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Chantel D. Sloan, Ph.D.

CONTACT INFORMATION

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PERSONAL DATA

Date and Place of Birth

April 10, 1982
Provo, Utah

Home Contact Information

438 S 1680 W
Provo, UT 84601
(603) 252-2142

EDUCATION AND EMPLOYMENT

- 08/13-pres. Assistant Professor, Department of Health Science
Brigham Young University, Provo, UT
- 07/10-08/2013 Postdoctoral Research Fellow, Division of Allergy, Pulmonary, and
Critical Care Medicine, Department of Medicine, Vanderbilt
University, Nashville, TN
- 01/10-06/10 Postdoctoral Internship, Department of Preventive Medicine, State
University of New York at Stony Brook, Stony Brook, NY
- 08/04-11/09 Dartmouth College, Hanover, NH, Ph.D., Genetics
- 09/00-04/04 Brigham Young University-Hawaii, Laie, HI, B.S. (*summa cum
laude*) Biology pre-professional (minor in Biochemistry)

PROFESSIONAL ORGANIZATIONS

- 03/10-Pres. Member, Association of American Geographers
- 04/11-Pres. Member, American Thoracic Society
- 01/08-01/11 Member, American Academy for the Advancement of Sciences

PUBLICATIONS AND PRESENTATIONS (*oldest to most recent*)

Original Research Articles

1. **Sloan C**, Duell E, Andrew A, Karagas M, Williams S, Moore J. (2009). Genetic population structure in New Hampshire. *PLoS One* 4(9):e6928.
2. **Sloan C**, Shen L, West,J, Wishart H, Flashman L, Rabin L, Santull, R, Guerin S, Rhodes C, Tsongalis G, McAllister T, Ahles T, Lee S, Moore J, Saykin A. (2010) Pathway-Based Hierarchical Clustering Analysis of Older Adults with Cognitive Complaints and Amnesic Mild Cognitive Impairment Using Clinical and Neuroimaging Phenotypes. *American Journal of Medical Genetics B Neuropsychiatric Genetics*. Jul; 153B(5):1060-1069.
3. Shen L, Kim S, Rsacher S, Nho K, Swaminathan S, West J, Foroud T, Pankratz N, Moore J, **Sloan C**, Huentelman M, Craig D, DeChairo B, Potkin,S, Jack C, Weiner M, Saykin A, & Alzheimer's Disease Neuroimaging Initiative. (2010) Whole Genome Association Study of Brain-Wide Imaging Phenotypes for Identifying Quantitative Trait Loci in MCI and AD: A Study of the ADNI Cohort. *Neuroimage*. 53(3):1051-1063.
4. **Sloan, C**, Andrew A, Gruber J, Mwenda K, Moore J, Onega T, Karagas M, Shi X, Duell E. (2012) Indoor and Outdoor Air Pollution and Lung Cancer in New Hampshire and Vermont. *Toxicology and Environmental Chemistry* 94(3).
5. **Sloan C**, Jacquez G, Gallagher C, Ward M, Baastrup R, Raaschou-Nielsen O, Meliker J. (2012) Performance of Cancer Cluster Q-statistics for Case-Control Residential Histories. *Spatial and Spatio-temporal Epidemiology* 3(4):297-310.
6. **Sloan C**, Gebretsadik T, Wu P, Mitchel E, Hartert T. (2013) Reactive vs. Proactive Patterns of Inhaled Corticosteroid Use in Relationship to Asthma Exacerbations. *American Journal of Preventive Medicine*. *Annals of the American Thoracic Society* 10(2):131-134.
7. James, K, Gebretsadik T, Escobar G, Wu P, Carroll K, Li S, Walsh E, Mitchel E, **Sloan C**, Hartert T. (2013) Risk of childhood asthma following infant

- bronchiolitis during RSV Season. *Journal of Allergy and Clinical Immunology*. 132(1):227-229.
8. Escobar G, Gebretsadik T, Carroll K, Xu Li S, Walsh E, Wu P, Mitchel E, **Sloan C**, Hartert T. (2013) Adherence to Immunoprophylaxis Regimens for RSV Infection in Insured and Medicaid Populations. *Journal of the Pediatric Infectious Diseases Society*. September.
 9. Straka B, Nian H, **Sloan C**, Byrd B, Woodard-Grice A, Yu C, Stone E, Steven G, Hartert T, Pare G, McCart, C, Brown N. (2013) Association of Presentation of Angiotensin-Converting Enzyme Inhibitor-Associated Angioedema with Pollen Count. *The Journal of Allergy and Clinical Immunology: In Practice*. 1(5): 468-473.e4.
 10. **Sloan C**, Gebretsadik T, Wu P, Carroll K, Mitchel E, Hartert T. (2013) Spatiotemporal Clusters of Infant Bronchiolitis in a Tennessee Medicaid Population. *Spatial and Spatiotemporal Epidemiology* 6:(17-23).
 11. **Sloan C**, Baastrup R, Jacquez G, Raaschou-Nielsen O, Meliker J. (2015) Space-Time Analysis of Testicular Cancer Clusters Using Residential Histories: A Case-Control Study in Denmark. *PLoS One*. 10(3):e0120285
 12. **Sloan C**, Chadrasekhar R, Mitchel E, Schaffner W, Lindegren M. (2015) Socioeconomic Disparities in Incidence of Influenza Hospitalizations in Tennessee. *Emerging Infectious Diseases*. September.
 13. Nordsborg R, **Sloan C**, Shahid H, Jacquez G, DeRoos A, Cerhan J, Cozen W, Severson R, Ward M, Morton L, Raaschou-Nielsen O, Meliker, J. (2015) Investigation of Spatio-temporal Cancer Clusters Using Residential Histories in a Case-control Study of non-Hodgkin Lymphoma in the United States. *Environmental Health*. 14:48.
 14. **Sloan C**, Philipp T, Bradshaw R, Chronister S, Barber W, and Johnston J. (2015) Applications of GPS-tracked personal and fixed-location PM_{2.5} continuous exposure monitoring. *Journal of the Air and Waste Management Association*. October.
 15. Carroll K, Gebretsadik T, Escobar G, Wu P, Xu Li S, Walsh E.I, Mitchel E. **Sloan C**, Dupont W, Hartert T. (2017) Respiratory Syncytial Virus Immunoprophylaxis in High-Risk Infants and Development of Early Childhood Asthma. *Journal of Allergy and Clinical Immunology*. 139(1):66-71.
 16. **Sloan C**, Gebretsadik T, Rosas-Salazar C, Wu P, Carroll K, Mitchel E, Anderson L, Larkin E, Hartert T. (2016) Seasonal Timing of Infant Bronchiolitis, Apnea and

Sudden Unexplained Infant Death. *PLoS One*. 11(7):e0158521.

17. Payne H, Steele M, Bingham J, **Sloan C**. (2017) Identifying and Reducing in Mental Health Outcomes Among American Indians and Alaska Natives Using Public Health, Mental Healthcare, and Legal Perspectives. *Administration and Policy in Mental Health and Health Services Research*. 45(1):5-14.
18. Lindsay G, Merrill R, Thackery R, **Sloan C**. (2016) Assessing Whether Americans Are Aware of the Nation's Declining Health Ranking, knowledge and practices. *Journal of Community Medicine & Health Education*. 6(6).
19. **Sloan C**, Weber F, Bradshaw R, Philipp T, Barber W, Walker V, Graul R, Tuttle C, Chartier R, Johnston J. (2017) Elemental Analysis of Infant Airborne Particulate Exposures. *Journal of Exposure Science and Environmental Epidemiology*. 27:526-534.
20. Achten N, Wu P, Bont L, Blanken M, Gebretsadik T, Chappell J, Li Wang L, Yu C, Larkin E, Carroll K, Anderson L, Moore M, **Sloan C**, Hartert T. (2017) *The Journal of Infectious Diseases*. 215(7):1102-1106.
21. **Sloan C**, Heaton M, Kang S, Berrett C, Wu P, Gebretsadik T, Lee R, Hartert T. (2017) The Impact of Climate on Spatiotemporal Patterns of Infant Bronchiolitis in the Contiguous United States. *Health and Place*. 45:46-54.
22. Chandrasekhar R, **Sloan C**, Mitchel E, Ndi D, Alden N, Thomas A, et al. (2017) Social determinants of influenza hospitalization in the United States. *Influenza and Other Respiratory Viruses*. 11(6):479-88.
23. Chaney R, **Sloan C**, Cooper V, Robinson D, Hendrickson N, McCord T, et al. (2017) Personal exposure to fine particulate air pollution while commuting: An examination of six transport modes on an urban arterial roadway. *PloS One*. 12(11):e0188053.

Reviews, Case Reports, Letters, Editorials

1. **Sloan, C**, Sayarath, V, Moore J. (2008) Systems Genetics of Alcoholism. *Alcohol Research and Health* 31:14-25.
2. **Sloan C**, Duell E, Shi X, Irwin R, Andrew A, Williams S, Moore J. (2009) Ecogeographic Genetic Epidemiology. *Genetic Epidemiology* 33(4):281-9.
3. **Sloan C**, Meliker J. Spatio-temporal Epidemiology: Principles and Opportunities. (2010) *Spatial and Spatio-temporal Epidemiology* 2(1): 1-9.

4. **Sloan C**, Moore M, Hartert T. Impact of Pollution, Climate, and Sociodemographic Factors on Spatiotemporal Dynamics of Seasonal Respiratory Viruses. (2011) *Clinical and Translational Science* 4(1): 48–54.
5. **Sloan C**, Johnston J. Can Extreme Air Pollution Events Provide a Window into Incident Asthma? (2016) *Journal of the American Thoracic Society* 194(12): 1440-1441.

Articles in Preparation/Under Review

1. Smith T, Gardner R, Korgenski K, **Sloan C**. Patterns of Respiratory Syncytial Virus Epidemics in Utah in Comparison with other Seasonal Viruses. Revision.
2. Harding M, **Sloan C**, Merrill R, Harding T, Thacker B, Thacker E. Transition from Cardiovascular Disease to Cancer as the Leading Cause of Death in US States, 1999-2013. Revision.
3. Bang W, Haggerdorn B, Berrett-Graul L, Esplin J, **Sloan C**. Healthcare, education, and employment services for refugees in the United States: A state-by-state comparison. Revision.
4. Heaton M, Berrett C, Pugh, S, **Sloan C**. Modeling Bronchiolitis Incidence Proportions in the Presence of Spatio-temporal Uncertainty. *Journal of the American Statistical Association*. Submitted.
5. Stoneking N, Wu XJ, Brown T, Nelson H, **Sloan C**. Asthma, Eczema and Allergic Rhinitis Among Utah County Youth. Preparing for Submission.
6. **Sloan C**, Chandrasekhar R, Mitchel E, Ndi D, Miller L, Thomas A, Bennett N, Kirley P, Spencer M, Anderson E, Lynfield R, Yousey-Hindes K, Barsten M, Zansky S, Lung K, Schroeder M, Cummings C, Garg S, Schaffner W, Lindegren M. Spatial and Temporal Clustering of Patients Hospitalized with Laboratory-Confirmed Influenza in the United States. Preparing for Submission. *Health and Place*.
7. Pugh S, Heaton M, Hartman B, Berrett C, **Sloan C**, Evans A, Gebretsadik T, Wu P, Hartert T, Lee R. Estimating Seasonal Onsets and Peaks of Bronchiolitis with Spatially and Temporally Uncertain Data. Preparing for Submission.
8. Moody M, Limpanasriphong K, Duan D, **Sloan C**. Authoritarianism and Environmental Health: A Case Study of Coal Mining in China from the 1860s to the Present. *Annals of the American Association of Geographers*. Submitted.
9. Frutos A, **Sloan C**, Merrill R. Modeling the Effects of Atmospheric Pressure on

Suicide Rates in the USA through Geographically Weighted Regression.

Abstracts (beginning at arrival at Brigham Young University, sorted oldest to newest)

1. **Sloan C**, Lee R, Gebretsadik T, Evans A, Berrett C, Heaton M, Sicignano N, Hartert, T. (2014) Spatiotemporal Patterns Of Winter Virus Season Bronchiolitis In A Nationwide US Infant Population. *American Thoracic Society Annual Meeting*, San Diego California.
2. **Sloan C**, Lee R, Gebretsadik T, Evans A, Berrett C, Heaton M, Sicignano N, Hartert, T. (2014) Bronchiolitis Seasonal Patterns In A Nationwide US Infant Population. *International Respiratory Syncytial Virus Symposium*, Stellenbosch, South Africa.
3. Gebretsadik T, Carroll K, Escobar G, Wu P, Xu Li S, Walsh E, Mitchel E, **Sloan C**, Dupont W, Hartert T. (2015) Comparison of Methods for Adjustment of Confounding by Indication in Assessing Respiratory Syncytial Virus (RSV) Immunoprophylaxis Impact on Childhood Asthma. *Joint Statistical Meeting*, Seattle, WA.
4. **Sloan C**, Bradshaw R, Philip T, Barber B, Walker V, Graul R, Tuttle C, Johnston J. (2015) GPS-enable real-time concentration and composition of PM2.5 in an infant population. *Geomed*, Florence, Italy.
5. Harding M, **Sloan C**, Merrill R, Harding T, Thacker B, Thacker E. (2016) Transition from cardiovascular disease to cancer as the leading cause of death in US states, 1999-2013. *American Heart Association*, New Orleans, LA.
6. Berrett C, Heaton M, and **Sloan C**. (2016) Modeling Environmental Impacts on Bronchiolitis in the Presence of Spatial Uncertainty. *International Society for Bayesian Analysis World Meeting*, Sardinia, Italy.
7. Berrett C, Heaton M, and **Sloan C**. (2016) Modeling Environmental Impacts on Bronchiolitis in the Presence of Spatial Uncertainty. *Joint Statistical Meetings*, Chicago, IL.
8. Wu P, Escobar G, Gebretsadik T, Carroll K, Li SX, Walsh E, Mitchel E, **Sloan C**, Dupont W, Yu C, Hartert T. (2016) Effectiveness of Respiratory Syncytial Virus Immunoprophylaxis on Bronchiolitis Hospitalization among High-risk Infants. *American Thoracic Society*, San Francisco, CA.
9. **Sloan C**, Pugh S, Hartman B, Evans A, Lee R, Hartert T, Berrett C, Heaton M. (2016) Estimating Onset, Duration and Termination of Seasonal Bronchiolitis Epidemics. *RSV International Symposium*, Patagonia, Argentina.

10. Heaton M, Berrett C, Pugh S, **Sloan C.** (2017) Modeling Bronchiolitis Epidemics in the Presence of Spatio-temporal Uncertainty. *ENAR*, Washington DC.
11. Cunico L, **Sloan C.** (2017) Comparing Reporting of Campus Crimes to College Characteristics in the United States, 2014. *New Mexico Public Health Association*, Albuquerque, NM.
12. Sloan C, Chandrasekhar R, Mithcel E, Ndi D, Miller L, Anderson E, Zansky S, Lung K, Schroeder M, yousey-Hindes K, Meek J, Bargsten M, Thomas A, Felsen C, Mornoe M, Spencer M, Kirley P, Cummings C, Garg S, Schaffner W, Lindegren M. (2017) The Influence of Neighborhood-Level Social and Demographic Factors on Spatial and Temporal Trends of Influenza Hospitalization in the United States. *American Thoracic Society*, Washington, D.C.
13. Achten N, Wu P, Bont L, Gebretsadik T, Blanken M, Chappell J, Wang L, Yu C, Larkin E, Carroll K, Anderson L, Moore M, **Sloan C**, Hartert T. (2017) Interference Between Respiratory Syncytial Virus and Human Rhinovirus Infection in Infancy. *American Thoracic Society*, Washington, D.C.
14. Hendrickson N, Cooper V, Sloan C, Chaney R, Johnston J. (2017) Personal exposure to fine particulate air pollution (PM2.5) while commuting: An examination of six transport modes on an urban arterial roadway. *American Industrial Hygiene Conference & Expo*, Seattle, WA.
15. Frutos A, **Sloan C**, Merrill R. (2017) Modeling the effects of atmospheric pressure on suicide rates in the USA through geographically weighted regression. *American Public Health Association*, Atlanta, GA.
16. Westhoff W, Hagerdorn R, Esplin J, **Sloan C.** (2017) Healthcare, education, and employment services for refugees in the United States: a state-by-state comparison. *American Public Health Association*, Atlanta, GA.
17. Stoneking N, Wu XJ, Nelson H, Brown T, **Sloan C.** (2017) Asthma, Eczema and Allergic Rhinitis Among Utah County Youth. *American Public Health Association*, Atlanta, GA.

PROFESSIONAL ACTIVITIES

Intramural

2/15-pres. Member, Health Science Writing Group (informal)

- 1/15 – 5/15 Member, Causal Inference Reading Group (informal)
- 10/10- 07/13 Founder and lead organizer of the Vanderbilt University Medical Center GIS User Group
- 07/10-07/13 Member, Newman Society, Vanderbilt University

Extramural

- 07/12 Student, Summer Institute in Statistics and Modeling of Infectious Diseases
(5 courses completed), University of Washington, Seattle, WA.
- 04/11 Chair, Environmental Health: Air and Water Pollution Session, Association of American Geographers Annual Meeting.
- 06/08 Student, Summer Institute of Public Health, Harvard School of Public Health, Boston, MA.

Institutional Presentations

- 11/10 Elliot Newman Society Annual Research Retreat: “Mapping the Spread of Influenza and RSV in Tennessee: Approaches and Challenges,” Frist Center of Fine Arts, Nashville, TN.
- 10/11 Elliot Newman Society Annual Research Retreat: “Climate Variation and Patterns of Respiratory Syncytial Virus Seasonal Epidemics,” Frist Center of Fine Arts, Nashville, TN.
- 04/12 Pulmonary conference presentation: “Climate Variation and Patterns of Respiratory Syncytial Virus Seasonal Epidemics.” Monday Noon Conference, Division of Allergy, Pulmonary and Critical Care Medicine, Vanderbilt University Medical Center, Nashville, TN.
- 02/15 Guest lecturer for Department of Biostatistics. “Statistical applications in investigations of respiratory viruses.” Department of Biostatistics, Brigham Young University, Provo, UT.
- 11/17 Lecturer at BYU GIS Symposium. “GIS and Children’s Respiratory Health.” Department of Geography, Brigham Young University, Provo, UT.
- 12/17 Guest lecturer for the Department of Biostatistics. “Statistical Analyses for Bronchiolitis and RSV.” Department of Biostatistics, Brigham Young

University, Provo, UT.

External Presentations (not listed under Abstracts)

- 10/17 Author on talk given by Matthew Heaton at Texas A&M Department of Statistics, College Station, TX.
- 02/15 Invited speaker, Utah Air Quality Task Force.
- 04/13 Invited speaker, Vespucci Institute: Genetic and Medical Geography, Catalina Island, CA.
- 09/12 Respiratory Syncytial Virus Symposium: Contribution of Climate to Respiratory Syncytial Virus Seasonal Epidemics in Different Regions of the United States. Santa Fe, NM. (*This was an invited talk and poster.*)
- 10/08 New England Membrane Enzyme Group (NUTMEG): A GIS-based Analysis of Superfund Sites and Lung Cancer Rates in New Hampshire.

Reviewer Activities

Brain Imaging and Behavior
International Journal of Biometeorology
American Journal of Respiratory and Critical Care Medicine
Spatial and Spatiotemporal Epidemiology
Environmental Health
PLoS One
International Journal of Environmental Research and Public Health
Jornal de Pediatria
Allergy, Asthma and Clinical Immunology

Honors and Awards

Undergraduate

- 02/03 Biology department student honoree

Postdoctoral

- 05/10 American Thoracic Society Annual Meeting, Environmental and Occupational Health Assembly, Travel Award Recipient
- 05/11 American Thoracic Society Annual Meeting, Environmental and

Occupational Health Assembly, Travel Award Recipient

09/12 Respiratory Syncytial Virus International Symposium, Travel Award
Recipient

TEACHING ACTIVITIES

Courses, Lectures and Teacher Training

Brigham Young University

HLTH 311 Infectious Disease Prevention and Control
HLTH 482 Medical Geography
HLTH 492R Faith and Public Health Seminar

Harvard TH Chan School of Public Health

06/17 Completed Course on Case-Based Teaching and Learning

Vanderbilt University

11/12 Epidemiology unit in graduate-level Toxicology course
09/11-11/11 Instructor, Graduate Directed Study in Spatial Epidemiology

Dartmouth College

03/08 Participant, Dartmouth Center for the Advancement of Learning Teaching
Series

09/07-12/07 Teaching Assistant, Introduction to Biology

Brigham Young University-Hawaii

09/01-04/04 Teaching Assistant, Botany, Ethnobotany, Ecology

Undergraduate and Professional Students Mentored

2005 Emily Eros, Women In Science Project Internship
2007-2008 Joanne Gruber, Howard Hughes Medical Research Fellowship
2008 Dylan Thomas, Internship
2008 Kevin Mwenda, Internship
2008 Kathleen Champion, Howard Hughes Medical Research
Fellowship
2009 Sarah Streeter, Howard Hughes Medical Research Fellowship

2010	Kristina James, M.D, Medical research fellow
2013-2014	Reena Karki, Chelsea Westmoreland, Justice Arman, Tyler Philipp, Karlie Mitchell, Caitlin Schille
2014-2015	Sara Chronister, Tyler Philipp, Brad Barber, Trevor Becksted,
Parker Dow	
2015-2017	Ellen Woo, Lauren Cunico, Trevor Smith, Hailee Nelson
2017- pres.	Eric Evans, Mamadou Tounkara, Sarah Hamner, Nathan Stoneking, Brynne Jackson, Taylor Brown, Whitney Bank, Robert Hagerdorn, Jordan Esplin, Aaron Frutos, Mariah Moody, Wade Whitt

Graduate Student Committees

09/17-pres.	Chelsi Alexander (member)
09/17-pres.	Kendra Thomas (member)
09/17-pres.	Marco Verdeja (chair)
09/16- pres.	Ally Jones (member)
04/16-10/17	Sierra Pugh (member)
09/2015- 04/2017	Rachel Ashby (chair)
09/2015- 02/2017	Cerissa Hayhurst (member)
09/2014- pres.	Shelby Hall (member)
10/2014- 04/2015	Sorah Kang (Department of Statistics) (member) <i>Title: Spatio-Temporal Smoothing of Seasonal Bronchiolitis Patterns in the Contiguous United States</i>
09/2013- 2015	Jeanette Johnson (member)
09/2013-2015	Reena Karki (member) <i>Title: Prevalence of Uncontrolled Hypertension and Controlled Hypertension among Adults in Southern Central Kentucky, 2006-2011</i>

RESEARCH PROGRAM FUNDING

Proposals Funded

1. New Faculty Funding- Year 3

09/2015-08/2016

College of Life Science, Brigham Young University

\$20,000

This proposal was a follow-up to the previous year. My second year new faculty funding was used to hire students, develop the survey methods and recruit the school board. The third year funding is to conduct the study, paying primarily for student research assistants and for customized Scantron survey forms for 6,500 people (about \$10,000 cost).

2. R03 ES025295-01, NIEHS
2016

2014 –

Principal Investigator: Matthew Heaton, PhD
\$100,000

Modeling Environmental Impacts on Bronchiolitis in the Presence of Spatial Uncertainty.

This proposal represents a collaboration between Dr. Sloan in the Department of Health Science and Dr.'s Heaton and Berrett in the Department of Statistics. We are using data from a Military Health System Database to develop methods for dealing with spatial uncertainty in large datasets. This proposal was scored in the top 6% and funded in 2015.

3. New Faculty Funding- Year 2

09/2014-08/2015

College of Life Science, Brigham Young University

\$20,000

We proposed conducting a survey study using the Global Asthma Network protocols among 3,000 Utah County children ages 13-14 during the 2015-2016 school year to determine rates of asthma and allergic diseases. This study will take place in Winter 2016.

4. New Faculty Funding- Year 1

09/2013-08/2014

College of Life Science, Brigham Young University

\$20,000

This proposal focused on measuring real-time air pollution exposure in northern Utah. Dr. Jim Johnston and I purchased new personal air pollution monitors, called microPEMs which allow for measurement of individual small particulate exposure as individuals travel outdoors and indoors during the course of a day. We conducted a study during the summer and another in January 2015 investigating exposures among adults and infants.

5. Toxicology Pilot Funding

04/01/13-03/31/13

Vanderbilt Center for Molecular Toxicology

\$37,464

Environmental Factors Inducing Sleep Apnea and Sudden Infant Death Syndrome

This proposal focuses on investigating the molecular and environmental interactions potentially leading to sudden infant death syndrome (SIDS) in infants with mild respiratory syncytial virus (RSV) infection through induction of central sleep apnea.

6. K12 Training Award (Sloan)

07/01/10 –

06/31/12

NIEHS, Vanderbilt University

\$226,040

Impact of Pollution and Climate on the Spread of Influenza and RSV Virus: A Spatial and Temporal Epidemiologic Analysis

This proposal is an interdisciplinary effort using biostatistical and computational methods to discern the patterns of respiratory syncytial virus (RSV) epidemic initiation, peak timing and cessation using two large healthcare administrative databases. Data on climate, air pollution and infant bronchiolitis rates (surrogate measure for RSV infection) were investigated together, and showed that factors tied to geography do influence the timing of RSV epidemic peaks. The research also has shown evidence of RSV epidemics being strongly correlated with both absolute humidity levels and temperature. This research has led to the collaborations and proposal currently under consideration by the NSF.

7. T32 ES 7028-38 (Sloan)

11/01/12 -10/31/13

National Institute of Health

T32 Molecular Toxicology Training Grant

The T32 funding mechanism is designed to support research fellows in conducting translational research in environmental and molecular toxicology. Dr. Sloan received this appointment based on her work in the interactions between the environment, human behavior and respiratory syncytial virus in determining initiation, peak timing and cessation of seasonal recurring epidemics.

UNIVERSITY CITIZENSHIP

Department Committees

08/17-09/17 Ad-hoc Name Change Committee

09/16- 06/17 Faculty Search Committee

09/15- 04/16 Curriculum Committee

09/14- 06/15 Accreditation Committee

09/14- 06/15 Merit Pay Committee
09/13- 06/14 Alumni Relations Committee
09/13 -06/14 MPH Admissions Committee
09/13- 06/14 Scholarship Committee

College Committees

09/16-12/16 MEG Review Committee
2013- pres. ORCA Review Committee

University Committees

NA

University Media

1/28/15, 10/5/14, 10/8/14,
1/5/15, 5/25/16, 11/29/17 I gave interviews for and was quoted in stories featured in BYU's student newspaper, *The Daily Universe* (dates are those on which the articles were published).

11/4/14, 1/27/15 BYU Radio guest. I visited BYU Radio to discuss vaccinations, Zika, the Ebola epidemic and a measles outbreak.

4/1 KBYU News 11 Interview on Utah Pertussis outbreak.

LDS CHURCH CALLINGS

Relief Society 1st Counselor
Sunset 9th Ward, Sunset Stake, Provo, UT
May 2017- pres.

Ward Chorister
Sunset 9th Ward, Sunset Stake, Provo, UT
January 2015- pres.

Relief Society 2nd Counselor
Sunset 9th Ward, Sunset Stake, Provo, UT
October 2015- May 2017

Ward Choir Director

Sunset 9th Ward, Sunset Stake, Provo, UT
February 2015- December 2015

Youth Sunday School Teacher

Sunset 9th Ward, Sunset Stake, Provo, UT
July 2014- February 2015.

Visiting Teaching Supervisor

Bonneville 11th Ward, Bonneville Stake, Provo, UT
September 2013 – May 2014

OTHER UNIVERSITY ACTIVITIES

Rotaract Club Advisor

As the advisor to the student version of Rotary International (Rotaract) on BYU's campus, I oversee and approve activities undertaken by the club. Students also meet in my office after hours once a week to discuss club plans. The Rotaract club undertakes service projects in public health, infrastructure building and education.

Faculty Women's Association

In 2014-2015 I participated in a web series created by the BYU faculty women's association and the Department of Theater and Media Arts titled "By Study, By Faith: Choosing a Good Part." These interviews with female faculty were designed to inspire female (and male) students to become life-long learners. The videos can be viewed at: <http://vimeo.com/byutma>.

PROGRAMMING AND SOFTWARE

ArcGIS, SpaceStat, SAS, Perl, R, STATA

Sloan, Chantel D., Ph.D. (Continued)

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