

Chantel L. Martin, PhD

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

- 2015 **PhD, Epidemiology with Biostatistics minor**
University of North Carolina at Chapel Hill
Dissertation: Maternal dietary patterns during pregnancy and early
childhood growth
Dissertation Chair: Dr. Anna Maria Siega-Riz
- 2009 **MSPH, Concentration in Epidemiology**
University of North Carolina at Charlotte
Thesis: Serum micronutrient concentrations and risk of uterine fibroids
Advisor: Dr. Larissa Brunner-Huber
- 2005 **BS, Finance with Economics minor**
University of Delaware
Advisor: Timothy Detwiler, MBA

PROFESSIONAL EXPERIENCE

- June 2020-present **Assistant Professor (Tenure-Track)**
Department of Epidemiology
Gillings School of Global Public Health
University of North Carolina at Chapel Hill
- July 2020-present **Faculty Fellow**
Carolina Population Center
University of North Carolina at Chapel Hill
- 2017-2020 **Postdoctoral Research Fellow**
Department of Epidemiology & Carolina Population Center
University of North Carolina at Chapel Hill
- 2015-2017 **Postdoctoral Research Fellow**
Department of Health Behavior
University of North Carolina at Chapel Hill

- 2012-2015 **Research Assistant**
 Department of Epidemiology & Nutrition
 Center for Health Promotion and Disease Prevention
 University of North Carolina at Chapel Hill
- 2007-2009 **Graduate Assistant**
 Department of Public Health Sciences
 University of North Carolina at Charlotte

HONORS & AWARDS

- 2019 UNC Postdoctoral Award for Research Excellence
- 2016 African American Collaborative Obesity Research Network
 Conference, Travel Scholarship
- 2013-2014 UNC Graduate School Dissertation Completion Fellowship (*Declined*)
- 2011 7th Annual NICHD-IHDCYH Summer Institute in Reproductive
 and Perinatal Epidemiology
- 2010 Maternal & Child Health Bureau Graduate Student Internship Program
- 2010 Delta Omega Inductee, Beta Phi Chapter
- 2009-2010 UNC North Carolina Minority Presence Fellowship
- 2009 Wong-Moulton Scholarship in Epidemiology
- 2009 UNC Charlotte Best Master’s Thesis Award in Life Science
- 2009 UNC Charlotte Health Research Academy Best Master’s Level Paper

BIBLIOGRAPHY

†*Mentored student paper/Senior author*

Peer-Reviewed Journal Articles – Published

1. Ward-Caviness C, Pu S, **Martin CL**, Galea S, Uddin M, Wildman DE, Koenen KC, Aiello AE. Epigenetic predictors of all-cause mortality are associated with objective measures of neighborhood disadvantage in an urban population. *Clinical Epigenetics*, 2020; 12(1): 44.
2. **Martin CL**, Kane JB, Miles GL, Aiello AE, Harris KM. Neighborhood disadvantage across the transition from adolescence to adulthood and risk of metabolic syndrome. *Health & Place*, 2019; 57: 131-138.
3. **Martin CL**, Jima D, Sharp GC, McCullough LE, Park SS, Gowdy KM, Skaar D, Cowley M, Maguire RL, Fuemmeler B, Collier D, Relton CL, Murphy SK, Hoyo C. Maternal pre-pregnancy obesity, offspring cord blood DNA methylation, and offspring cardiometabolic health outcomes in early childhood: An epigenome-wide association study. *Epigenetics*, 2019; 14: 325-240.
4. **Martin CL**, Vladutiu CJ, Zikry TM, Grace MR, Siega-Riz AM. Maternal lipid levels during pregnancy and child weight status at first 3 years of age. *Pediatric Obesity*. 2019; 14(4): e12485.

5. **Martin CL**, Tate DF, Valle CG. Nonadherence to daily self-weighing and activity tracking is associated with weight fluctuations among African American breast cancer survivors. *PLoS One*. 2018; 13(6): e0199751.
6. **Martin CL**, Haan MN, Fernandez-Rhodes L, Lee A, Aiello AE. Association between immigration history and inflammatory marker profiles among older adult Mexican Americans. *Biodemography and Social Biology*. 2018; 64(1): 30-42.
7. Vaughn AE, **Martin CL**, Ward DS. What matters most – what parents model or what parents eat? *Appetite*. 2018; 126: 102-107.
8. **Martin CL**, Tate DF, Schaffner A, Brannen A, Hatley KE, Diamond M, Munoz-Christian K, Pomeroy J, Sanchez T, Mercado A, Hagobian T, Phelan S. Acculturation influences postpartum eating, activity, and weight retention in low-income Hispanic women. *Journal of Women's Health*. 2017; 26: 1333-1339.
9. **Martin CL**, Siega-Riz AM, Sotres-Alvarez D, Robinson WR, Daniels JL, Perrin EM, Stuebe AM. Maternal dietary patterns during pregnancy are associated with child growth in the first 3 years of life. *Journal of Nutrition*. 2016; 146: 2281-2288.
10. **Martin CL**, Siega-Riz AM, Sotres-Alvarez D, Robinson WR, Daniels JL, Perrin EM, Stuebe AM. Maternal dietary patterns are associated with lower levels of cardiometabolic markers during pregnancy. *Paediatric and Perinatal Epidemiology*. 2016; 30(3): 246-255.
11. **Martin CL**, Sotres-Alvarez D, Siega-Riz AM. Maternal dietary patterns during the second trimester are associated with preterm birth. *Journal of Nutrition*. 2015; 145(8): 1857-1864.
12. Robinson WR, Utz RL, Keyes KM, **Martin CL**, Yang Y. Birth cohort effect on abdominal obesity in the United States: The Silent Generation, Baby Boomers, and Generation X. *International Journal of Obesity*. 2013; 37(8): 1129-1134.
13. Robinson WR, Keyes KM, Utz RL, **Martin CL**, Yang Y. Birth cohort effects among US-born adults born in the 1980s: foreshadowing future trends in US obesity prevalence. *International Journal of Obesity*. 2013; 37(3): 448-454.
14. **Martin CL**, Huber LR, Thompson ME, Racine EF. Serum micronutrient concentrations and risk of uterine fibroids. *Journal of Women's Health*. 2011; 20(6): 915-922.
15. **Martin CL**, Brunner Huber LR. Physical activity and hypertensive complications during pregnancy: Findings from 2004-2006 North Carolina Pregnancy Risk Assessment Monitoring System. *Birth: Issues in Perinatal Care*. 2010; 37(3): 202-210.
16. Kirk JK, Strachan E, **Martin CL**, Davis SW, Peechara M, Lord R. Patient characteristics and process of care measures as predictors of glycemic control. *Journal of Clinical Outcomes Management*. 2010; 17(1): 27-30

Peer-Reviewed Journal Articles – Under Review or In Progress

1. Fernandez-Rhodes L, Ward JB, **Martin CL**, Zeki Al Hazzour A, Torres J, Gordon-Larsen P, Haan MN, Aiello AE. Intergenerational educational mobility and type 2 diabetes among immigrant families from Latin America living in the United States. *SSM-Population Health* [Under review]
2. Zalla LC, **Martin CL**, Edwards JK, Gartner DR, Noppert GA. A Geography of Risk: Structural racism and COVID-19 mortality in the United States. *American Journal of Public Health* [Under review]
3. Crenshaw EG, Fernandez-Rhodes L, **Martin CL**, Gordon-Larsen P, Haan MN, Aiello AE. The effect of intergenerational educational attainment on cardiometabolic health in United States Latinos. *Obesity*. [Under review]
4. Lodge E[†], Hoyo C, Gutierrez C, Rappazzo KM, Emch ME, **Martin CL**. Estimating crime exposure by race and ethnicity for public health research. [In progress]
5. Noppert GA, **Martin CL**, Zivich PN, Aiello AE, Mullan Harris K, O’Rand A. Time-varying neighborhood disadvantage and memory in young adults. [In progress]
6. **Martin CL**, Dhingra R, Zikry TM, Ward-Caviness C, Uddin M, Galea S, Wildman DE, Koenen KC, Aiello AE. Association of objective and subjective neighborhood quality with biomarkers of DNA methylation aging. [In progress]

Conference Oral Presentations

1. Zikry TM, **Martin CL**, Li Gang, Uddin M, Galea S, Wildman DE, Koenen KC, Aiello AE. “The effect of neighborhood perception on the divergence between chronological and DNA methylation age.” 2019 Society for Epidemiologic Research Annual Meeting in Minneapolis, MN. June 19-21.
2. [†]Lodge EK, Hoyo C, Aiello AE, **Martin CL**. “Prenatal exposure to neighborhood crime and offspring blood pressure from 0-3 years of age.” 2019 U.S. Developmental Origins of Health and Disease Annual Meeting in Chapel Hill, NC. September 9-10.
3. **Martin CL**, Uddin M, Wildman DE, Aiello AE. “Epigenetic predictors of lifetime trauma among a cohort of African Americans.” 2018 Interdisciplinary Association of Population Health Sciences Annual Meeting in Washington, DC. October 3-5.
4. **Martin CL**, Haan MN, Fernandez-Rhodes L, Lee A, Aiello AE. “Immigration history and inflammation profiles among older Mexican American adults.” 2018 Society for Epidemiologic Research Annual Meeting in Baltimore, MD. June 20-22.
5. **Martin CL**, Kane JB, Aiello AE, Harris KM. “Life course neighborhood disadvantage and metabolic syndrome in young adulthood.” 2017 Society for Epidemiologic Research Annual Meeting in Seattle, WA. June 21-23.
6. Valle CG, **Martin CL**, Tate DF. Nonadherence to daily weighing and activity tracking is associated with weight fluctuations among breast cancer survivors. 38th Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine in San Diego, CA. March 29-April 1, 2017

7. **Martin CL**, Sotres-Alvarez D, Robinson WR, Daniels JL, Perrin E, Stuebe AM, Siega-Riz AM. “Dietary patterns and maternal cardiometabolic biomarkers during pregnancy.” 2015 Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting in Denver, CO. June 15-16.
8. **Martin CL**, Hale D, Vaughn A, Ward DS. “Estimating parent misreporting of energy intake among preschool children attending day care.” 2013 Experimental Biology-American Society of Nutrition. Boston, MA. April 19-23.

Invited Lectures and Presentations

1. “Embodying Place: Neighborhoods environment and health disparities.” Carolina Population Center, University of North Carolina at Chapel Hill (Interdisciplinary Research Seminar Series), March 20, 2020 [*Cancelled due to SARS-Cov2 pandemic closures*]
2. “Embodying Place: Neighborhood social environment and cardiometabolic health disparities.” University of Texas-Austin Population Research Center, (Friday Brown Bag seminar), November 22, 2019
3. “Developmental origins of health disparities: A biosocial perspective.” University of North Carolina at Chapel Hill, Department of Epidemiology, (Reproductive/Perinatal/Pediatric Epidemiology Program seminar), October 29, 2019
4. “Origins of cardiometabolic health disparities.” Virginia Commonwealth University, Department of Health Behavior and Policy, (Seminar Series), March 26, 2019
5. “How old are you? Social Stressors and epigenetic aging.” University of North Carolina at Chapel Hill, Carolina Population Center, (Carolina Population Center Interdisciplinary Workshop), March 21, 2019
6. “Epigenetic mechanisms of maternal pre-pregnancy obesity and offspring obesity risk.” University of North Carolina at Chapel Hill, Department of Epidemiology, (Reproductive/Perinatal/Pediatric Epidemiology Program seminar), October 30, 2018
7. “Origins of cardiometabolic health disparities: A multi-level life course approach.” University of Texas at Austin, Department of Nutritional Sciences, (Nutrition Seminar Series), October 19, 2018
8. “Early life neighborhood disadvantage and metabolic syndrome risk in adulthood.” University of North Carolina at Chapel Hill, Carolina Population Center, (Carolina Population Center Interdisciplinary Workshop), Fall 2017.
9. “Life course neighborhood disadvantage and metabolic syndrome in adulthood.” University of North Carolina at Chapel Hill, Department of Epidemiology, (Social Epidemiology Seminar), Fall 2017.
10. “Eating for two: the impact of maternal dietary patterns on maternal and child health.” University of North Carolina at Charlotte, Department of Public Health Sciences, (Women’s Health Research Interest Group), Spring 2017
11. “Immigration status in the US and biomarkers of stress and chronic disease.” University of North Carolina at Chapel Hill, Department of Epidemiology, (Social Epidemiology Seminar), Fall 2016.

- 2018-2019 EPID 799: *Seminars in Social Epidemiology*
Department of Epidemiology
University of North Carolina at Chapel Hill
Role: Co-Instructor
2 semesters; 9 master's/doctoral students (Fall 2018) and 4 (Fall 2019)
- 2018 EPID 826: *Introduction to Social Epidemiology: Concepts and Measures*
Department of Epidemiology
University of North Carolina at Chapel Hill
Role: Co-Instructor
1 semester; 19 doctoral students

Guest Lectures

- 2017, 2019 Lecturer
“Multilevel and neighborhood influences on health.”
EPID 826: *Introduction to Social Epidemiology: Concepts and Measures*
Department of Epidemiology
University of North Carolina at Chapel Hill
- 2018-2019 Lecturer
“Operationalizing Theory and Constructs in Social Epidemiology.”
EPID 827: *Social Epidemiology: Analysis and Interpretation.*
Department of Epidemiology
University of North Carolina at Chapel Hill

SERVICE ACTIVITIES

University of North Carolina – as a graduate student or post-doc

- 2018 Presentation Advisory Board, Summer Undergraduate Internship Program
Carolina Population Center
- 2017 Summer Internship Mentor, Summer Undergraduate Internship Program
Carolina Population Center
- 2011 Student Member, Associate Dean of Student Affairs Selection Committee,
University of North Carolina at Chapel Hill

National and Professional Society Activities

- 2018-present Social Determinants of Health Working Group Member, Jackson Heart Study
- 2019 Panelist, Funding 101: Student Lunchtime Session. Interdisciplinary Association
for Population Health Sciences (IAPHS) Annual Meeting in Seattle, WA.
- 2019 Session Co-chair, Professional Development Session: Ask Me Anything?
Society for Epidemiologic Research (SER) Annual Meeting, Minneapolis, MN
- 2018 Program Committee, Interdisciplinary Association for Population Health Science

Invited Manuscript Reviews

- Epigenetics
PLoS One
Psychoneuroendocrinology

Journal of Nutrition
British Journal of Nutrition
Social Science & Medicine
International Journal of Obesity

Conference Abstract Review

Interdisciplinary Association for Population Health
Society for Epidemiologic Research
Society for Perinatal and Pediatric Epidemiological Research

PROFESSIONAL MEMBERSHIPS

2019 – present	U.S. Developmental Origins of Health and Disease
2018 – present	Interdisciplinary Association for Population Health
2011 – present	Society for Perinatal and Pediatric Epidemiological Research
2011 – present	Society for Epidemiological Research