

## COLLETTE N. NCUBE

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### EDUCATION

- Doctor of Public Health** in Behavioral and Community Health Sciences 2014  
University of Pittsburgh, Pittsburgh, PA  
Dissertation: "Transgenerational Risk for Low Birth Weight and Preterm Birth: The Role of Biological and Neighborhood Factors in Racial Disparities"  
Dissertation co-chairs: Jessica Burke and Steven Albert  
Committee members: Feifei Ye, John Marx, and Ronald Voorhees
- Master of Science** in Epidemiology with certificate in Maternal and Child Health 2016  
University of Washington, Seattle, WA  
Thesis: "Sex-specific Associations of Maternal Birthweight with Offspring Birthweight in the Omega Study: The role of pre-pregnancy body mass index"  
Committee chair: Daniel A. Enquobahrie  
Committee member: Amelia R. Gavin
- Master of Public Health** in Health Policy & Management 2009  
University of Pittsburgh, Pittsburgh, PA  
Outstanding Student award  
Master's Essay: "Assessment of Infant Sleep Position and Environment Data Routinely Collected by Home Visiting Agencies in Allegheny County"  
Advisor: Wesley Rohrer
- Bachelor of Business Administration** in Economics with minor in Accounting 2008  
Baylor University, Waco, TX  
Dean's list 2005, 2007

### PROFESSIONAL APPOINTMENTS

- Assistant Professor** (tenure-track), Department of Health Sciences July 2018  
Northeastern University, Boston, MA

### RESEARCH EXPERIENCE

- Future Faculty Fellow**, July 2017 – June 2018  
Northeastern University, Department of Health Sciences and Institute of Urban Health Research, Boston, MA  
Mentors: Alisa K. Lincoln and Daniel Kim
- Senior fellow**, January 2015 – January 2017  
University of Washington, Department of Epidemiology, Seattle, WA  
T32 Reproductive, perinatal and pediatric epidemiology (RPPE) training program  
Mentors/Program directors: Gayle Reiber and Daniel Enquobahrie
- Project Director**, January 2010 – May 2014

University of Pittsburgh, Department of Family Medicine, Pittsburgh, PA  
Responsible for all operational functions of \$100,000-\$200,000 research study aimed at the prevention of subsequent teen pregnancy. Principal Investigator: Jeannette E. South-Paul

- Program Management
- Data Collection
- Data Management
- Analysis and Report Writing
- Regulatory Responsibilities

**Research Assistant (intern)**, September 2012 – February 2014

RAND Corporation, Pittsburgh, PA

Intern on the Pittsburgh Hill/Homewood Research on Eating, Shopping & Health (PHRESH) study, a five-year project designed to explore food choices, food availability, health and well-being, in two African American communities in Pittsburgh. Principal Investigator: Tamara Dubowitz

- Contributing to the design and drafting of manuscripts on the natural experiment design methodology and the community-engaged approach of the PHRESH study
- Preparing presentations for community advisory board meetings (15-60 people)
- Systematically collected primary data on the physical environment through observation and high resolution panoramic pictures
- Conducted literature reviews

**Research Assistant**, August 2008 - December 2009

University of Pittsburgh, Department of Family Medicine, Pittsburgh, PA

- Conducting literature searches, drafting manuscripts and preparing presentations for faculty researchers for studies related to HIV/AIDS, youth development, maternal and child health, and education in Sub-Saharan Africa
- Collecting and entering primary data and conducting preliminary data analyses

## AWARDS

Health Equity Faculty Scholar, The Institute for Health Equity and Social Justice Research, Northeastern University	2018-2019
Future Faculty Fellowship, Northeastern University	2017-2018
Travel Award, Department of Epidemiology, University of Washington	2016
Travel Award, Maternal and Child Health Program, University of Washington	2015-2016
Research Support Award - University of Pittsburgh Graduate School of Public Health, Behavioral and Community Health Sciences department	2013
1st Place Award - Allegheny County Department of Human Services, 2012 Case Competition	2012
Outstanding Student Award – University of Pittsburgh Graduate School of Public Health, Health Policy & Management department	2010
1st Place Award – Master’s category University of Pittsburgh Graduate School of Public Health Dean’s Day student research competition	2010
Dean’s List – Baylor University	2005, 2007

## PUBLICATIONS

Lin C., Nowalk M. P., **Ncube C. N.**, Al Aaraj Y., Warshel M., and South-Paul J. E. Long-term Outcomes for Teen Mothers Who Participated in a Mentoring Program to Prevent Repeat Teen Pregnancy. *Journal of National Medical Association*. Under review.

**Ncube, C. N.**, Enquobahrie, D. A., Burke, J. G., Ye, F., Marx, J., and Albert, S. M. Racial Disparities in the Transgenerational Transmission of Low Birthweight Risk. *Ethnicity & Health*, **2017** doi: 10.1080/13557858.2017.1378804

**Ncube C. N.**, Enquobahrie, D. A. and Gavin, A. R. Racial Differences in the Association between Maternal Antenatal Depression and Preterm Birth Risk: A Prospective Cohort Study. *Journal of Women's Health*, **2017** doi: 10.1089/jwh.2016.6198

**Ncube C. N.**, Gavin A. R., Williams M. A., Qiu C., Sorensen T. K., and Enquobahrie D. A. Sex-specific Associations of Maternal Birthweight with Offspring Birthweight in the Omega Study. *Annals of Epidemiology*. **2017**, 27 (5), 308-314. doi: 10.1016/j.annepidem.2017.04.006

**Ncube, C. N.**, Enquobahrie, D. A., Burke, J. G., Ye, F., Marx, J., and Albert, S. M. Transgenerational Transmission of Preterm Birth Risk: The Role of Race and Socio-economic Neighborhood Context. *Maternal and Child Health Journal*, **2017**, 21 (8), 1616-1626. doi: 10.1007/s10995-016-2251-2

**Ncube C. N.** and Mueller, B. A. Daughters of mothers who smoke: In utero tobacco exposure and subsequent prenatal smoking in female offspring. *Paediatric and Perinatal Epidemiology Journal*, **2017**, 31 (1), 14-20. doi:10.1111/ppe.12330

**Ncube, C. N.**, Enquobahrie, D. A., Albert, S. M., Herrick, A. L., and Burke, J. G. Association of Neighborhood Context with Offspring Risk of Preterm Birth and Low Birthweight: A Systematic Review and Meta-Analysis of Population-based Studies. *Social Science & Medicine*, **2016**, 153, 156-164. doi: 10.1016/j.socscimed.2016.02.014

Dubowitz, T., **Ncube, C.**, Leuschner, K., and Tharp-Gilliam, S. A Natural Experiment Opportunity in Two Low-Income Urban Food Desert Communities: Research Design, Community Engagement Methods, and Baseline Results. *Health Education and Behavior*, **2015**, 42 (1 Suppl), 87S-96S.

South-Paul, J. E., **Ncube, C. N.**, Lin, C. J., Nowalk, M. P., Kagwima, R. N., Wheeler, E. A., Matambanadzo, A., and Adeyeye, A. Strategies for Recruitment and Retention of Teen Mothers in a Program to Prevent Repeat Pregnancy. *Journal of Adolescent and Family Health*, **2014**, 6 (2) Article 1.

Nowalk, M. P., Clinch, C R., Tarn, D. M, Chang, T., **Ncube, C. N.**, Troy, J. A, and Zimmerman, R. K. "Shots by STFM: Value of Immunization Software to Family Medicine Residency Directors: A CERA Study." *Family Medicine*, **2012**, 44 (10), 716-718.

## CONFERENCE ORAL PRESENTATIONS

(\* denotes presenter)

**Ncube C. N.\***, Souter V. L. Maternal race- and fetal sex-specific antepartum and intrapartum stillbirth rates and initiating causes of death: a population-based study. Presented at the Society for the Analysis of African American Public Health Issues (SAAPHI) annual Scientific Symposium, Atlanta, GA, November 4, 2017

Fray S., **Ncube C.\***, Adamson L., Hughes E. Lin C. J., Nowalk M. P., Gambrah E., South-Paul J. E.\* Retention of adolescent participants in a longitudinal research study through iterative surveillance, modification, and reevaluation [workshop]. Presented at the annual North American Primary Care Research Group (NAPCRG) meeting, New York, NY, November 21-25, 2014

**Ncube C.\*** The Generational Transmission of Risk for Low Birth Weight: an Examination of Health Disparities. Presented at the Society for the Analysis of African American Public Health Issues (SAAPHI) annual Scientific Symposium, New Orleans, LA, November 12, 2014

Misawa A. N.\* , **Ncube C. N.**, Adamson L, Lin C. J., South-Paul J. E. Young Men's Perceptions of Parenthood and Their Definition of Fatherhood. Presented at the UPMC Health Disparities Conference, Pittsburgh, PA, October 26, 2012

**Ncube C. N.\***, Kagwima N., Adeyeye A., Wheeler E., Matambanadzo A., South-Paul J. Challenges to Recruitment of Teenage Mothers in a Study Targeting the Prevention of Repeat Teen Pregnancy. Presented at the annual Society of Teachers of Family Medicine Conference, New Orleans, LA, April 27-May 1, 2011

Matambanadzo A.\* , **Ncube C. N.\*** Challenges Faces by Zimbabwean Students Due to the Current Economic and Political Crises. Presented at the University of Pittsburgh Africana Studies Conference on Education, Pittsburgh, PA, 2009

## INVITED TALKS

**Ncube C. N.**, Wamai, R. & Ghosh, R. (February 2018). *Maternal and Child Health*. Panel organized by Partners in Health Engage, Northeastern University, Boston, Massachusetts.

**Ncube C. N.** (February 2018). *Racial and ethnic disparities in birth outcomes*. Preconception Peer Education Training, Northeastern University, Boston, Massachusetts.

**Ncube C. N.** (January 2018). *Racial/ethnic disparities in adverse birth outcomes: steps towards understanding the role of structural determinants*. Roundtable hosted jointly by the Center for Health Policy and Law, and Institute of Urban Health Research, Northeastern University, Boston, Massachusetts.

**Ncube C. N.**, Wilds, C., Wei, C., Kavanaugh, M. & Bharga, T. (January 2018). Doctoral student alumni panel organized by the Department of Behavioral and Community Health Sciences, University of Pittsburgh, Pittsburgh, Pennsylvania.

## CONFERENCE POSTERS

**Ncube C. N.**, Gavin A. R., Williams M. A., Qiu C., Sorensen T. K., and Enquobahrie D. A. Sex-specific Associations of Maternal Birthweight with Offspring Birthweight in the Omega Study. To be presented at the 30<sup>th</sup> Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research Seattle, WA, June 19-20, 2017

**Ncube C.**, Enquobahrie D, Gavin A. Racial Disparities in the Association between Maternal Depression and Preterm Birth Risk. Presented at the 29<sup>th</sup> Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 20-21, 2016

**Ncube C.**, Enquobahrie D, Albert S, Burke J. Association of Neighborhood Context with Offspring Risk of Preterm Birth and Low Birthweight: A Systematic Review and Meta-Analysis of

Population-based Studies. Presented at the 29<sup>th</sup> Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 20-21, 2016

**Ncube C**, Enquobahrie D, Burke J, Albert S. Racial Disparities in the Transgenerational Transmission of Low Birthweight Risk. Presented at the 29<sup>th</sup> Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 20-21, 2016

**Ncube C**, Mueller B. Daughters of mothers who smoke: In utero tobacco exposure and subsequent prenatal smoking in female offspring. Presented at the 29<sup>th</sup> Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Miami, FL, June 20-21, 2016

**Ncube C**, Enquobahrie D, Burke J, Albert S. Racial Disparities in the Transgenerational Transmission of Low Birthweight Risk. Presented at the 2016 Epidemiology Congress of the Americas meeting, Miami, FL, June 21-24, 2016

**Ncube C**, Enquobahrie D, Burke J, Albert S. Transgenerational Transmission of Preterm Birth Risk: The Role of Race and Socio-economic Neighborhood Context. Presented at the 2016 Epidemiology Congress of the Americas meeting, Miami, FL, June 21-24, 2016

**Ncube CN**, Burke JG, Enquobahrie DA, Ye F, Marx J, Reiber GE, Voorhees R, Albert SM. Racial disparities in preterm birth: do mother's gestational age at birth and neighborhood social and economic factors matter? Presented at the 28th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER), Denver, CO, June 15-16, 2015

**Ncube C**, Hughes E, Fray S, Nowalk M P, Lin, C, Adamson L, Gambrah E, South-Paul J. Ethical Challenges in the Maikuru Program – a Longitudinal Intervention to Prevent Repeat Teenage Pregnancy. Presented at the annual Adolescent Health Research Symposium, Pittsburgh, PA, May 22, 2014

**Ncube C N**, Lin C J, Adamson L A, South-Paul J E. Association Between Maternal Depression, Contraception Use, Adolescent Repeat Pregnancy Status, and Risky Behaviors. Presented at the annual Society of Teachers of Family Medicine Conference, Baltimore, MD, May 1-4, 2013

Adamson L A, **Ncube C N**, Lin C J, South-Paul J E. Group Engagement as a Complement to One on One Mentoring: Preliminary Data from a Longitudinal Study Designed to Reduce Repeat Teen Pregnancy. Presented at the annual Society of Teachers of Family Medicine Conference, Baltimore, MD, May 1-4, 2013

Misawa A N, **Ncube C N**, Lin C J, Adamson L A, South-Paul J E. Young Men's Perceptions of Parenthood and Experiences with Fatherhood. Presented at the annual Society of Teachers of Family Medicine Conference, Baltimore, MD, May 1-4, 2013

**Ncube C**, Adamson L, Lin CJ, South-Paul J. Mentoring Teen Mothers to Delay Repeat Pregnancy. Presented at the annual Science of Eliminating Health Disparities Summit, National Harbor, MD, December 17-19, 2012

**Ncube C**, Kagwima N, Adeyeye A, Wheeler E, Matambanadzo A, South-Paul J. Challenges to Recruitment of Teenage Mothers in a Study Targeting the Prevention of Repeat Teen Pregnancy. Presented at the Health Disparities Poster Competition, University of Pittsburgh, Pittsburgh, PA, April 11, 2011

**Ncube C**, Kagwima N, Adeyeye A, Wheeler E, Matambanadzo A, South-Paul J. Challenges to Recruitment of Teenage Mothers in a Study Targeting the Prevention of Repeat Teen Pregnancy. Presented at the annual Preventive Medicine Conference, San Antonio, TX, February 17, 2011

**Ncube C**, Kagwima N, Adeyeye A, Wheeler E, Matambanadzo A, South-Paul J. Challenges to Recruitment of Teenage Mothers in a Mentoring Program. Presented at the annual University of Pittsburgh Science Conference, University of Pittsburgh, Pittsburgh, PA, October 7-8, 2010

## TEACHING EXPERIENCE

### Adjunct Faculty

Lake Washington Institute of Technology, School of Health Sciences, Kirkland, WA

EPID 435 Field Epidemiology, 5 credits

fall 2016

- Taught all senior undergraduate students in the Epidemiology track of the Bachelor of Applied Science - Public Health degree
- Developed course curriculum, lecture materials and group activities
- Developed and graded student examinations
- Evaluated very highly by students with regard to content expertise, ability to teach course material, organization skills and preparedness, respect for students, and the ability to stimulate discussion and engage students

### Guest lecturer

University of Washington, Seattle, WA

162C General Studies

summer 2015

"Discovery Seminar: Fetal Origins of Adult Diseases – a Public Health Perspective."

Lecture topic: "Poor birth outcomes: the role of socioeconomic status and neighborhood context"

Northeastern University, Boston, MA

HSCI 1000 Introduction to College seminar

fall 2017

PHTH 4120 Global perspective on discrimination and health

spring 2018

Lecture topic: "Racial and ethnic disparities in adverse birth outcomes"

## STUDENT SUPERVISION

Lauren Ansong, MPH capstone committee member

spring 2018

## GRANTS

Understanding racial and ethnic disparities in preterm birth: a systems science approach  
[Under Review]

Source: NIH NIMHD K01; Role: PI

Health disparities in perinatal outcomes: the application of causal inference and system science methods [Under Review]

Source: NIH NIMHD Loan Repayment Program; Role: PI

Maikuru Program – Mentorship for Teen Mothers.

Source: Heinz Endowments; Amount: \$100,000; Period: 11/2011 – 12/2014; Role: Co-Investigator (PI: Jeannette E. South-Paul)

We Can: Teen Pregnancy Prevention Continuation Program.

Source: The Grable Foundation; Amount: \$9,000; Period: 05/2011 – 12/2014; Role: Co-PI with Jeannette E. South-Paul

## MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

Society for Epidemiologic Research	2015 – current
Society for Pediatric and Perinatal Epidemiologic Research	2015 – current
American Public Health Association	2013 – 2014, 2017
Society for the Analysis of African American Public Health Issues	2013 – 2014, 2017

## TRAINING

National Research Mentoring Network Grant Writing Coaching Group	10/2017 – 5/2018
MIT IMPACT Program fellow	fall 2017
Introduction to Behavioral Modeling and Simulation course	summer 2013
Pennsylvania Preparedness Leadership training	2/2012 – 3/2012

## OTHER RELEVANT PROFESSIONAL EXPERIENCE

### **Contractor: Project Coordinator**, May – December 2014

Allegheny County Health Department, Maternal and Child Health Program, Pittsburgh, PA  
Coordinator of a collaborative county-wide effort to reduce infant mortality, other adverse birth outcomes, and racial/ethnic disparities therein, using the Life Course Framework. Grant funded at ~\$250,000

- Planning and evaluating a county-wide media campaign
- Facilitating a maternal and child health strategic planning committee around infant mortality disparities
- Coordinating and evaluating training sessions on trauma-informed care and domestic violence for home visiting agencies
- Assisting in the implementation of a supplemental prenatal risk assessment form in order to facilitate systematic surveillance in the county
- Assessing capacity of home visiting agencies and assisting in the establishment of a coordinated referral system

### **Bridging the Gaps Intern**, May – August 2011

University of Pittsburgh, Program for Health Care to Underserved Populations Pittsburgh, PA

- Measuring vital signs during the medical intake process in a clinic serving the uninsured and underinsured; assisting in pharmacy with dispensing medications; and, counseling patients attending smoking cessation clinic
- Developing an innovative, user-friendly, patient-centered assessment tool to monitor smoking behaviors over time, based on the Transtheoretical Model's Stage of Change, and designing pamphlets to address identified motivators/barriers to smoking cessation.

### **Infant Safe Sleep Outreach Intern**, May – August 2009

Allegheny County Health Department, Pittsburgh, PA

- Presenting education at health fairs and community events about methods to reduce sudden infant death syndrome in minority population groups in the County
- Networking with clergy and establishing partnerships to present information to church members in order to increase knowledge about safe sleep practices
- Collecting primary data from Home Visiting Network agencies in the county on their policies, practices, and documentation of infant sleep environment in the homes of their clients. This information was used as the basis of my Master's Essay and the report

written was used by the Health Department to further efforts of preventing Sudden Infant Death in the County.

**Personal Assistant to the Director and HIV/AIDS Educator, Spring 2004**

Family Impact, Bulawayo, Zimbabwe

- Planning and coordinating the week long itineraries of 3 teams, of 5-10 members, from the USA and UK participating in community service mission trips in Zimbabwe
- Assisting with life skills and safer sex education at youth camps
- Assisting with HIV/AIDS education, through dramas and talks, presented in the workplace of various organizations

**JOURNAL REVIEW**

Paediatric and Perinatal Epidemiology

Social Science and Medicine

Journal of Health Care for the Poor and Underserved

Journal of Adolescent and Family Health

International Journal of Occupational Medicine and Environmental Health

Source Journal of Obstetrics and Gynaecology

Developmental Medicine & Child Neurology

International Journal of Women's Health