

Sharrelle Barber, ScD, MPH

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Philadelphia, PA 19104

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EDUCATION

- Harvard University**, School of Public Health
Doctor of Science in Society, Human Development, and Health, Social Epidemiology Concentration
Dissertation: Neighborhoods and Cumulative Risk of Disease: An Investigation Among African American Adults Living in the Deep South
Research Committee: Felton Earls, MD (chair); Ichiro Kawachi, MD, PhD; S.V. Subramanian, PhD
Boston, MA
May 2014
- University of North Carolina-Chapel Hill (UNC)**, Gillings School of Global Public Health
Master of Public Health in Health Behavior and Health Education
Thesis: Behaviors in Context: Exploring the Relationship Between Risk Behaviors and Sense of Community Among Adolescents Living in Low-Income Neighborhoods in Mobile, Alabama
Readers: Arjumand Siddiqi, ScD and John Bolland, PhD
Chapel Hill, NC
May 2009
- Bennett College for Women**
Bachelor of Science in Biology
Summa Cum Laude, Valedictorian
Greensboro, NC
May 2007

ACADEMIC APPOINTMENTS

- 2017- Assistant Research Professor**
Dept. of Epidemiology and Biostatistics and the Urban Health Collaborative, Drexel University, Dornsife School of Public Health, Philadelphia, PA

RESEARCH EXPERIENCE

- 2014-17 Postdoctoral Research Fellow**
Dept. of Epidemiology and Biostatistics, Drexel University, Dornsife School of Public Health, Philadelphia, PA
Center for Integrative Approaches to Health Disparities and the Urban Health Collaborative
Dr. Ana Diez-Roux, Mentor
- 2016 Visiting Postdoctoral Researcher**
National School of Public Health, Oswaldo Cruz Foundation, Rio de Janeiro, RJ Brazil
Dept. of Epidemiology and the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil)
- 2010-12 Hormones, Social Relationships and Health Study, Research Assistant**
Dept. of Society, Human Development, and Health, Harvard School of Public Health, Boston, MA
Dr. Laura Kubzansky, Principal Investigator
- 2010-11 Child Health and Social Ecology Study Moshi, Tanzania, Research Assistant**
Dept. of Society, Human Development, and Health, Harvard School of Public Health, Boston, MA
Dr. Felton Earls, Principal Investigator
- 2008-09 Project EXPORT Minority Recruitment Core, Graduate Research Assistant**
UNC Cecil G. Sheps Center for Health Services Research, Program on Health Disparities, Chapel Hill, NC
Dr. Giselle Corbie-Smith, Principal Investigator
- 2008 Summer Internship on Poverty and Adolescent Risks, Research Intern**
Dept. of Health Education, University of Alabama at Birmingham School of Public Health, Birmingham, AL
Dr. John Bolland, Principal Investigator
- 2007-08 Graduate Student Action-Oriented Community Diagnosis Team**
Dept. of Health Behavior and Health Education, UNC School of Public Health, Chapel Hill, NC
Dr. Eugenia Eng, Principal Investigator
- 2006 Summer Pre-Graduate Research Experience, the University of North Carolina-Chapel Hill**
Lineberger Comprehensive Cancer Center, UNC-Chapel Hill, Chapel Hill, NC
Dr. Laura Linnan, Principal Investigator
- 2005 Summer Program in Quantitative Sciences, Harvard School of Public Health**
Dept. of Biostatistics, Harvard School of Public Health, Boston, MA
Dr. Louise Ryan, Principal Investigator

HONORS

- 2017 American Heart Association Scientist Development Grant Awardee
 2016 Robert Wood Johnson Foundation New Connections Grantee
 2015 Selected participant, Robert Wood Johnson Foundation, New Connections Ninth Annual Young Investigators Symposium, Princeton, NJ
 2014 1st Place for Best Oral Paper, Society for the Analysis of African American Public Health Issues Annual Meeting, New Orleans, LA
 2013 Teaching Assistant Award, Harvard University School of Public Health
 2012 Winokur Fellowship, Harvard University School of Public Health
 2012 International Philanthropic Educational Organization (P.E.O.) Scholar Award for Excellence in Merit and Service
 2008 Lucy Morgan Fellowship, UNC-Chapel Hill, Dept. of Health Behavior and Health Education
 2007 John Briley Fellowship, UNC-Chapel Hill, Dept. of Health Behavior and Health Education
 2007 Wilbert E. Matthews, Sr. Humanitarian Award, Bennett College for Women
 2007 President's Excellence Award, Bennett College for Women
 2007 Valedictorian, Bennett College for Women
 2007 Summa Cum Laude, Bennett College for Women
 2003 Greg Barmore Merit Scholarship, Bennett College for Women
 2003 Valedictorian, Eastern Wayne High School
 2002 North Carolina Governor's School East

PUBLICATIONS

Peer-Reviewed Manuscripts

1. **Barber S**, Diez-Roux AV, Cardoso L, Santos S, James, SA, Toste V, Barreto S, Schmidt M, Giatti L, Chor D (**in press**). At the Intersection of Place, Race, and Health in Brazil: Residential Segregation and Cardio-metabolic Risk Factors in the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil). *Social Science and Medicine* Special Issue on Racism and Health Inequalities, doi: 10.1016/j.socscimed.2017.05.047.
2. Wang X, Auchincloss A, **Barber S**, Sims M, Griswold M, Mayne S, Diez-Roux AV (**2017**). Neighborhood Social Environment as a Risk Factor for Health Behaviors Among African Americans in the Jackson Heart Study. *Health and Place*, 45, 199-207, doi: 10.1016/j.healthplace.2017.04.002.
3. **Barber S**, Hickson DA, Wang X, Sims M, Nelson C, Diez-Roux AV (**2016**). Neighborhood Disadvantage, Poor Social Conditions, and Cardiovascular Disease Incidence Among African American Adults in the Jackson Heart Study. *American Journal of Public Health*, 106(12), 2219-2226. doi: 10.2105/AJPH.2016.303471.
4. **Barber S**, Hickson DA, Kawachi I, Subramanian SV, Earls F (**2016**). Double Jeopardy: Examining the Joint Impact of Neighborhood Disadvantage and Low Social Cohesion on Cumulative Risk of Disease Among African American Women and Men in the Jackson Heart Study. *Social Science and Medicine*, 153, 107-115. doi: 10.1016/j.socscimed.2016.02.001.
5. **Barber S**, Hickson DA, Kawachi I, Subramanian SV, Earls F (**2015**). Neighborhood Disadvantage and Cumulative Biological Risk Among a Socioeconomically Diverse Sample of African American Adults: An Examination in the Jackson Heart Study. *Journal of Racial and Ethnic Health Disparities*. doi: 10.1007/s40615-015-0157-0.
6. Green MA, Kim MM, **Barber S**, Odulana AA, Godley PA, Howard DL, Corbie-Smith G (**2013**). Connecting Communities to Health Research: Recruitment Strategies and the Development of the Project CONNECT Minority Research Registry. *Contemporary Clinical Trials*. doi:10.1016/j.cct.2013.01.001.

Manuscripts Under Review

7. Needham B, Wang X, Carroll J, **Barber S**, Epel ES, Sanchez B, Seeman T, Diez-Roux AV. Socio-demographic Correlates of Change in Leukocyte Telomere Length during Mid- to Late-Life: The Multi-Ethnic Study of Atherosclerosis.

Manuscripts in Preparation

8. **Barber S**, Kershaw K, Wang X, Hickson DA, Sims M, Tabb L, Vaughn N, Williams DR, Diez-Roux AV. Racial Residential Segregation and CVD Incidence Among African American Adults in A Southern Metropolitan Area: A Prospective Analysis in the Jackson Heart Study.
9. Duncan D, Crawford N, Bennett R, Gipson J, **Barber S**, Hickson DA. Associations between Neighborhood Physical Disorder, Sexual Behaviors and HIV Infection Among Black Men Who Have Sex with Men in the Deep South: The MARI Study.

Reports and Other Publications

10. Barber R & **Barber S** (2016). 'Sick and tired of being sick and tired': making the connection between disenfranchisement and disease. *Facing South*. Institute of Southern Studies, 6 Oct 2016.
11. **Barber S**, Bellamy J, George A, Muhammad N, Petersen D, Thompson J, Tzeng J, Warren M (2008). The African American Community of Southeast Rocky Mount, North Carolina: An Action-Oriented Community Diagnosis. Report completed for the Southeast Rocky Mount Community Organization, Rocky Mount, NC. *UNC Libraries*: <http://archives.hsl.unc.edu/cdpapers/2008rockymount.pdf>.

PRESENTATIONS

Conference Presentations

1. **Barber S**, Diez-Roux AV, Cardoso L, Santos S, James, SA, Toste V, Barreto S, Schmidt M, Giatti L, Chor D (2017). At the Intersection of Place, Race, and Health in Brazil: Examining Residential Segregation and Cardio-metabolic Risk Factors in the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil). Oral presentation presented at the Society for Epidemiologic Research 50th Annual Meeting, Seattle, WA.
2. **Barber S**, Kershaw K, Wang X, Hickson DA, Sims M, Tabb L, Vaughn N, Williams DR, Diez-Roux AV (2016). Neighborhood-Level Racial Residential Segregation as a Fundamental Cause of Cardiovascular Disease Incidence in African American Adults: A Prospective Examination in the Jackson Heart Study. Oral presentation presented to the Epidemiology Section at the 144th Annual American Public Health Association Meeting and Exposition, Denver, CO.
3. Duncan D, Crawford N, Bennett R, Gipson J, **Barber S**, Hickson DA (2016). Associations between Neighborhood Physical Disorder, Sexual Behaviors and HIV Infection Among Black Men Who Have Sex with Men in the Deep South: The MARI Study. Poster presentation presented at the 144th Annual American Public Health Association Meeting and Exposition, Denver, CO.
4. **Barber S**, Hickson DA, Wang X, Sims M, Nelson C, Diez-Roux AV (2016). The Influence of Neighborhood Disadvantage and Social Conditions on Cardiovascular Disease Incidence Among African American Adults in a Southern Metropolitan Area: A Prospective Analysis in the Jackson Heart Study. Poster presented at the American Heart Association Epi/Lifestyle Scientific Session, Phoenix, AZ.
5. **Barber S**, Hickson DA, Kawachi I, Subramanian SV, Earls F (2014). Examining the Association Between Neighborhood Disadvantage and Cumulative Biological Risk Among African American Adults at Varying levels of SES. Oral presentation presented at the Society for the Analysis of African American Public Health Issues Annual Scientific Symposium, New Orleans, LA.
6. Green M, Kim M, **Barber S**, Odulana A, Corbie-Smith G (2012). Connecting Communities to Health Research: Recruitment Strategies and Development of the Project CONNECT Minority Research Registry. Oral presentation presented at the 140th Annual American Public Health Association Meeting and Exposition, San Francisco, CA.
7. **Barber S**, Siddiqi A, Bolland J (2010). Behaviors in Context: Exploring the Relationship Between Neighborhood Connectedness and Risk Behaviors in Adolescents in Mobile, Alabama. Poster presented at the 138th Annual American Public Health Association Meeting and Exposition in Denver, CO.
8. Lian B, Bolland J, **Barber S** (2008). On Public Housing and Adolescent Health Outcomes. Paper submitted to the Society for Research in Child Development 2009 Biennial Meeting, Denver, CO.
9. **Barber S**, Tzeng J, Thompson J, George A (2008). Other side of the tracks: Understanding the historical, social, and environmental context of health in an African American community in Eastern North Carolina. Poster presented at the 136th Annual American Public Health Association Meeting and Exposition, San Diego, CA.
10. **Barber S**, Carlisle V, Linnan L (2006). "P" is for Participation: Assessing the Participatory Component of a Community-Based Participatory Research Study. Poster presented at the NC Opt-Ed Alliance Day, Greensboro, NC.
11. **Barber S**, Bennett G, Tucker-Sealey R, Barbeau B (2006). Discrimination and Interleukin-6 (IL-6) in a Sample of School Bus Drivers. Poster presented at the NC Northeast Alliance Day, Greensboro, NC.

Invited Talks and Lectures

12. **Barber S** (2017). Using Research to Improve Social Determinants of Health: Findings from the Jackson Heart Study. Invited Workshop Facilitator, JHS Community Outreach and Engagement Core Training, Jackson Medical Mall, Jackson, MS.

13. **Barber S (2017)**. Residential Segregation and CVD Outcomes: Implications for Racial Health Inequalities in the United States and Brazil. Guest Lecture, Sociology of Health & Illness. Dept. of Sociology, Drexel University, Philadelphia PA.
14. **Barber S (2016)**. Black Lives Matter: A Public Health Perspective. Guest Lecture, Public Health and Social Justice. Dept. of Health Policy and Management, Drexel University Dornsife School of Public Health, Philadelphia, PA.
15. **Barber S (2015-17)**. Action-Oriented Community Diagnosis: Lessons from Southeast Rocky Mount, NC. Guest Lecture, Theory and Practice of Community Health and Prevention. Dept. of Community Health and Prevention, Drexel University Dornsife School of Public Health, Philadelphia, PA.
16. **Barber S (2016)**. At the Intersection of Place, Race, and Health in Brazil: Residential Segregation and Cardio-metabolic Risk Factors in the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil). Research Seminar, Urban Health Collaborative, Drexel University Dornsife School of Public Health, Philadelphia, PA.
17. **Barber S (2016)**. Residential Segregation, Race, and Cardio-metabolic Risk Factors in the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil). Invited Presentation, Dept. of Epidemiology, National School of Public Health. Oswaldo Cruz Foundation, Rio de Janeiro, RJ Brazil.
18. **Barber S (2016)**. Matters of Life and Death: A Dialogue with Young Scholars about Public Health, Social Justice, and the Power of Partnerships. Invited Panel Organizer and Moderator, Community-Campus Partnerships for Health International Conference, New Orleans, LA.
19. **Barber S (2016)**. Applications of Multi-Level Analyses in the Jackson Heart Study. Guest Lecture, Neighborhoods and Health, Dept. of Community Health and Prevention, Drexel University Dornsife School of Public Health, Philadelphia, PA.
20. **Barber S, Hickson DA, Kawachi I, Subramanian SV, Earls F (2015)**. Neighborhood Disadvantage and Cardiovascular Disease Risk in the Jackson Heart Study: Implications for Action. Invited Presentation, Center for Integrative Approaches to Health Disparities Junior Investigators Symposium, Philadelphia, PA.

TEACHING EXPERIENCE

- 2016 Seminar on Scientific Manuscript Writing, Lecturer**
Drexel University Dornsife School of Public Health
Doctoral Student Seminar Series
- 2015 Seminar on Health Disparities Research, Lecturer**
Drexel University Dornsife School of Public Health
Opening Doors: Health Disparities Research Training Program
- 2015 Seminar on Scientific Manuscript Writing, Lecturer**
Drexel University Dornsife School of Public Health
Opening Doors: Health Disparities Research Training Program
- 2013 Introduction to Epidemiology, Biostatistics, and Population Health, Adjunct Lecturer**
Brandeis University
Program in Health: Science, Society and Policy (HSSP)
- 2013-14 Research Methods in Global Health and Health Policy, Teaching Fellow**
Dr. David Cutler, Instructor
Faculty of Arts and Sciences, Harvard University
- 2012 Society and Health, Head Teaching Assistant**
Dr. Ichiro Kawachi, Instructor and Dept. Chair
Dept. of Society, Human Development, and Health, Harvard School of Public Health
- 2010-11 Society and Health, Teaching Assistant**
Dr. Ichiro Kawachi, Instructor and Dept. Chair
Dept. of Society, Human Development and Health, Harvard School of Public Health

SERVICE**Professional****Ad hoc Review Activities**

American Journal of Epidemiology, Peer Reviewer
 Social Science and Medicine, Peer Reviewer
 Journal of Racial and Ethnic Health Disparities, Peer Reviewer
 Jackson Heart Study Presentations and Publications Committee, Peer Reviewer
 APHA 141st Annual Meeting, Student Assembly Section, Abstract Reviewer

School and Community

Drexel University Navigator Program, Mentor
 Harvard Reaching Back High School Mentoring Program, Mentor

LEADERSHIP

2013-14	HSPH Diversity and Inclusion Committee, Alternate	Harvard University
2011-12	HSPH Black Student Health Organization, Vice President	Harvard University
2008-09	SPH Minority Student Caucus, Historian	UNC-Chapel Hill
2006-07	Student Government Association, President	Bennett College
2006-07	Board of Trustees, Student Representative	Bennett College
2006-07	President Search Committee, Student Representative	Bennett College

PROFESSIONAL AFFILIATIONS

2008 American Public Health Association, Young Professional Member
2014 Society for the Analysis of African American Public Health Issues, Member
2015 Robert Wood Johnson Foundation, New Connections Scholar
2016 American Heart Association, Professional Member
2016 Society for Epidemiologic Research, Professional Member

RESEARCH SUPPORT**Ongoing Research Support****Funding Agency: American Heart Association Scientist Development Grant**

Date of Award: 07/01/2017-06/30/2020

Project Title: Multilevel Social Predictors of Hypertension and Diabetes Control in the US and Brazil (17SDG33670142)

Role: Principal Investigator

Award Amount: \$231,000

Funding Agency: Robert Wood Johnson Foundation, New Connections Program

Date of Award: 09/01/2016-08/31/2017

Project Title: Residential Segregation as a Fundamental Cause of CVD Risk in the Deep South: An Investigation in the Jackson Heart Study

Role: Principal Investigator

Award Amount: \$50,000

Funding Agency: National Institute of Minority Health and Health Disparities, National Institutes of Health

Project Title: Social and Geographic Predictors of Heterogeneity in Cardiovascular Risk in African Americans, (2 P60 MD 002249)

Project Director: Dr. Ana Diez-Roux, Principal Investigator

Role: Postdoctoral Research Fellow/Trainee

Completed Research Support**Funding Agency: National Heart, Lung, and Blood Institute, National Institutes of Health**

Project Title: CVD Epidemiology Training Program in Behavior, the Environment and Global Health, (T32 HL 098048-02)

Project Directors: Drs. Eric Rimm and Dariush Mozaffarian

Role: Pre-Doctoral Fellow/Trainee

Funding Agency: International Philanthropic Educational Organization (P.E.O.)

Project Title: P.E.O. Scholar Awards

Project Director: Lyra Halsten

Role: Pre-Doctoral Awardee

Description: The goal of the P.E.O. Scholar Awards is to provide competitive merit-based awards to women of the United States and Canada who are either pursuing a doctoral level degree or are engaged in postdoctoral research.

Funding Agency: National Institute of General Medical Sciences, National Institutes of Health

Project Title: Initiative to Maximize Student Diversity, (5 R25 GM 055353)

Project Directors: Drs. Ichiro Kawachi and Stephen Gillman

Role: Pre-Doctoral Research Assistantship

Funding Agency: National Center for Minority Health and Health Disparities, National Institutes of Health

Project Title: Carolina-Shaw Comprehensive NCMHD Research Center (Project EXPORT), (2 P60 MD000244-06)

Project Directors: Drs. Paul Godley, Principal Investigator and Giselle Corbie-Smith, Co-Principal Investigator

Role: Graduate Research Assistant

**OTHER
FUNDING**

Drexel University, Office of International Programs

International Experience Travel Award

Award Amount: \$1,000