CURRICULUM VITAE
JUSTIN MANJOURIDES, PHD

Northeastern University
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EDUCATION

2009-2011 **Post-doctoral Fellow**
Department of Biostatistics, Harvard School of Public Health, Boston, MA

2009 **PhD, Biostatistics**
Harvard University, Cambridge, MA

2006 **AM, Biostatistics**
Harvard University, Cambridge, MA

2004 **BA, Statistics (Summa Cum Laude)**
BA, Mathematics
University of Florida, Gainesville, FL

FACULTY APPOINTMENT HISTORY

Sep 2011 - **Assistant Professor, Health Sciences**
Northeastern University, Boston, MA

ADMINSTRATION

Sep 2013 - **Co-Director, Biostatistics Service Center**
Northeastern University, Boston, MA

RESEARCH STATEMENT

I am a biostatistician trained to develop and apply statistical methodologies across disciplines to generate hypotheses, analyze data, and answer major research questions. My primary research agenda is focused on the development and evaluation of novel methodologies to better analyze, quantify, and visualize public health data across disciplines that are prone to mismeasurement, and translating those methodologies to broad applications. My primary areas of application are air pollution epidemiology, occupational health and safety interventions, and the analysis of infectious disease treatment cohorts. However, my strengths in communicating statistical concepts have led to collaborations across diverse disciplines such as spatial epidemiology, nutrition, pharmacology, criminology, physical therapy, and personal health informatics.

AWARDS AND HONORS

2015	**Kenerson Faculty Scholar**, Northeastern University
2013	**Humanities Center Fellow,** Northeastern University
2010	**Volunteer Service Award, Bronze**, President's Council on Service and Civic Participation
2009	**Rose Traveling Fellowship**, Harvard School of Public Health
2009-11	**NIH Training Grant, AIDS**
2006-09	**NIH Training Grant, Infectious Disease Epidemiology and Biodefense**
2009, 2006	**Distinction in Teaching**, Department of Biostatistics, Harvard School of Public Health
2004-06	**NIH Training Grant**, Environmental Statistics

SCHOLARSHIP AND RESEARCH

Publications

Refereed articles (Submitted or In Prep)
*Indicates student author

1. **Manjourides J**, Sparer E*, Okechukwu C, and Dennerlein JT. A simulation study to investigate biases introduced in worksite health and safety interventions on mobile workforce. (*Currently under review, Annals of Work Exposures and Health*)
2. Pun V, **Manjourides J**, Suh HH. Built environment characteristics associated with depressive and anxiety symptoms, and perceived stress in older adults. (*Currently under review, Environment International*)
3. Wurth R*, Kioumourtzoglou M, Tucker KL, Griffith J, **Manjourides J**, and Suh HH. Fine Particle Sources and Cognitive Function in An Older Puerto Rican Cohort. (*Currently under review, Environmental Health Perspectives*)
4. Milstein M*, Mitnick C, and **Manjourides J.** Adjusting for informative censoring in Cox proportional hazards models: application to a multidrug-resistant tuberculosis cohort. (*Currently under review, BMC Medical Research Methodology*)
5. Eum KD, Suh HH, Pun V, and **Manjourides J**. Adjusting for long-term trends in incidence rates of all-cause mortality associated with annual $PM_{2.5}$ exposure: An analysis of 20 million Medicare beneficiaries. (*Submitted, Journal of Exposure Science and Environmental Epidemiology*)
6. Pun V, **Manjourides J**, and Suh HH. Association of neighborhood greenness with self-perceived stress, depression and anxiety symptoms and in older adults. (*Currently under review, American Journal of Psychiatry*)
7. Honda T*, Pun V, **Manjourides J**, and Suh HH. Long-term fine particulate matter exposure is associated with prevalent hypertension and increased blood pressure in older Americans. (*In prep*)
8. Grant M, Okechukwu C, **Manjourides J**, Sparer E, Dennerlein J. Weekly safety inspection scores of the physical working conditions predict weekly worker safety climate scores on six commercial construction sites. (*In prep*)

9. Galloway-Shen J, Milstein M*, Banna J, and **Manjourides J.** Caffeine and endurance sports: a systematic review of the relationship between caffeine's effects and duration of athletic event. (*In prep*)
10. Coull BA, Lee S, McGee G, **Manjourides J**, Mittleman M, Wellenius GA. Corrections for measurement error due to delayed onset of illness for case cross-over designs (*In prep, Biometrics)*
11. Al-Moujahed A, Moledina A, Elze T, **Manjourides J**, Pasquale LR, Song BJ. Patterns of glaucomatous visual field loss associated with diabetes and other features using computationally derived visual field archetypes. (In prep)

Refereed articles (Published)
*Indicates student author

1. Honda T*, Pun V, **Manjourides J**, and Suh HH. (in press). Associations between long-term exposure to ambient air pollution glycosylated hemoglobin, and diabetes. *International Journal of Hygiene and Environmental Health.*

2. Tallon L*, **Manjourides J**, Pun V, Salhi C, and Suh HH. (2017). Cognitive impacts of ambient air pollution in the National Social Health and Aging Project (NSHAP) cohort. *Environment International*, 104, 102-109.

3. Tallon L*, **Manjourides J**, Pun V, Mittleman M, Kioumourtzoglou M, Coull B, and Suh HH. (2017) Erectile dysfunction and exposure to ambient air pollution in a nationally representative cohort of older men. *Environmental Health*, 16(1), 12-20.

4. Honda T*, Pun V, **Manjourides J**, and Suh HH. (2017) Anemia prevalence and hemoglobin levels are associated with long-term exposure to air pollution in an older population. *Environment International,* 101, 125-132.

5. Pun V, Kazemiparkouhi F*, **Manjourides J**, and Suh HH. (in press). Long-term $PM_{2.5}$ exposures and cardiovascular, respiratory, and cancer mortality among Medicare enrollees. *American Journal of Epidemiology*.

6. Pun V, **Manjourides J**, and Suh HH. (2017). Association of ambient air pollution with depression, anxiety and perceived stress in older adults: results from the NSHAP study. *Environmental Health Perspectives,* 125(3), 342-348.

7. Tierney D, Milstein M*, **Manjourides J**, Furin JJ, and Mitnick C. (2016). Outcomes for adolescents undergoing multidrug-resistant tuberculosis treatment in Lima, Peru. *Global Pediatric Health,* 3(1), 1-5.

8. Intille S, Haynes C*, Maniar D, Ponnada A*, and **Manjouride J**. (2016). μEMA: Microinteraction-based ecological momentary assessment (EMA) using a smartwatch. CHI: Conference for Computer Human Interaction. *In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing, 1124-1128.*

9. Zhang Z, **Manjourides J**, Cohen T, Hu Y, and Jiang, Q. (2016). Spatial measurement errors in the field of spatial epidemiology. *International Journal of Health Geographics*, 15(1), 21-33.

10. Zelner J, Murray M, Becerra M, Galea J, Lecca L, Calderon R, Yataco R, Contreras C, Zhang Z, **Manjourides J,** Grenfell B, and Cohen T. (2015). Identifying hotspots of multidrug-resistant tuberculosis transmission using spatial and molecular genetic data. *Journal of Infectious Diseases*, 213(2), 287-294.

11. Sparer E*, Okechukwu C, **Manjourides J**, Herrick R, Katz J, and Dennerlein JT. (2015). Length of time spent working on a commercial construction site and the associations with worker characteristics. *American Journal of Industrial Medicine*, 58(9), 964-973.

12. Yen S-C, Corkery M, Chui KK, **Manjourides J**, Yang Y-C, and Resnik LJ. (2015). Risk adjustment for lumbar dysfunction: a comparison of linear mixed models with and without inclusion of between-clinic variation as a random effect. *Physical Therapy*, 95(12), 1692-1702.

13. Edwards R, Bickmore T, Jenkins L, Foley M, and **Manjourides J**. (2013). Use of an interactive computer agent to support breastfeeding. *Maternal and Child Health Journal*, 17(10), 1961-1968.

14. Torbic H, Papadopoulos S, **Manjourides J**, and Devlin J. (2013). Impact of a protocol advocating dexmedetomidine over propofol sedation after robotic-assisted, direct coronary artery bypass surgery on duration of mechanical ventilation and patient safety. *Annals of Pharmacotherapy*, 47(4), 441-446.

15. Cohen T, **Manjourides J**, and Hedt-Gauthier B. (2012). Linking surveillance with action against drug-resistant tuberculosis. *American Journal of Respiratory and Critical Care Medicine*, 186(5), 399-401.

16. **Manjourides J**, Lin H, Shin S, Jeffery C, Contera C, Cruz J, Oswaldo J, Asencios L, and Cohen T. (2012). Identifying multidrug resistant tuberculosis transmission hotspots in a South American setting using routinely collected data. *Tuberculosis*, 92(3), 273-279.

17. **Manjourides J** and Pagano M. (2011). Improving chronic disease surveillance by incorporating residential history. *Statistics in Medicine*, 30(18), 2222-2233.

18. Park P, **Manjourides J**, Bonetti M, and Pagano M. (2009). A permutation test for determining significance of clusters with applications to spatial and gene expression data. *Journal of Computational Statistics and Data Analysis*, 53(12), 4290-4300.

19. Edillo F, Kiszewski A, **Manjourides J**, Pagano M, Hutchinson M, Kyle A, Arias J, Gaines D, Lampman R, Novak R, and Foppa I. (2009). The effects of latitude and longitude on the population structure of the Culex pipiens complex mosquito vectors of West Nile virus in eastern North America. *American Journal of Tropical Health and Hygiene*, 81(5), 842-848.

20. Ozonoff A, Jeffery C, **Manjourides J**, White L, and Pagano M. (2007). Effect of spatial resolution on cluster detection: a simulation study. *International Journal of Health Geographics*, 6(1), 52.

Non-refereed articles

1. Cohen T, Lin H, Shin S, Jeffery C, Contera C, Cruz J, Oswaldo J, Asencios L, and **Manjourides J**. (2012). Re: Supporting health systems for tuberculosis through research. *Tuberculosis*, 92(4), 290.

Abstracts

1. Sparer E, Okechukwu C, **Manjourides J**, Herrick R, Katz J, and Dennerlein JT. (2014). Patterns of site-employment of construction workers on and off commercial construction sites in New England and the relationship to musculoskeletal pain. *Occupational and Environmental Medicine*, 71(1), A5.

2. Noel S, **Manjourides J,** Scott T, Spiro III A, and Tucker KL. (2013). Coffee intake and cognitive functioning in men. *The FASEB Journal*, 27(1), 840.

3. Hickson D, Gao Y, Talegawkar S, Liu J, **Manjourides J,** Roux A, and Tucker KL. (2013). Lifecourse socioeconomic position and dietary intakes and patterns in the Jackson Heart Study. *The FASEB Journal*, 27(1), 120.

4. Jeffery C, **Manjourides J**, Ozonoff A, and Pagano M. (2010). Incorporating data on residential history for disease mapping. *ASA Proceedings of the Joint Statistical Meetings*, Section on Statistics in Epidemiology [CD-ROM].

5. **Manjourides J**, Jeffery C, Ozonoff A, and Pagano M. (2007). The use of distances in surveillance. *ASA Proceedings of the Joint Statistical Meetings*, Section on Statistical Computing [CD-ROM].

Presentations

Invited

1. "Reducing bias in cohort studies with applications to air pollution epidemiology and infectious diseases." Friedman Seminar Series, Tufts University. 2017.

2. "Recognizing and adjusting for spatial uncertainties in health data: two case studies." Geographic Information Systems Special Interest Group (GISSIG), National Cancer Institute. Washington DC. 2015.

3. "Simulating the effects of interventions on a mobile work force." Seminar in Occupational and Environmental Health Research. Harvard School of Public Health. Boston, MA. 2014.

4. "'Viral Culture', Effective collaborations across the disciplines." (Panelist), Northeastern University Humanities Center. Boston, MA. 2014.

5. "Identifying multidrug resistant tuberculosis transmission hotspots using routinely collected data." International Society for Disease Surveillance. San Diego, CA. 2013.

6. "Improving disease surveillance by incorporating residential histories." Department of Biostatistics, University of Oslo. Norway. 2010.

7. "Improving disease surveillance by incorporating residential histories." American Public Health Association (APHA). Philadelphia, PA. 2010.

Contributed

1. Milstein M*, Gelmanova I, Keshavjee S, **Manjourides J**. A prediction model of mortality after initial treatment outcome in multidrug-resistant tuberculosis patients. *2017 UNION World Conference on Lung Health*. Guadalajara, Mexico. October 201. (Accepted)

2. Milstein M*, Mitnick C, **Manjourides J**. Protective effect of MDR-TB treatment on death underestimated by informative censoring. *2016 UNION World Conference on Lung Health*. Liverpool, United Kingdom. October 2016.

3. Tallon L*, **Manjourides J**, and Suh HH. Air pollution and erectile dysfunction in older men. *2016 Conference of the American Journal of Public Health Association*. Denver, CO. October 2016.

4. Eum KD, Suh HH, Pun V, and **Manjourides J**. Adjusting for long-term temporal trends in incidence rates of all-cause mortality associated with 1-year average $PM_{2.5}$ concentrations: an analysis of over 20 million Medicare beneficiaries between 2000-2012. *2016 Annual Conference of the International Society of Environmental Epidemiology*. Rome, Italy. September 2016.

5. Tallon L*, **Manjourides J**, Pun V, and Suh HH. Cognitive impacts of ambient air pollution in the National Social Health and Aging Project (NSHAP) cohort. *2016 Annual Conference of the International Society of Environmental Epidemiology*. Rome, Italy. September 2016

6. Pun V, **Manjourides J**, and Suh HH. Exposure to traffic pollution and increased risk of depressive and anxiety symptoms in older adults. *2016 Annual Conference of the International Society of Environmental Epidemiology*. Rome, Italy. September 2016

7. Honda T*, Pun V, **Manjourides J**, and Suh HH. Associations between long-term exposure to air pollution, glycosylated hemoglobin and diabetes. *2016 Annual Conference of the International Society of Environmental Epidemiology*. Rome, Italy. September 2016.

8. Pun V, Kazemiparkouhi F*, **Manjourides J**, and Suh HH. Long-term $PM_{2.5}$ exposures and cardiovascular, respiratory, and cancer mortality among Medicare enrollees. *2016 Annual Conference of the International Society of Environmental Epidemiology*. Rome, Italy. September 2016.

9. Kazemiparkouhi F*, Pun V, Eum KD, **Manjourides J**, and Suh HH. Incidence rates of cause-specific mortality associated with yearly ozone concentrations: an analysis of over 15 million Medicare beneficiaries between 2000-2008. *2016 Annual Conference of the International Society of Environmental Epidemiology*. Rome, Italy. September 2016.

10. **Manjourides J.** Developing advanced statistics for beep baseball, and adaptive form of baseball for blind and visually impaired athletes. *SaberSeminar*. Boston MA. 2015

11. **Manjourides J**, Sparer E*, and Dennerlein JT. Designing health interventions for construction workers: implications of length-biased sampling. *Work Stress and Health*. Atlanta, GA. 2015

12. Tallon L*, Pun V, **Manjourides J**, and Suh HH. Air pollution and erectile dysfunction in older men. *2015 Annual Conference of the International Society of Environmental Epidemiology*. Sao Paolo, Brazil. August 2015.

13. Pun V, **Manjourides J**, and Suh HH. Air pollution and adverse psychological health in older adults: results from the NSHAP study. *2015 Annual Conference of the International Society of Environmental Epidemiology*. Sao Paolo, Brazil. August 2015.

14. Milstein M*, Tierney D, **Manjourides J**, Furin J, Mitnick C. Outcomes for adolescents undergoing multidrug-resistant tuberculosis treatment in Lima, Peru. *2015 UNION World Conference on Lung Health*. Cape Town, South Africa. December 2015.

15. **Manjourides J,** Sparer E*, and Dennerlein JT. Simulating the effects of interventions on a mobile work force. *1st International Symposium to Advance Total Worker Health, National Institute for Occupational Safety and Health*. Bethesda, MD. 2014.

16. Sparer E*, **Manjourides J**, and Dennerlein JT. Patterns of site-employment of construction workers on and off commercial construction sites in new England and the relationship to musculoskeletal pain. *24th International Epidemiology in Occupational Health (EPICOH)*. Chicago, IL. 2014.

17. Tallon L*, **Manjourides J,** Pun V, and Suh HH. Cognitive impacts of air pollution. *International Society for Environmental Epidemiology*. Seattle, WA. 2014

18. **Manjourides J,** Jeffery C, Pagano M. Disease mapping with spatially uncertain data. *2012 International Society for Disease Surveillance Conference*. San Diego, CA. 2012

19. **Manjourides J** and Pagano M. Improving disease surveillance by incorporating residential histories. *The CDC Statistical Advisory Symposium on Statistical Methods. InfoFusion*. Decatur, GA. 2009

20. **Manjourides J** and Pagano M. Improving disease surveillance by incorporating residential histories*. Spring Meeting of the Eastern North American Region (ENAR) of the International Biometric Society*. San Antonio, TX. 2009.

Posters

1. Savitz DA, Eliot M, Danilack VA, **Manjourides J**, Wellenius GA. Is Delivery Hospital an Unrecognized Confounder in Studies of Air Pollution and Pregnancy Outcome? *Society for Epidemiologic Research Annual Meeting*. Seattle, WA. 2017.

2. **Manjourides J**, Hickson D, Talegawkar S, Liu J, Tucker KL. The effects of neighborhood and individual level covariates on individual dietary patterns: The Jackson Heart Study. *Experimental Biology*. Boston, MA. 2013.

3. Noel S, **Manjourides J**, Scott TM, Spiro A, Tucker KL. Coffee intake and cognitive function in Men. *Experimental Biology*. Boston, MA. 2013.

4. **Manjourides J** and Pagano M. Application of the M-Statistic to two-sample spatial data. *The Freeman Symposium at the Harvard School of Public Health.* Boston, MA. 2007.

Research Grant Applications

External (Active)

P50 Center for Research on Early Childhood Exposure and Development in Puerto Rico (CRECE)
Source: NIEHS/ EPA. Total Amount: $4,999,537. Period: 9/1/2015-8/31/2019.
Role: Project 1: Subcontract PI, Project 2: Co-Investigator (PI: Alshawabkeh): Develop and build longitudinal models to estimate effects of multiple pollutants on adverse birth outcomes, while adjusting for data missingness and incorporating multiple exposure windows.

U19 Integrated Worksite Approaches for Worker Wellbeing
Source: CDC. Amount: $839,107. Period: 09/01/16-08/31/2021.
Role: Project 2: Co-Principal Investigator (PI: Sorenson): Design and analysis of a cluster-randomized clinical trial to improve health and safety of construction workers.

UG3 Environmental Influences on Child Health Outcomes in Puerto Rico (ECHO-PRO)
Source: NIH/ NIEHS. Period: 09/01/16-08/31/2023.
Role: Co-Investigator (PI: Alshawabkeh): Develop and build longitudinal models to estimate effects of multiple pollutants on adverse birth outcomes, while adjusting for missingness and incorporating multiple exposure windows.

Development of a Medicare Cohort Dataset for Use in Air Pollution Epidemiological Research
Source: Electric Power Research Institute. Amount: $623,868. Period: 08/15/2014-03/31/2016.
Role: Co-Investigator (PI: Suh): Fitting and interpreting linear models to simultaneously estimate cross-sectional and longitudinal effects of air pollution on mortality, while identifying residual confounding.

U60 Development and Evaluation of Contractor Safety Pre-Qualification Tool
Source: NIOSH/CPWR. Amount: $986,000. Period: 09/1/2014-08/31/2019.
Role: Co-Investigator (PI: Dennerlein): Development and cross-validation of a zero-inflated Poisson regression model to predict lagging safety outcomes from leading programmatic safety indicators.

R01 Impact of Air Pollution, Weather, and Lifestyle on Health in Older Americans
Source: NIH/ NIEHS. Amount: $1,290,167. Period: 10/01/2013-09/30/2017.
Role: Co-Investigator (PI: Suh): Linear and longitudinal random-effects models of the associations between air pollution and prevalent and incident health outcomes in an elderly population.

Examination of Dose-Response Curves for Low Chronic Ambient Fine Particulate Concentrations and Mortality using the Medicare Cohort Dataset
Source: Electric Power Research Institute. Amount: $150,735. Period: 04/01/2015-12/31/2016.

Role: Co-Investigator (PI: Suh): Stratified Cox proportional hazards modeling applied to a cohort of 20 million people.

Randomized Control Trial of a Whole-Body Vibration Intervention on Truck Drivers
Source: NIOSH. Amount: $2,199,302. Period: 09/01/2013-08/31/2018.
Role: Co-Investigator (PI: Dennerlein): Analysis of a randomized control trial.

Using Novel Big Data Approaches to Improve Public Health
Source: Electric Power Research Institute. Amount $50,000. Period: 07/01/2015-09/30/2016.
Role: Co-Investigator (PI: Suh): Adapting Cox proportional hazards models to handle the big data challenges of analyzing the entire Medicare cohort.

External (Pending)

[Pending] R01 Dynamics of smoking behavior within the social networks of adults with tobacco-related cancers
Source: NIH
Role: Co-Investigator (PI: Poghosyan). Annual Direct: $540,820 Total Direct: $2,826,082
Period: 09/01/17-08/31/22

[*Pending*] R21 Point-and-Click Accelerometer Data Visualization and Interpretation: Enabling Researchers to Use Validated State-of-the-Art Machine Learning Approaches on Sensor Data at Any Scale
Source: NIH.
Role: Co-Investigator (PI: Intille). Annual Direct: $465,782 Total Direct: $1,936,041
Period: 04/01/17-03/31/21.

[*Pending*] R21 Examining the Interplay of Sucking, Feeding, and Vocal Development in the First Year of Life
Source: NIH.
Role: Co-Investigator (PI: Zimmerman). Annual Direct: $100,000 Total Direct: $300,000
Period: 09/01/2017-08/31/2020.

[*Pending*] R21 Examining Sucking, Feeding, and Cardiorespiratory Patterning in Zika-Exposed Infants in Puerto Rico
Source: NIH.
Role: Co-Investigator (PI: Zimmerman). Annual Direct: $170,680 Total Direct: $321,294
Period: 04/01/2018-08/31/2020

[*Pending*] F31 Quantification and Correction of Biases Observed in Survival Analyses for MDR-TB Cohort Data
Source: NIH.
Role: Primary Sponsor. Annual Direct: $43,576 Total Direct: $88,459
Period: 12/01/17-08/31/2018

[*Pending*] R01 Air Pollution and Other Antecedents of Cognitive Disorders in Early Childhood: An Analysis of a Complete Massachusetts Birth Cohort
Source: NIH.
Role: Sub Co-Investigator (PI: Suh). NU Annual Direct: $115,314. NU Total Direct $480,886
Period: 07/01/17-06/30/22

[*Pending*] R01 Air Pollution Mortality Risk: A Hybrid Epidemiology – Data Mining – Visualization Approach to Explore Spatiotemporal Heterogeneity Across All ZIP Code Areas of the Coterminous US
Source: NIH.
Role: Sub-PI (PI: Suh). NU Annual Direct: $111,373 NU Total Direct: $664,839
Period: 09/01/17-08/31/22

Internal (Active)

Development and Modification of an Image-based Implicit Food Attitude Measure
Source: Northeastern University College of Arts, Media, and Design Faculty Research and Creative Incentive Grants (FRCAIG). Role: Co-Investigator (PI: Lu). Amount $10,000. Period: 05/01/2016-04/30/2017.

External (Completed)

U19 Project B: Integrated Approaches to Health and Safety in a Dynamic Construction Work Environment
Source: CDC. Role: Co-Investigator (PI: Sorensen). Amount: 1,348,275. Period: 9/1/2011-8/31/2016.

R21 Multilevel Determinants of Cardiovascular Disease Risk in African Americans
Source: NIH/ NINR. Role: Co-Investigator (PI: Tucker). Amount: $326,014. Period: 4/1/12-3/31/17.

Expanding Use of a Computer Agent to Support Breastfeeding
Source: Hood Foundation. Role: Statistician (PI: Edwards). Amount: $136,364. Period: 8/1/2012-7/31/2014.

Randomized Controlled Trial of a Whole-Body Vibration Intervention in Truck Drivers
Source: State of Washington, Department of Labor and Industries. Role: Co-Investigator (PI: Johnson). Amount: $31,905. Period: 12/01/2012-10/31/2013.

Internal (Completed)

Simulation of Construction Workers to Estimate and Mitigate the Effects Source: HSPH/NIH. Role: Co-Principal Investigator. Amount: $22,067. Period: 01/01/2014-12/31/2014.

A Spatial and Temporal Analysis of Drug Overdose and Homicide Mortality in Miami Communities
Source: Northeastern University Program on Health Policy and Law. Role: Co-Principal Investigator. Amount: $6,500. Period: 09/01/2012-08/31/2013.

TEACHING

<u>**Northeastern University**</u>

<u>Lead Instructor, Course Developer</u>. Biostatistics in Public Health (PHTH 5210). Graduate. Taught Spring 2012 (24 students), Fall 2012 (10 students), Fall 2013 (49 students).

Lead Instructor. College: An Introduction (HSCI 1000). Undergraduate. Taught Fall 2012 (18 students).

Lead Instructor, Course Developer. Applied Regression Analysis (PHTH 6210). Graduate. Taught Spring 2013 (6 students), Spring 2014 (16 students), Spring 2015 (13 students), Spring 2017 (14 students).

Lead Instructor, Course Developer. Foundations of Biostatistics (PHTH 2210). Undergraduate. Taught Fall 2014 (10 students), Fall 2015 (16 students), Fall 2017 (43 students).

Lead Instructor, Course Developer. Online Biostatistics in Public Health (PHTH 5210). Graduate. Taught Spring 2015 (17 students), Spring 2016 (15 students), Spring 2017 (22 students).

Lead Instructor, Course Developer. Survival Analysis (PHTH 9999). Graduate. Taught Spring 2016 (9 students).

Guest Lecture. Community and Public Health (PHTH 2350). Undergraduate. One lecture in each of Fall 2012, Spring 2013, Fall 2014, Spring 2016, Fall 2016.

Guest Lecture. Foundations of Biostatistics (PHTH 2210). Undergraduate. Two lectures in Spring 2016.

External Guest Lectures
Intro. to Disease Surveillance, Harvard School of Public Health, Spring 2013

ADVISING AND MENTORING

Doctoral Students
Primary Mentor
> Meredith Milstein, Ph.D. candidate, Population Health, Department of Health Sciences. Expected graduation December 2017.

Committee Member
> Fatemeh Kazemiparkouhi, Ph.D. candidate, Population Health, Department of Health Sciences. Expected graduation May 2018.

> Lindsay Tallon, Ph.D., Population Health, Department of Health Sciences, 2017. Title: Environmental Factors in Health: Assessing Air Pollution and Neighborhood Impacts on Vascular and Cognitive Health.

> Trent Honda, Ph.D., Population Health, Department of Health Sciences, 2016. Title: Long-term Air Pollution Exposure and Cardiovascular Risk Factors in Older Americans.

> Michael Grant, Sc.D. Environmental and Occupational Medicine and Epidemiology, Harvard School of Public Health, 2016. Title: The Role of Safety Inspections Within Health and Safety Interventions in Dynamic Workplaces.

Ce Gao, Ph.D. Bioinformatics, Department of Bioengineering, 2015.
Title: Unsupervised Data Mining Applications on High Dimensional Gene Expression Time Series in Toxicogenomics.

MPH Student Advising
Primary Capstone Mentor

Michelle Reid, MPH (2017).
Title: Associations between dietary intake, sleep continuity, and symptom severity: The Multi-Ethnic Study of Atherosclerosis.

Olubunmi Oladunjoye, MPH (2017).
Title: Evaluation of an Anticoagulation Guideline in a Tertiary Pediatric Hospital.

Ahmad Al-Moujaded, MPH (2017).
Title: Patterns of glaucomatous visual field loss associated with diabetes status and other clinical correlates using computationally derived visual field archetypes.

Geeta Kamarthi, MPH (2016).
Title: Systematic Review of Non-alcoholic Fatty Liver Disease and Non-alcoholic Steatohepatitis in Adults in the United States.

Thomas Wickham, MPH (2016).
Title: Evaluation of a Youth Engagement Program on Stroke.

Christina Haughton, MPH (2014).
Title: Nutritional Status and Weight Changes Among Pediatric Stem Cell Transplant Patients.

Jillian Newsam, MPH (2014).
Title: Optimizing Prevention and Screening Services for the Massachusetts Department of Public Health Office of HIV/AIDS

Meredith Milstein, MPH (2013).
Title: Implications of a Systematic Review on Pediatrics with Tuberculosis Meningitis for Clinical Treatment Guidelines.

Capstone Committee Member

Cassandra O'Connell, MPH Candidate
Title:

Patrick Henrick, MPH Candidate
Title: A Cross-Sectional Analysis of Environmental Factors Influencing the Diagnosis of Waldenström's Macroglobulinemia.

Courtney Mitterling, MPH (2017).
Title: Factors Associated with Student Dropout at Year Up Greater Boston: A Psychosocial Focus on Trauma, Mental Health, Family Cohesion, and Race.

Heba Abolaban, MPH (2016).
Title: Implementation and Analysis of Randomized Control Trial Supporting Breastfeeding Mothers by Using a Virtual Computer Agent.

Caitlyn Haynes, MPH (2015).
Title: Measuring the Compliance and Sustainability of Micro Ecological Momentary Assessments (µEMA) on Smart Watches.
Victoria Nielson, MPH (2014).
Title: A Statistical Analysis of the Association between Parenting Stress and Receipt of Public Assistance.

Amna Umer, MPH (2012).
Title: Public Health and Infant Feeding Tutorial: A Pilot Study.

Undergraduate Student Advising
Capstone Advisor:
Jessica Cincotta, BA (2017) Department of Health Sciences
Aaron Yagoda, BA (2016) Department of Health Sciences

Graduate Student Academic Advising
Lauren McHugh
Olbunmi Oladunjoye
Ayesha Chowhan
Geeta Kamarthi
Cassandra O'Connell
Cassidy Griffin
Heba Abolaban
Geeta Kamarthi
Victor Cabada
Meredith Milstein
Samantha Rudnick
Anna Cerio
Kimberley Martin

SERVICE
Northeastern University
Research Computing Advisory Committee (Bouvé representative) 2017

Bouvé College
Biostatistics Service Center (Associate Director) 2015, 2016, 2017

Department of Health Sciences
Quantitative Methods Faculty Search Committee (Co-Chair) 2017
Population Health PhD Written Exam Committee 2014, 2015, 2016, 2017
Population Health PhD Committee 2013, 2014, 2015, 2016, 2017
MPH Community Outreach Committee 2012, 2013, 2014, 2015, 2016, 2017
Health Education Faculty Search Committee 2015
Epidemiology Faculty Search Committee 2013
Workload and Merit Review Committee 2012, (Chair) 2013
Social Determinants of Health Faculty Search Committee 2012

Journal Review
Journal of Infection and Public Health
Global Pediatric Health

Scientific Reports (A Nature Journal)
PLOS Neglected Tropical Diseases
Journal of General Internal Medicine
Tuberculosis
Stochastic Environmental Research and Risk Assessment
Biometrics
PLOS ONE
Statistics in Medicine
The International Journal of Biostatistics
Journal of Applied Statistics

Professional Associations
American Statistical Association
International Society of Disease Surveillance
Society of Epidemiologic Research

Professional Development
Short course: An Introduction to Causal Inference
Harvard School of Public Health, June 2017

Workshop: A Fully Customizable Textbook for Introductory Statistics/Data Science Courses
US Conference on Teaching Statistics, May 2017