

TENAYA M. SUNBURY

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EDUCATION

University of Michigan Ann Arbor, Michigan April 2010

Doctor of Philosophy in Health Behavior and Health Education

Dissertation: "Urban – Rural Influences on Driving Behaviors and Driving Outcomes Among Michigan Young Adults: An Investigation of Roadway Characteristics, Alcohol Establishments, and Social Influences"

Committee Co-Chairs: Edith A. Parker, Dr.P.H.
Jean T. Shope, Ph.D.

Texas State University San Marcos, Texas August 2003

Master of Science in Health Services Research

Thesis: "Desired Body Weight and Dieting Behavior: Findings from the National Health and Nutrition Examination Survey 1988-1994"

Committee Chair: Jean Brender, Ph.D.

Certificate: Biostatistics, December 2002

Certificate: Epidemiology, December 2002

University of Texas Austin, Texas August 1999

Bachelor of Arts in Biology

RESEARCH AND RELEVANT EXPERIENCE

Texas Health and Human Services Commission 2012 - Present

Research Specialist V

- Reviews and analyzes legislation, regulations, and policy requiring evaluation activities
- Prepares and presents research findings on specialized research projects pertaining to fiscal, administrative, or program functions

WIC Participant Centered Services and Funding Strategy 2012 - 2012

(Co-PIs: Karissa Horton, Ph.D. and Jennifer Loyo, Ph.D., R.D.)

Biostatistician

- Developed statistical protocols for program evaluation of state maternal-child health program
- Consulted with other research professionals, administrators, and statistical staff to define and provide policy recommendations
- Managed and analyzed WIC program, New Hampshire demographic and spatial data
- Assisted in proposal team writing grant application and final report

Promoting Community-based Adaptation Planning for Climate Change: Developing a Surveillance and Response Toolkit in Alaska 2010 - 2012

(PI: David Driscoll, Ph.D.)

Post-doctoral Research Fellow

- Coordinated a longitudinal study of community-based observers across 8 site locations
- Developed baseline and surveillance surveys to collected surveillance of climate change related health events
- Managed and analyzed structured observations of sentinel climate change and health events
- Evaluated surveillance system and provided recommendations for improvement
- Provide adaptation/mitigation climate-change strategies related events of public health significance

<p>Geographic Information System (GIS) Consultant 2008 - 2009 (PI: Brisa Sanchez, Ph.D.) <i>Consultant</i></p> <ul style="list-style-type: none"> • Provided GIS recommendations and technical assistance for spatial analyses of public health research projects • Managed and analyzed geographic data from Mexico and California 	
<p>Spatial dimensions of the environment and infant health in Mexico City: Exploring the role of ambient air pollution and social conditions (PI: Marie O'Neill, Ph.D.) 2007 - 2009 <i>Lead Graduate Student Research Assistant</i></p> <ul style="list-style-type: none"> • Supervised and coordinated research activities of three research assistants • Developed research protocols on geocoding approximately 2,000 mother-infant dyads and on characterizing levels of air pollution spatial variability in Mexico City • Managed and analyzed data from the Mexican census at the smallest geographic unit available • Finished project under proposed deadline and wrote department final research report 	
<p>Evaluation of Checkpoints in Michigan 2005 - 2006 (PI: Jean T. Shope, Ph.D.) <i>Graduate Student Research Assistant</i></p> <ul style="list-style-type: none"> • Managed and analyzed data on approximately 200 parent-teen dyad participants • Delivered injury-prevention intervention to approximately 10 - 12 parent-teen dyads each weekend in classroom setting • Disseminated study materials according to randomized research design 	
<p>Texas Health and Human Services Commission 2001 - 2004 <i>Demographic Analyst</i></p> <ul style="list-style-type: none"> • Conducted research and analyses for agency reports, including Behavioral Health Managed Care Report, Consolidated Waiver Project Evaluation (H.B. 2148-76th Texas Legislature), Bi-National Health Benefit Plan Coverage (H.B.2498-77th Texas Legislature) • Provided timely and accurate demographic and socioeconomic data and analyses to support agency activities Developed estimates/projections of potentially eligible populations for key HHSC programs • Compiled statistical reports and disseminated data in response to public and private inquiries 	
<p>Texas Department of State Health Services 2000 - 2001 <i>Statistician</i></p> <ul style="list-style-type: none"> • Coordinated with HHSC agencies and contractors to ensure data quality and integrity before disseminating analysis to internal and external customers • Conducted spatial analysis of Texas Medicaid Managed Care health care delivery systems 	
<p>Texas Department of Health 1999 - 2000 <i>Laboratory Technician</i></p> <ul style="list-style-type: none"> • Processed Biological and Chemical Specimens in accordance with Clinical Laboratory Improvement Amendment (CLIA) regulations • Communicated with health care providers and private citizens regarding specimens 	
TEACHING EXPERIENCE	
<p>Characteristics of Anchorage, Alaska Local Food System 2011 - Present (Thesis Committee Chair: Elizabeth Hodges-Snyder, Ph.D.) <i>Thesis Committee Member</i></p> <ul style="list-style-type: none"> • Assisted student with obtaining secondary spatial data and spatial analytic methods 	
<p>"Behavioral, Psychosocial and Ecological Aspects of Health and Disease " 2008 - 2009 And "Families and Health" (Professor: Linda Chatters, Ph.D.) <i>Teaching Assistant</i></p> <ul style="list-style-type: none"> • Monitored and recorded class participation and reviewed observations with professor • Personal resource for effective classroom communication between students and professor • Assisted professor with class website course content 	
GIS and Public Health	Winter 2009

(Professor: Melissa Valerio, Ph.D.)

Guest Lecturer

LIFEacademy - Nutrition and Wellness

Summer 2006

(Project Manager: TaShara C. Bailey)

Lecturer

- Developed syllabus and overall course with a holistic approach to wellness and health
 - Designed classroom activities to help students make healthier lifestyle choices
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AWARDS AND SCHOLARSHIPS RECEIVED

University of Michigan, Ann Arbor, Michigan

School of Public Health, Janz Memorial Award, June 2009

Rackham and Center for Research on Learning and Teaching (CRLT), Michigan Teaching Fellow, June 2008

Rackham Travel Grant, April 2008

Institute for Social Research (ISR) Social Science Training Award, May 2005

Center for Research on Ethnicity, Culture, and Health (CRECH) Doctoral Training Program, April 2005

Rackham Merit Fellowship, June 2004

Texas State University, San Marcos, TX

College of Health Professions Academic Excellence, April 2003

College of Health Professions Academic Excellence, April 2002

University of Texas, Austin, TX

Tau Beta Sigma Super Service Sister, May 1999

Patsy Hejl Scholarship, September 1998

Longhorn Band General Scholarship, May 1998

CONFERENCE AND INVITED PRESENTATIONS

American Public Health Association, November 2014

Presentation title: "Texas Healthcare Transformation and Quality Improvement Program: Impacts of Medicaid policy change on quality of care for aged and disabled population"

Presentation title: "Applying health service utilization models to the Texas Healthcare Transformation and Quality Improvement Program: Advancing theory-based evaluation."

AcademyHealth, June 2014

Presentation title: "Building an Efficient Hybrid Human Machine System for Ongoing Record Linkage"

American Evaluation Association, November 2013

Presentation title: "Overview of Texas' 1115 Medicaid Demonstration Waiver Evaluation"

American Public Health Association, October 2012

Presentation title: "Emergency preparedness in rural Alaska communities: Climate change adaptation through disaster risk management"

International Congress on Circumpolar Health, August 2012

Presentation title: "Spatio-temporal Analysis of Non-Fatal Falls in Alaska"

Presentation title: "An Exploration of Suicide Risk Factors in Alaska 2003-2006: Combining the Alaska Trauma Registry and Alaska Injury Prevention Center Data"

International Polar Year, April 2012

Presentation title: "Climate Change Impacts on Alaska Population Health: Findings from a Community-based Sentinel Surveillance System"

Arctic Health Sciences Seminar, April 2012

Presentation title: "Emergency Preparedness in Rural Alaska Communities: climate change adaptation through disaster risk management"

Alaska Forum on the Environment, February 2012

Presentation title: "Climate change epidemiology: public health methodological considerations for Alaska"

Alaska Center for Climate Assessment & Policy (ACCAP), November 2011

Presentation title: "A Human Health Perspective on Climate Change: Promoting Community-based Adaptation Planning for Climate Change in Alaska"

Society for Public Health Educators (SOPHE), October 2011

Presentation title: "Community Capacity Determinants for Climate Change Adaptation: An Alaskan Case Study and

Implications for Practice.

University of Alaska Anchorage GIS Users Group, September 2011

Presentation title: "GIS and Public Health: Current Applications and Research Priorities"

University of Alaska Anchorage Institute for Circumpolar Health Studies, July 2011

Presentation title: "GIS and Public Health: Current Applications and Research Priorities"

Aerospace Medical Association, May 2011

Presentation title: "Using a Sentinel Surveillance System to Assess the Human Health Impacts of Climate Change in Alaska"

Classrooms for Climate Change, May 2011

Presentation title: "Assessing the Human Health Impacts of Climate Change in Alaska"

Society for Applied Anthropology, March 2011

Presentation title: "Community and Expert Perceptions of Climate Change and Health Risks in Alaska"

Society for Epidemiologic Research (SER), June 2009

Presentation title: "Environmental justice analyses of air pollutants in Mexico City"

Research Society on Alcoholism (RSA) Conference, June 2008

Presentation title: "Alcohol outlet density and self-reported drink/driving among Michigan young adults"

Center for Social Epidemiology and Population Health, April 2008

Presentation title: "Spatial analyses of socioeconomic position (SEP) and air pollution exposure: environmental justice in Mexico City"

Students of Color of Rackham (SCOR) Conference, February 2008

Presentation title: "Driving Behaviors and Driving Outcomes Among Michigan Young Adults"

Presentation title: "Spatial Dimensions of the Environment and Infant Health in Mexico City: Lessons Learned"

Students of Color of Rackham (SCOR) Conference, February 2007

Presentation title: "Michigan Neighborhoods and Pedestrian Traffic Exposure"

Texas State University College of Health Professions Forum Poster Presentation, February 2003

Presentation title: "Desired Body Weight and Dieting Behavior: Findings from the National Health and Nutrition Examination Survey 1988-1994"

PEER-REVIEWED PUBLICATIONS

Driscoll, D.L., **Sunbury, T.M.** Johnson, J., & Renes, S. (2013). Characteristics of a community-based sentinel surveillance system: Lessons learned from toolkit development. *International Journal of Circumpolar Health*, 72.

Sunbury, T.M. (2013). The role and challenges of utilizing GIS for public health research and practice. *Technology and Innovation*, 52(2), 91-100.

Sunbury, T.M. and Driscoll, D.L. (2012). Characteristics of a community-based sentinel surveillance system: Lessons learned from toolkit development. In *Building Community Capacity: Skills and Principles* (pp. 73-84). Hauppauge, NY: Nova Science Pub Inc.

Ehsani, J.P., Bingham, C.R., Shope, J.T., **Sunbury, T.M.**, & Kweon, B. (2010). Teen driving exposure in Michigan: demographic and behavioral characteristics. *Accident Analysis & Prevention*. 42(4), 1386-1391.

White-Newsome, J., O'Neill, M.S., Gronlund, C., **Sunbury, T.M.**, Brines, S.J., Parker, E., Brown, D.G., Rood, R.B., & Rivera, Z. (2009). Climate change, heat wave, and environmental justice: Advancing knowledge and action. *Environmental Justice*, 2(4), 197-205.

Sunbury, T.M. and M.S. O'Neill (2009). Environmental justice analysis of air pollutants in Mexico City. *American Journal of Epidemiology*, 169, S104-S104. [abstract]

Sunbury, T.M., Bingham, C.R., Shope, J.T., & Raghunathan, T.E. (2008). Alcohol outlet density and self-reported drink/driving among Michigan young adults. *Alcoholism-Clinical and Experimental Research*, 32(6), 64A-64A. [abstract]

ORGANIZATIONS & SERVICE

Alaska Public Health Association (ALPHA)

American Public Health Association (APHA)

Society for Public Health Educators (SOPHE)

Society for Applied Anthropologists (SfAA)

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

Urban and Regional Information Systems Association (URISA)

University of Michigan School of Public Health, Health Behavior and Health Education Department - Faculty Committee Representative

University of Michigan School of Public Health, Health Behavior and Health Education Doctoral Student Organization (HBHEDoc) - Research Discussion organizer

University of Michigan Students of Color of Rackham (SCOR) - Member

University of Michigan Students of Color of Rackham (SCOR) Conference Co-Chair/Registrar

RESEARCH INTERESTS

Environmental health

Social determinants of health

Spatial analytic methods

STATISTICAL AND COMPUTER EXPERIENCE

SAS

SUDAAN (SAS- callable)

GeoDa

STATA

ArcGIS

Microsoft Office products

SPSS
