prentice RL, Kuller LH, Manson JE, Matise TC, Cole SA, Chen CTL, Howard BV, Kolonel LN, Henderson BE, Monroe KR, Crawford DC, Hindorff LA, Buyske S, Haiman CA, Le Marchand L, Peters U. Genetic risk factors for body mass index and obesity in an ethnically diverse population: results from the PAGE Study. *Obesity*. 2013;21(4):835-46. *PMCID: PMC3482415*.
9. **Fernández-Rhodes L**, Demearath EW, Cousminer DL, Tao R, Dreyfus JG, Esko T, Smith AV, Gudnason V, Harris TB, Launer L, McArdle PF, Yerges-Armstrong LM, Elks CE, Strachan DP, Kutalik Z, Vollenweider P, Feenstra B, Boyd HA, Metspalu A, Mihailov E, Broer L, Zillikens MC, Oostra B, van Duijn CM, Lunetta KL, Perry JRB, Murray A, Koller DL, Lai D, Corre T, Toniolo D, Albrecht E, Stöckl D, Grallert H, Gieger C, Hayward C, Polasek O, Rudan I, Wilson JF, He C, Kraft P, Hu FB, Hunter DJ, Hottenga JJ, Willensen G, Boomsma DI, Byrne EM, Martin NG, Montgomery GM, Warrington NM, Pennell CE, Stolk L, Visser JA, Hofman A, Uitterlinden AG, Rivadeneira F, Lin P, Fisher SL, Bierut LJ, Crisponi L, Porcu E, Mangino M, Zhai G, Spector TD, Buring JE, Rose LM, Ridker PM, Poole C, Hirschhorn JN, Murabito JM, Chasman D, Widen E, North KE, Ong KK, Franceschini N. Association of adiposity-related genetic variants with menarche timing in 92,105 women of European descent. *Am J Epidemiol*. 2013;178(3):451-60. *PMCID: PMC3816344*.
8. Carty CL, Spencer KL, Setiawan VW, **Fernández-Rhodes L**, Malinowski J, Buyske S, Young A, Jorgensen NW, Cheng I, Brown-Gentry K, Goodloe R, Parikh NI, Henderson B, Le Marchand L, Wactawski-Wende J, Fornage M, Matise TC, Hindorff LA, Arnold AM, Haiman CA, Franceschini N, Peters U, Crawford DC. Replication of GWAS loci for ages at menarche and menopause in the multi-ethnic Population Architecture using Genomics and Epidemiology (PAGE) Study. *Hum Repro*. 2013;28(6):1695-706. *PMCID: PMC3657124*.
7. Spencer KL, Malinowski J, Carty CL, Franceschini N, **Fernández-Rhodes L**, Wu C, Ritchie MD, Haiman C, Wilkens L, Young A, Matise TC, Carlson CS, Brennan K, Park A, Rajkovic A, Hindorff LA, Ramos E, Buyske S, Crawford DC. 2013. Genetic variation and age at natural menarche and menopause in African American women from the Population Architecture using Genomics and Epidemiology (PAGE) Study. *PLoS One*. 2013;8(2):e55258. *PMCID: PMC3570525*.
6. Dreyfus J, Lutsey PL, Huxley R, Pankow JS, Selvin E, **Fernández-Rhodes L**, Franceschini N, Demerath EW. Age at menarche and risk of type 2 diabetes in the Atherosclerosis Risk in Communities (ARIC) study. *Diabetologia*. 2012;55(9):2371-80. *PMCID: PMC3690318*.
5. He C, Chasman DI, Dreyfus J, Hwang SJ, Ruiter R, SannaS, Buring JE, **Fernández-Rhodes L**, Franceschini N, Hankinson SE, Hofman A, Lunetta KL, Palmieri G, Porcu E, Rivadeneira F, Rose LM, Splansky GL, Stolk L, Uitterlinden AG, Chanock SJ, Crisponi L, Demerath EW, Murabito JM, Ridker PM, Stricker BH, Hunter DJ. Reproductive aging associated common genetic variants and the risk of breast cancer. *Breast Cancer Res*. 2012;14(2):R54. *PMCID: PMC3446388*.
4. Chen CT, **Fernández-Rhodes L**, Brzyski RG, Carlson CS, Chen Z, Heiss G, North KE, Woods NF, Rajkovic A, Kooperberg C, Franceschini N. Replication of Loci Influencing Ages at Menarche and Menopause in Hispanic Women: the Women's Health Initiative SHARe Study. *Hum Mol Genet*. 2012;21(6):1419-32. *PMCID: PMC3284121*.
3. **Fernández-Rhodes LE**, Kokkinis AD, White MJ, Watts CA, Auh S, Jeffries NO, Shrader JA, Lehky TJ, Li L, Ryder JE, Levy EW, Solomon BI, Harris-Love MO, La Pean A, Schindler AB, Chen C, Di Prospero NA, Fischbeck KH. Efficacy and safety of dutasteride in patients with spinal

and bulbar muscular atrophy: a randomised placebo-controlled trial. *Lancet Neurology*. 2011;10(2): 140-7. *PMCID: PMC3056353*.

2. **Rhodes LE**, Freeman BK, Kokkinis AD, La Pean S, Chen C, Lehky TJ, Shrader JA, Levy EW, Harris-Love M, Di Prospero NA, Fischbeck KH. Clinical features of spinal and bulbar muscular atrophy. *Brain*. 2009;132 (Pt 12):3242-51. *PMCID: PMC2792370*.
1. Lehky TJ, Chen CJ, di Prospero NA, **Rhodes LE**, Fischbeck K, Floeter MK. Standard and modified statistical MUNE evaluations in spinal-bulbar muscular atrophy. *Muscle Nerve*. 2009;40(5):809-14. *PMCID: PMC2763967*.

## **MANUSCRIPTS UNDER REVIEW & INVITED REVISIONS**

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2. Wojcik G, Graff M, Nishimura KK, Tao R, Haessler J, Gignoux CR, Highland HM, Patel YM, Sorokin EP, Avery CL, Belbin GM, Bien SA, Cheng I, Hodonsky CJ, Huckins LM, Jeff J, Justice AE, Kocarnik JM, Lim U, Lin BM, Lu Y, Nelson SC, Park S-SL, Preuss MH, Richard MA, Schurmann C, Setiawan VW, Vah Ki, Vishnu A, Verbanck M, Walker R, Young KL, Zubair N, Ambite JL, Boerwinkle E, Bottinger E, Bustamante CD, Caberto C, Conomos MP, Deelman E, Do R, Doheny K, **Fernandez-Rhodes L**, Fornage M, Heiss G, Hindorff LA, Jackson RD, James R, Laurie CA, Laurie CC, Li Y, Lin D-Y, Nadkarni G, Pooler LC, Reiner AP, Romm J, Sabati C, Sheng X, Stahl EA, Stram DO, Thornton TA, Wassel CL, Wilkens LR, Yoneyama S, Buyske S, Haiman C, Kooperberg C, Le Marchand L, Loos RJF, Matise TC, North KE, Peters U, Kenny EE, Carlson CS. Genetic Diversity Turns a New PAGE in Our Understanding of Complex Traits. Under invited revisions for *Nature*.
1. Al Vines, E Cordoba, C Douglas, JB Ward, **L Fernández-Rhodes**, TM To, MN Haan, AE Aiello. Cultural Factors across the Life Course and Perceived Everyday Discrimination among Latinos. Under review at the *Journal of Racial Ethnic Health Disparities*.

## **ORAL PRESENTATIONS AT CONFERENCES**

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13. Annual Meetings of the Pediatric Academic Society and Society for Epidemiologic Research, The Effect of the 287(g) Immigration Program on Pediatric Hospitalizations for Ambulatory Sensitive Conditions in North Carolina. **L Fernandez-Rhodes** and MJ White, to be held April-May and June 2019, Baltimore, MD and Minneapolis, MN.
12. Annual Meeting of the Obesity Society, Intergenerational Educational Attainment on Obesity and Metabolic Syndrome in United States Latinos. E Crenshaw\*, **L Fernandez-Rhodes**, MN Haan, AE Aiello, November 2018, Nashville, Tennessee, USA.  
\*Biostatistics BS Student under the supervision of L Fernandez-Rhodes (BIOS 540 in Spring 2018) and the Summer Undergraduate Research Fellowship (Summer 2018).
11. Annual Meeting of the Integrating Genetics into the Social Sciences and the Interdisciplinary Association for Population Health Science. Socioeconomic Adversity, Methylation and Obesity in the Atherosclerosis Risk in Communities Study. **L Fernandez-Rhodes**, Y Wang, AE Justice, KE North, October 2018 in Boulder, Colorado and Washington, District of Columbia, USA.
10. Annual Meeting of the Society for Epidemiologic Research, Socioeconomic Mobility and Offspring Type 2 Diabetes: A Case for a Multi-Generational View on Health. **L Fernandez-Rhodes**, CL Martin, P Gordon-Larsen, MN Haan, AE Aiello, June 2018, Baltimore, Maryland, USA.

9. Annual Meeting of the Society for Epidemiologic Research, Association of immigration history and inflammatory marker profiles among older adult Mexican Americans. CL Martin, MN Haan, **L Fernandez-Rhodes**, A Lee, AE Aiello, June 2018, Baltimore, Maryland, USA.
8. Annual Integrating Genetics and Social Sciences Conference, A Genetic Risk Score for Increased Body Mass Index and Its Interaction with Acculturation to the United States among Hispanic/Latino Adults from the Hispanic Community Health Study/Study of Latinos (HCHS/SOL), **Lindsay Fernández-Rhodes**, Allison E. Aiello, Kari E. North, on behalf of their HCHS/SOL coauthors, October 2017, Boulder, Colorado.
7. Annual Meeting of the Society for Epidemiologic Research, Intergenerational educational attainment and varying measures of obesity in Latino adults living in the United States, **Lindsay Fernández-Rhodes**, Julia Ward, Lydia Feinstein, Adina Zeki-Al-Hazzouri, Jaqueline Torres, Penny Gordon-Larsen, Mary N Haan, Allison E Aiello, June 2017, Seattle, Washington.
6. Genetic Analysis Workshop 20, Comparison of Approaches to Characterizing Potential Epigenetic Inheritance at Methylation Loci Previously Associated with Metabolic Syndrome using Family-Based Data from the Genetics of Lipid Lowering Drugs and Diet Network (GOLDN) Study, **Lindsay Fernández-Rhodes**, Annie Green Howard, Ran Tao, Kristin Young, Allison E Aiello, Kari E North, Anne E Justice, March 2017, San Diego, California.
5. Genetic Analysis Workshop 19, Comparison of Gene-Environment Methods using Simulated GAW19 Family-Based Data, **Lindsay Fernández-Rhodes**, Fernández-Rhodes L, Graff M, Hodonsky CJ, Love SM, Seyerle AA, Avery CL, Chittoor G, Franceschini N, Howard AG, Voruganti VS, Young K, North KE, Justice A, August 2014, Vienna, Austria.
4. Dissertation Workshop Preceding the Annual Meeting of the Society of Epidemiologic Research, Acculturation and Genetic Susceptibility to Adulthood Weight Gain among US Hispanic/Latinos, **Lindsay Fernández-Rhodes**, June 2014, Seattle, Washington.
3. Population Architecture using Genomics and Epidemiology (PAGE) Study Meetings, Associations of BMI genetic loci with age of menarche in PAGE, and Acculturation and its interaction with genetic susceptibility for obesity among U.S. Hispanics/Latinos, **L Fernández-Rhodes** on behalf of the Reproductive and Adiposity PAGE Working Groups, October 2012, Washington, District of Columbia.
2. Adiposity Working Group: CHARGE Investigators Meeting, Associations of BMI SNPs with Age at Menarche, **L Fernández-Rhodes**, on behalf of the ReproGen Consortium, May 2012, Reykjavik, Iceland.
1. National Heart Lung and Blood Institute Cardiovascular, Epidemiology, Biostatistics, and Prevention Trainee Session, FTO variant and age at menarche simultaneously predict measures of obesity in young and late adulthood, **Lindsay Fernández-Rhodes**, Ellen Demerath, Jill Dreyfus, Kari E. North, Nora Franceschini, March 2011, Atlanta, Georgia.

#### **SELECT POSTER PRESENTATIONS AT CONFERENCES**

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13. Annual Meeting of the Society for Epidemiologic Research, Citizenship and Immigration Status on the Burden of Cardiometabolic Risk Factors among Hispanic/Latino Adults Living in the United States. **L Fernandez-Rhodes**, CR Isasi, LC Gallo, K Perreira, June 2018, Baltimore, Maryland, USA.

12. Population Association of America Annual Meeting. Demographic, Sociocultural, Behavioral and Health-Related Factors and Adulthood and Migration-Related Weight Gain Among Hispanic/Latino Adults: Results from the Hispanic Community Health Study / Study of Latinos (HCHS/SOL). **L Fernandez-Rhodes**, EK Lodge\*, D Sotres-Alvarez, N Franceschini, MM Llabre, EM Arredondo, LC. Gallo, W Arguelles, ML. Daviglius, CR. Isasi, P Smokowski, P Gordon-Larsen, AE Aiello, KPerreira, KE North, to be held April 2018, Denver, Colorado, USA. \*MD/PhD Student co-mentored by L Fernandez-Rhodes and AE Aiello.
  
11. The Obesity Society Annual Meeting. Genome-wide association of methylation with central adiposity and body fat distribution. Anne E Justice, **Lindsay Fernandez-Rhodes**, Megan Grove, Ching-Ti Liu, Adrienne Cupples, Weihua Guan, Jan Bressler, Myriam Fornage, Eric Boerwinkle, Yun Li, Ellen Demerath, Eric Whitsel, Penny Gordon-Larsen, Annie Green Howard, Kari E North, October-November 2017, National Harbor, Maryland, USA.
  
10. Annual Meeting of the Society for Epidemiologic Research, Intergenerational language trajectories and depressive symptoms among US Latinos. Julia Ward\*, **Lindsay Fernandez-Rhodes**, Mary N Haan, Allison E Aiello, June 20-23, 2017, Seattle, Washington, USA. \*PhD Student completing her dissertation with AE Aiello.
  
9. American Heart Association Epi/Lifestyle Scientific Sessions, The Association of Common Genetic Loci with Childhood Obesity in 1,612 Hispanic/Latino Children and Adolescents from across the United States and Mexico, **Lindsay Fernandez-Rhodes**, Mariaelisa Graff, Jonathan Bradfield, Yujie Wang, Esteban J. Parra, Miguel Cruz, Astride Audirac, Bertha Hidalgo, Heather Highland, Anthony G. Comuzzie, Nancy F. Butte, Shelly A. Cole, V. Saroja Voruganti, Chris Haiman, Ruth F. Loos, Struan F. A. Grant, Kari E. North, March 7-10, 2017, Portland, Oregon, USA. [Abstract P140, Circulation]
  
8. Annual Meeting of The Obesity Society, A Search for Multiethnic Genetic Markers of Anthropometric traits among Ethnically Diverse US Populations in Population Architecture using Genomics and Epidemiology (PAGE) Consortium, Misa Graff, **Lindsay Fernandez-Rhodes**, and other PAGE Consortium Obesity Working Group coauthors, October 31-November 4, 2016, New Orleans, Louisiana, USA.
  
7. American Society of Human Genetics, Exploring genetic variants for anthropometric traits in Hispanic/Latino populations, Mariaelisa Graff, **Lindsay Fernandez-Rhodes**, Heather M. Highland, et al., October 2015, Baltimore, Maryland, USA.
  
6. American Society of Human Genetics, Characterization of 20,000 clinically relevant variants in 50,000 non-European individuals, E.E. Kenny, C.R. Gignoux, S.A. Bien, N. Zubair, A.E. Justice, **L. Fernandez-Rhodes**, M. Graff, G.L. Wojcik, Y. Vaydylevich, G.M. Belbin, A.A. Seyerle, J.M. Kocarnik, R.D. Jackson, J. Xing, F. Schumarcher, E. Stahl, J.L. Ambite, S. Buyske, C. Wassel, I. Cheng, L.A. Hindorff, T.C. Matise, R.J.F. Loos, C. Kooperberg, K.E. North, C.A. Haiman, J. Romm, C.D. Bustamante, C.S. Carlson, N.S. Abul-Husn, October 2015, Baltimore, Maryland, USA.
  
6. MODERATED: American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Session, Patterning of CVD risk factors with trajectories of adulthood weight gain in adults 50-76 years of the Hispanic Community Health Study/Study of Latinos (HCHS/SOL), **L Fernández-Rhodes**, A Justice, D Sotres-Alvarez, KE North [MP23], March 2015, Baltimore, Maryland, USA.
  
4. International Genetic Epidemiology Society, Epigenome-Wide Association Study Of Centralized Adiposity In 2,083 African Americans: The Atherosclerosis Risk In Communities



(ARIC) Study, **Lindsay Fernández-Rhodes**, Yun Li, Misa Graff, Weihua Guan, Megan L. Grove, Qing Duan, Guosheng Zhang, Myriam Fornage, James Pankow, Ellen W. Demerath, [Abstract 39], August 2014, Vienna, Austria.

3. American Heart Association Cardiovascular Disease Epidemiology and Prevention Scientific Session, Fine mapping of body fat distribution loci in African American populations: The Population Architecture using Genomics and Epidemiology (PAGE) Study, Sachiko Yoneyama, Misa Graff, Unhee Lim, Jian Gong, Jeff Haessler, Myriam Fornage, **Lindsay Fernández-Rhodes**, et al. March 2014, San Francisco, California, USA.
2. Annual Meeting of the Society for Epidemiologic Research, Mendelian randomization study of the association of age at menarche and type 2 diabetes, J. Dreyfus, J. Pankow, M. Barbalic, R. Huxley, P. Lutsey, **L. Fernández-Rhodes**, E. Selvin, N. Franceschini, E. Demerath, June 2012, Minneapolis, Minnesota, USA.
1. Center for Disease Control Division of Diabetes Translation Conference, Age at Menarche is Associated with Age at Diabetes Diagnosis in the Atherosclerosis Risk in Communities Study (ARIC), Jill Dreyfus, Pamela L. Lutsey, Rachel Huxley, James S. Pankow, Elizabeth Selvin, **Lindsay Fernández-Rhodes**, Nora Franceschini, Ellen W Demerath, April 2011, Minneapolis, MN, USA.

#### **AWARDED INDEPENDENT RESEARCH SUPPORT**

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##### **Gene Orringer Junior Faculty Career Development Program (TraCS KL2) – PI: Fernandez-Rhodes**

UNC/CTSA

Awarded 4/6/18 for Summer 2018-2021, Declined 4/13/18

*Genetic, Bio-Psychosocial and Epigenetic Risk Factors for Preterm Birth and Low Birth Weight among Hispanic/Latina Women of Diverse Backgrounds*

To describe the etiology of adverse birth outcomes among US Hispanic/Latina women, under the co-mentorship of Drs. Stephanie Engel, Allison Aiello and Kari E. North (secondary).

##### **Predocutorial Dissertation Grant 13PRE16100015 – PI: Fernández-Rhodes**

American Heart Association Mid-Atlantic Affiliate

7/1/13 - 6/30/15

*Acculturation and its interaction with genetic obesity susceptibility among United States Hispanics*

To describe the relationship of acculturation and genetic variants on obesity among U.S. Hispanic adults, under the mentorship of Dr. Kari E. North.

#### **RESEARCH ASSISTANT/ASSOCIATE SUPPORT**

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##### **T32-HD007168 – PI: Entwisle**

NIH/NICHHD

7/1/79-4/30/19

*Eunice Kennedy Shriver National Institute of Child Health and Human Development Population Research Training Grant.*

My role is as a Post-doctoral Scholar, 2016-2018.

##### **5R01DK101855 – MPIs: North, Haiman, Loos**

NIH/NIDDK

8/15/14-8/14/17

*Leveraging ancestral diversity to map adiposity loci in Hispanics*

To map the functional variants underlying anthropometric traits in Hispanic/Latinos. My roles were as a Research Assistant, 2014-2016 and a Research Associate, 2016.

**T32-HL007055 – PI: Rosamond**

NIH/NHLBI

7/1/75-5/31/22

*Interdisciplinary Cardiovascular Epidemiology Training Grant*

My role was as a Pre-doctoral Fellow, 2010-2012.

**U01HG004803 – PI: North**

NIH/NHGRI

7/17/08-5/31/13

*Genetic Epidemiology of Casual Variants Across the Life Course*

To genotype well-replicated putative casual variants in well-characterized population-based studies. My role was as a Research Assistant, 2010-2013.

**N01-HC-55018 – PI: Heiss**

NIH/NHLBI

9/01/85-1/31/12

*Atherosclerosis Risk in Communities (ARIC) Morbidity and Mortality Follow-up Field Center*

To examine the determinants and population-correlates of non-invasively ascertained atherosclerosis, its clinical manifestation, and the community burden of ischemic heart disease and heart failure. My role was as a Research Assistant, 2009-2011.

**TEACHING EXPERIENCE**

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**Assistant Professor of Biobehavioral Health** · University Park, PA

2019-pres.

*Biobehavioral Health Department*

BBH 440/HPA 440- Principles of Epidemiology

**Thesis Supervisor** · University Park, PA

2018-pres.

*Biobehavioral Health Department, Schreyer Honors College*

Emily Knell, Honors Thesis in Biobehavioral Health Supervised by Dr. Helen Kamens

**Lead Project Mentor** · Chapel Hill, NC

2018

*University of North Carolina at Chapel Hill, Gillings School of Global Public Health*

Biostatistics Independent Study &amp; Summer Undergraduate Research Fellowship

Emma G. Crenshaw, Supervised by Dr. Jane Monaco, Spring 2018 (BIOS 540 for Advanced Undergraduate Students)

**Epidemiology Tutor** · Chapel Hill, NC

2012-2014

*University of North Carolina at Chapel Hill, Gillings School of Global Public Health Academic Enrichment Program*

Individual and Group Epidemiologic Methods Tutoring

**Teaching Assistant in Masters of Science Training Cores** · Chapel Hill, NC

2011-2013

*University of North Carolina at Chapel Hill, Gillings School of Global Public Health*

Perspectives in Epidemiology and Public Health

Dr. Stephen Wing, Fall 2011 to Spring 2013 (EPID 690 for MSPH Students)

Design of Clinical Research

Dr. Laura Loehr, Spring 2013 (EPID 804 for MSCR Students)

**Teaching Assistant/Recitation Leader in Doctoral Methods Core** · Chapel Hill, NC

2011-2012

*University of North Carolina at Chapel Hill, Gillings School of Global Public Health*

Fundamentals of Epidemiology

Dr. Stephen Marshall, Fall 2011 (EPID 710)

Theory and Quantitative Methods in Epidemiology

Drs. Charles Poole and Christy Avery, Spring 2012 (EPID 715)

## INVITED LECTURES & SEMINARS

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20. COURSE LECTURE: Genetics of Understudied Populations (BBH 410), to be held Spring 2019
19. SEMINAR: Genetics of Understudied Populations The Effect of 287(g) Local Immigration Enforcement Programs on Preventable Pediatric Hospitalizations in North Carolina (PRI Immigration Working Group), to be held Spring 2019
18. SEMINAR: The Biologic Consequences of Socioeconomic Adversity: Cardiometabolic Health of US Minorities (A Quarter on the Border Colloquium Series at the University of Texas at El Paso, Joined by Dr. Christopher Engeland), Fall 2018
17. SEMINAR: Putting Genes Into Context: Interdisciplinary Approaches to Cardiometabolic Health Research in Diverse Populations (Invited to the Center for Precision Medicine at the Wake Forest School of Medicine), Summer 2018
16. COURSE LECTURE: Gene by Environment and Gene by Gene Interactions (EPID 743), Spring 2018
15. ANNUAL COURSE LECTURES: Introduction to Epigenetics: A Bridge Between Genetics and the Environment (EPID 743), Spring 2017-present
14. SEMINAR: Putting Genes Into Context: Interdisciplinary Approaches to Obesity Research in Diverse Populations (Invited to the Biobehavioral Health Department at Pennsylvania State University), Spring 2018
13. ANNUAL COURSE LECTURES: Genetic and Epigenetic Biomarkers: Bridging Social and Biologic Processes (EPID 826), Fall 2015-present
12. WORKSHOPS: Methods for Integrating Genetic and Epigenetic Data into Social Epidemiology (Aiello Research Group Research Methods Training Series), Fall 2017-Spring 2018
11. SEMINAR: A Genetic Risk Score for Increased Body Mass Index and Its Interaction with Acculturation to the United States among Hispanic/Latino Adults (Carolina Population Center Interdisciplinary Seminar Series), November 16, 2017
10. LECTURES: Family-Based Studies in Genetic Epidemiology: Transmission Disequilibrium Tests (Lecture in EPID 743), Spring 2017
9. SEMINAR: Intergenerational Perspectives on Sociocultural Factors and Obesity in United States Hispanic/Latinos (Cardiovascular Disease Epidemiology Seminar Series), Spring 2017
8. LECTURE: Acculturation and Diet in the United States: The Interaction with Genetic Susceptibility of Obesity in Hispanic/Latinos (LTAM 390), Fall 2016 [In Spanish]
7. LECTURES: Genetic and Epigenetic Biomarkers: Bridging Social and Biologic Processes (SPHG 600, and Carolina Population Center Interdisciplinary Workshop), Fall 2016
6. ANNUAL COURSE LECTURES: Genome-Wide Association: Meta-Analysis (EPID 743), Spring 2014-2016
5. LECTURE SERIES: Methodological Fundamentals of Surveillance: Screening; Surveillance of Cardiovascular Diseases; Geographic and Temporal Trends in Diabetes and Obesity in the

World; Genetic Epidemiology (Mexican National Institute of Public Health, Summer Course on Information Systems and Surveillance in Public Health) August 2012 [in Spanish]

4. LECTURE: Fundamentals of Meta-Analysis (EPID 710), Fall 2011
3. SEMINAR: Perceptions about Mammography as a Measure to Detect Breast Cancer in Adult Women, Ensenada, Baja California, México (The Independent University of Baja California Ensenada), August 2011 [in Spanish]
2. LECTURE: Health in the United States: the Health System, Reform, Access and Current Problems (Independent University of Baja California Ensenada), August 2011 [in Spanish]
1. SEMINAR: Obesity-Related Variants and Age at Menarche in the ReproGen Consortium (Epid 897), Spring 2011

### **PROFESSIONAL SERVICE**

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<b>Invited Panelist</b> <i>National Youth Leadership Forum on Medicine</i>	2017
<b>Invited Journal and Publication Committee Reviewer</b> <i>Epidemiology, IJO, Pediatric Obesity, Obesity, PLoS One, BMC Public Health</i>	2015-pres.
<b>Reproductive Traits Working Group Chair</b> <i>Genetic Analysis Center for the Hispanic Community Health Study/Study of Latinos</i>	2014-2015
<b>Consortium and Analyses Coordinator</b> <i>Hispanic/Latino Anthropometry Consortium</i>	2013-pres.
<b>Latino Health Fair Volunteer Spanish Translator</b> <i>Catholic Community of St. Thomas More</i>	2013
<b>Student Representative</b> <i>Epidemiology Department Diversity and Inclusion Task Force</i>	2012-2014
<b>Spanish/English Support Group Facilitator</b> <i>Orange County Rape Crisis Center</i>	2011-2013
<b>Co-Organizer</b> <i>Alumni Dinner EPI/LIFESTYLE Scientific Sessions, Peer-Led Workshop Series, Cardiovascular Epidemiology Seminar Series (EPID 897)</i>	2010-2012
<b>Sexual Assault Outreach Spanish/English Volunteer</b> <i>Montgomery County Victims Assistant and Sexual Assault Program</i>	2008-2009
<b>Heart Health Symposium Volunteer</b> <i>Primary Care Coalition</i>	2008

### **ACADEMIC MEMBERSHIPS & AWARDS**

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<b>Postdoctoral Travel Award</b> <i>Office of Postdoctoral Affairs, University of North Carolina at Chapel Hill</i>	2018
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<b>Program Committee Member</b> <i>Interdisciplinary Association for Population Health Science</i>	2018-pres.
<b>Competition Winners of Six-Month Health Innovation Lab</b> <i>Eshelman Institute for Innovation, University of North Carolina Eshelman School of Pharmacy</i>	2017
<b>Inducted Member of Delta Omega Honorary Society in Public Health</b> <i>Theta Chapter, University of North Carolina Gillings School of Global Public Health</i>	2017-pres.
<b>Early Career Member</b> <i>Interdisciplinary Association for Population Health Science</i>	2018-pres.
<i>International Genetic Epidemiology Society</i>	2016-pres.
<i>Society for Epidemiologic Research</i>	2016-pres.
<i>American Heart Association</i>	2012-pres.
<b>Nancy A. Dreyer Endowed Scholarship in Epidemiology</b> <i>University of North Carolina at Chapel Hill, Gillings School of Global Public Health</i>	2015
<b>SER Annual Workshop on Methods for Epidemiology Doctoral Students</b> <i>Society for Epidemiologic Research</i>	2014
<b>Rebecca James Baker Scholarship</b> <i>University of North Carolina at Chapel Hill, Epidemiology Department</i>	2012
<b>Border Epidemiology and Environmental Health Center Experience</b> <i>University of New Mexico/Fred Hutchinson Cancer Research Center</i>	2011

## **RESEARCH & COMMUNICATION SKILLS**

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### **Computer Applications**

SAS, METAL, PLINK, EasyQC, EasyStrata, QUANTO, Stata, MMAP, ProbABEL, SOLAR

### **Languages**

Professional Proficiency in Spanish Coursework in Spanish for Research and Healthcare	2010
Working Proficiency in German Certification from the Goethe Institute Certification in Business German	2006