

## CURRICULUM VITAE

Montika Bush  
170 Manning Dr  
Chapel Hill, NC 27514

Email: mbush8@unc.edu

### EDUCATION

<b>Doctor of Philosophy, Epidemiology</b> Dissertation Topic: Secondary Prevention Methods after Acute Myocardial Infarction	<b>University of North Carolina</b>	<b>2010 – 2017</b>
<b>Master of Statistics</b> Concentration: Biomedical Statistics	<b>North Carolina State University</b>	<b>2003 – 2005</b>
<b>Bachelor of Electrical Engineering</b> Minor: Computer Science	<b>University of Dayton</b>	<b>1990 – 1994</b>

### PROFESSIONAL EXPERIENCE

<b>Assistant Professor</b> University of North Carolina at Chapel Hill School of Medicine Department of Emergency Medicine	<b>2018 – Present</b>
<b>Research Instructor</b> University of North Carolina at Chapel Hill School of Medicine Department of Emergency Medicine	<b>2016 – 2018</b>
<b>Graduate Research Assistant</b> University of North Carolina at Chapel Hill School of Medicine Department of Emergency Medicine Faculty Advisor: Multiple	<b>2015 – 2016</b>
<b>Instructor</b> Art of Problem Solving Academy Morrisville, North Carolina	<b>2015 – 2016</b>
<b>Graduate Teaching Assistant</b> University of North Carolina at Chapel Hill School of Medicine Course: Clinical Epidemiology (MEDI 220)	<b>2014 – 2016</b>
<b>Graduate Teaching Assistant</b> University of North Carolina at Chapel Hill Gillings School of Global Public Health Department of Epidemiology Course: Special Topics in Epidemiologic Research Using Healthcare Databases (EPID 690)	<b>Spring 2013</b>

**Graduate Research Assistant**

2012 – 2012

University of North Carolina at Chapel Hill  
 Gillings School of Global Public Health  
 Department of Epidemiology  
 Faculty Advisor: Anna Kucharska-Newton, PhD

**Graduate Research Assistant**

2010 – 2013

University of North Carolina at Chapel Hill  
 School of Medicine  
 Department of Emergency Medicine  
 Faculty Advisor: Seth Glickman, MD, MBA

**Biostatistician**

2005 – 2010

Kendle International  
 Durham, North Carolina

**Senior Consultant, Account Manager**

1995 – 2002

Keane Inc.  
 Cincinnati, Ohio

**Lead Research Specialist**

1994 – 1995

Belcan TechServices at Cincinnati Gas & Electric (Cinergy)  
 Cincinnati, Ohio

**HONORS/AWARDS**

Cecil G. Sheps Pre-doctoral Fellowship in Health Services Research	2013 – 2015
Susanne Moulton and Thomas Wong Endowed Scholarship	2010
James Imhotep Irving Public Service Scholarship	2010
UNC Simmons Scholars Program	2018 –

**BIBLIOGRAPHY**

Refereed published papers/articles

**Bush, M.**, Glickman, L. T., Fernandez, A. R., Garvey, J. L., & Glickman, S. W. Variation in the Use of 12-Lead Electrocardiography for Patients with Chest Pain by Emergency Medical Services in North Carolina. *Journal of the American Heart Association* 2, no. 4 (August 23, 2013): e000289. doi:10.1161/JAHA.113.000289.

Platts-Mills T.F., Hollowell A.G., Burke G.F., Zimmerman S., Dayaa J.A., Quigley B.R., **Bush M.**, Weinberger M., Weaver M.A. Randomized controlled pilot study of an educational video plus telecare for the early outpatient management of musculoskeletal pain among older emergency department patients. *Trials* 2018;19(1):10.

**Bush, M.**, Stürmer, T., Stearns, S., Simpson Jr., R. J., Brookhart, M. A., Rosamond, W., & Kucharska-Newton, A. Position Matters: Validation of Medicare Hospital Claims Against Medical Record Review in the Atherosclerosis Risk in Communities Study. *Pharmacoepidemiology and Drug Safety* 2018;1–7. <https://doi.org/10.1002/pds.4396>

**Bush M.**, Simpson RJ Jr, Kucharska-Newton A, Fang G, Stürmer T, Brookhart MA. Approaches to Address Premature Death of Patients When Assessing Patterns of Use of Health Care Services After an Index Event. *Medical Care*. 2018 Jun 5; PubMed PMID: [29877956](#).

Refereed In-Process, unpublished papers/articles

**Bush, M.**, Kucharska-Newton, A., Simpson Jr., R. J., Fang, G., Stürmer, T., & Brookhart, M. A. Effect of Initiating Cardiac Rehabilitation after Myocardial Infarction on Subsequent Hospitalization in Older Adults

Refereed unpublished oral presentation (solicited)

**Bush, M.**, Kucharska-Newton, A., Fang, G., Simpson Jr., R. J., Stürmer, T., & Brookhart, M. A. *Gender Differences in the Predictors of Utilization of Cardiac Rehabilitation Services After Acute Myocardial Infarction Among Medicare Beneficiaries* Agency for Healthcare Research and Quality 21st Annual NRSA Research Trainees Conference (2015).

Refereed unpublished poster presentation (solicited)

**Bush, M.**, Kucharska-Newton, A., Simpson Jr., R. J., Fang, G., Stürmer, T., & Brookhart, M. A. *Effect of Initiating Cardiac Rehabilitation after Myocardial Infarction on Subsequent Hospitalization in Older Adults*. 33<sup>rd</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (2017).

**Bush, M.**, Stürmer, T., Stearns, S., Simpson Jr., R. J., Brookhart, M. A., & Kucharska-Newton, A. *Validation of Myocardial Infarction between Medicare Administrative Data and Physician Review. The Atherosclerosis Risk in Communities Study*. Academy Health's Annual Research Meeting (2015).

**Bush, M.**, Kucharska-Newton, A., Fang, G., Simpson Jr., R. J., Stürmer, T., & Brookhart, M. A. *Use of Cardiac Rehabilitation Services After Acute Myocardial Infarction*. Academy Health's Annual Research Meeting (2014).

**Bush, M.**, Stürmer, T., Stearns, S., Simpson Jr., R. J., Brookhart, M. A., & Kucharska-Newton, A. *Concordance of Myocardial Infarction Between Medicare Administrative Data and Physician Review Panel. The Atherosclerosis Risk in Communities (ARIC) Study*. 30<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (2014).

**Bush, M.**, Stearns, S., Chang, P., Sueta, C., Wruck, L., Carey, T., & Kucharska-Newton, A. *Socioeconomic status and patterns of follow-up care after myocardial infarction the Atherosclerosis Risk in Communities (ARIC) study*. American Heart Association Councils on Epidemiology & Prevention (EPI) and Nutrition, Physical Activity & Metabolism (NPAM) Spring 2013 Scientific Sessions.

Kucharska-Newton, A., **Bush, M.**, Stearns, S., Sueta, C., Chang, P., Carey, T., Wruck, L., *Outpatient Care Following Myocardial Infarction - The Atherosclerosis Risk in Communities (ARIC) Study*. American Heart Association Councils on Epidemiology & Prevention (EPI) and Nutrition, Physical Activity & Metabolism (NPAM) Spring 2013 Scientific Sessions.

## TEACHING RECORD

- MEDI 220: Clinical Epidemiology (Fall 2014, Fall 2015, Spring 2016): Served as co-instructor where I facilitated weekly lectures, group activities, and graded critical review paper for 30-35 students. Course is taught to first and second year medical students in preparation for certification board exam.
- EPID 690: Special Topics in Epidemiologic Research Using Healthcare Databases (Spring 2013): Assisted primary instructor by leading several lectures on connecting to the server and SAS SQL Introduction, assisting students with coding issues, grading homework assignments and attending weekly lectures. Course allowed 20-25 students to use a large private insurance claims database to perform an epidemiologic project.
- Art of Problem Solving Academy (Aug 2015 – Jun 2016): Provided instruction and encouraged active participation from 14-16 students in learning Intermediate Algebra concepts such as factoring quadratic expressions, polynomial division, and differentiating between arithmetic vs. geometric sequences and series over the course of a school year. Classes were held weekly.

## GRANTS

Active

None

Completed

Title: Novel Use of Mobile Integrated Emergency Medical Services to Improve Outcomes of Mental Health Emergencies National Institute of Mental Health

PI: Seth Glickman

Dates: 9/1/2015 – 7/31/2017

Type: R34

Source: Robert Wood Johnson Foundation

Role: Analyst

Title: National Research Service Award (NRSA) Institutional Predoctoral Training Fellowship in Health Services Research

PI: Tim Carey

Dates: 7/1/2013 – 6/30/2014; 7/1/2014 – 6/30/2015;

Type: T32

Source: Agency for Healthcare Research and Quality (AHRQ)

Role: Trainee

Title: Inequalities in Emergency Medical Systems (EMS) and Implications for Regionalized Systems of Health Care Delivery in Minority Populations and Rural Areas

PI: Seth Glickman

Dates: 7/1/2010 – 6/30/2011; 7/1/2011 – 6/30/2012;

Type:

Source: Robert Wood Johnson Foundation

Role: Graduate Research Assistant