



TEXAS STATE UNIVERSITY
HEALTH & GIS
CONFERENCE
2018

May 17 – 18, 2018

Texas State University
Round Rock Campus – Nursing Building



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Texas State University is a tobacco-free campus.

WELCOME TO THE HEALTH & GIS CONFERENCE



Alberto Giordano, Chair, Department of Geography,
Texas State University

Our goal is to bring together academics, health industry representatives, non-profit service providers, and government health policymakers to present and discuss innovative approaches to improve healthcare delivery and outcomes.



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THURSDAY, MAY 17 // SCHEDULE AT-A-GLANCE

8:00 – 9:00 am Registration

9:00 – 9:30 Texas State University Conference Welcome
Ruth Welborn, Dean, College of Health Professions
Mary Brennan, Dean, College of Liberal Arts
Alberto Giordano, Chair, Department of Geography

9:30 – 10:00 Conference Overview
Alberto Giordano, Chair, Department of Geography
Geomedicine, TED Talk

10:00 – 10:15 Break

10:15 – 11:45 Presentations & Panel (pages 6 – 7)

11:50 – 1:10 Luncheon and Speaker (page 8)

1:15 – 2:45 Presentations & Panel (pages 10 – 11)

2:45 – 3:00 Break

3:00 – 5:00 Presentations & Panel (pages 12 – 13)

5:00 – 5:45 Social Hour (page 14)

5:45 – 7:30 Dinner (page 15)

FRIDAY, MAY 18 // SCHEDULE AT-A-GLANCE

8:30 – 10:00 am Presentations & Panel (pages 16 – 17)

10:00 – 10:15 Break

10:15 – 11:40 Create Action Themes and Teams (page 18)

11:45 – 1:25 Luncheon and Speaker (page 19)

1:30 – 3:25 Healthcare Provider Presentations (page 20)

3:30 – 3:55 Conference Wrap-up (page 20)

4:00 – 5:00 Health Professions State-of-the-Art Facility Tour
(page 20)

Place Matters in Healthcare

Session 1 // Thursday, May 17, 2018 // 10:15 – 11:45 am

Chair: Rebecca Davio, Director, Institute for Government Innovation,
Texas State University

Papers

Understanding Health and Healthcare through a Geographic Lens

Yongmei Lu, Associate Chair

[Department of Geography, Texas State University](#)



Yongmei Lu, PhD, is a professor and the associate chair of the Department of Geography at Texas State University. She has served on the Research Committee of the University Consortium of Geographic Information Science (UCGIS) since 2012. Dr. Lu is interested in GIS-supported investigation of health impacts of environmental issues, disease patterns, and access to services and access disparity.

F. Benjamin Zhan, Graduate Program Coordinator

[Department of Geography, Texas State University](#)



F. Benjamin Zhan, PhD, is a professor and graduate program coordinator in the Department of Geography at Texas State University. He was the founding director of the Texas Center for Geographic Information Science at Texas State University, 2003–2015. Dr. Zhan's research foci are in GIScience and its applications. In his health research, he studies cancer disparities and environmental epidemiology of pregnancy outcomes.

Place Matters When Developing Public Health Policy

Fahui Wang, Department Chair

[Department of Geography and Anthropology, Louisiana State University](#)



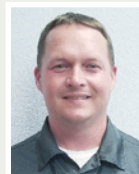
Fahui Wang, PhD, is James J. Parsons Professor, chair of the Department of Geography and Anthropology, and a recent recipient of LSU Distinguished Faculty Award. His textbook *Quantitative Methods and Socioeconomic Applications in GIS* has become a classic for GIS students with an interest in GIS applications in social sciences, public policy, and planning.

Session 1 (continued)

A Multi-departmental Approach to Disease Surveillance

Eric Schneider, Senior Epidemiologist

[Hays County Health Department](#)



Eric Schneider holds a Master of Education in Health Education and is the senior epidemiologist for the Hays County Health Department. Earlier in his career he was a senior sanitarian for the City of Austin's Health and Human Services Department as well as an environmental health specialist for the Hays County Health Department.

Steve Floyd, GIS Programs Manager

[Hays County Health Department](#)



Stephen Floyd has a Master of Applied Geography specializing in cartography and GIS and is programs manager for GIS & 9-1-1 Addressing at the Hays County Development Services Department.

Panelists

Marisa Finley, Vice President, Center for Health Care Policy

[Baylor Scott & White Health](#)

Heather Hill, Chief Nursing Officer

[Seton Medical Center Williamson](#)

Hareesha Vemuganti, MD, Hematologist-Oncologist

[Texas Oncology](#)

Karen Meaney, Chair, Department of Health and Human Performance

[Texas State University](#)

Kent Griffin, Associate Professor, Department of Health and Human Performance

[Texas State University](#)

Anthony Deringer, Assistant Professor, Department of Health and Human Performance

[Texas State University](#)

Luncheon and Speaker

Thursday, May 17, 2018 // 11:50 am – 1:10 pm

Courtesy of Baylor Scott & White Health

Speaker

Delivering High Quality Oncology Care – The Impact of Alignment

Dr. Christal Murray, Hematologist-Oncologist

Baylor Scott & White Health



Christal Murray, MD, is a hematologist and medical oncologist for Baylor Scott & White Health who commonly treats breast cancer, anemia, leukemia, and multiple myeloma.

She grew up in San Antonio, where her family still resides, and earned a bachelor of arts degree at Southwestern University before obtaining a medical degree from the Texas A & M Health Science Center College of Medicine.

Dr. Murray pursued internal medicine training followed by a hematology and oncology fellowship at Wake Forest University in North Carolina. She returned to Central Texas in 2009 when she began her work with Baylor Scott & White Health. She has made numerous television appearances discussing the latest oncology research and has been active in community education. She participates in oncology clinical trials as well as medical education with medical students and residents.

Introduced by Kathy Hall, Director, Clinic Operations

Baylor Scott & White Health Cancer Center



TO ACHIEVE THE CONFERENCE GOALS



- Present cutting-edge and timely health and GIS challenges and solutions
- Engage in cross-specialties discussion that will lead to collaborative work
- Create a set of action themes with specific outcomes
- Establish working groups for each of the action themes

Big Health Data and Geovisualization

Session 2 // Thursday, May 17, 2018 // 1:15 – 2:45 pm

Chair: Alberto Giordano, Chair, Department of Geography,
Texas State University

Papers

Big Health Data in the Computable Phenotyping Age

Alfredo Tirado-Ramos, Director, Division of Biomedical Informatics

Department of Biomedical Data Science, Geisel School of Medicine, Dartmouth College



Alfredo Tirado-Ramos, PhD, is director of the Division of Biomedical Informatics, Department of Biomedical Data Science, Geisel School of Medicine, Dartmouth College. Earlier he was the associate director for the Biomedical Informatics Core at the Center for AIDS Research at the Rollins School of Public Health at Emory University. His areas of expertise focus on informatics applied to clinically relevant biomedical challenges.

Visualizing the Knowledge Spaces of Biomedicine and Intensive Care

André Skupin, Co-director of the Center for Information Convergence and Strategy

San Diego State University



André Skupin, PhD, is the founder and co-director of the Center for Information Convergence and Strategy at San Diego State University and co-founder of commercial spin-off BigKnowledge. Dr. Skupin's research interests are in geovisualization, visual data mining, and spatiotemporal modeling. He is co-inventor of several patent-pending technologies involving ontologies and text mining for knowledge engineering.

Session 2 (continued)

Big Health Data Analytics and Healthcare Innovation

Brett Trusko, Director, Biomedical Informatics Center

Texas A&M Health Science Center



Brett Trusko, PhD, holds appointments at Texas A&M College of Medicine, Mount Sinai College of Medicine, and New York University and is the founder and chair of the International Association of Innovation. Previously, he was a faculty member at the Mayo Clinic where he researched medical errors. Dr. Trusko's research focuses on health information management, healthcare innovation, big data analytics, and natural language processing.

Panelists

Brandon Pope, Director, Health Care Improvement

Baylor Scott & White Health

Junfeng Jiao, Director, Urban Information Laboratory

University of Texas at Austin and Dell Medical School

Mary Odom, Assistant Professor, Department of Health and Human Performance

Texas State University

De De Gardner, Associate Professor, Department of Respiratory Care

Texas State University

Denise Gobert, Associate Professor, Department of Physical Therapy

Texas State University

Disease Mapping, Spread, and Exposure

Session 3 // Thursday, May 17, 2018 // 3:00 – 5:00 pm

Chair: Jessica Raley, Research Associate Professor,
College of Health Professions, Texas State University

Papers

Human Mobility, Individual Context, and Environmental Exposure: A Spatiotemporal Perspective

Mei-Po Kwan, Professor, Department of Geography and Geographic Information Science

University of Illinois at Urbana-Champaign



Mei-Po Kwan, PhD, is Professor of Geography and Geographic Information Science at the University of Illinois at Urbana-Champaign. Her research interests include environmental health, sustainable cities, human mobility, and GIScience. Supported by major NIH and NSF grants, her recent projects used advanced geospatial technologies to examine the health risks of female sex workers, high-risk drug use, exposure to air pollution, and environmental influences on physical activity.

Disease Mapping and Communicable Disease Spread Modeling

Xun Shi, Professor

Department of Geography, Dartmouth College



Xun Shi, PhD, a professor of geography at Dartmouth College, specializes in health-related geospatial analysis. He has led or participated in NIH- and CDC-sponsored projects and published extensively on spatial environmental health, communicable disease modeling, and spatial access to healthcare services. His research ranges from environmental etiologies of cancers, birth problems, and ALS, spread modeling of dengue fever, to healthcare access in the U.S. and China.

Employing Computational Simulations to Understand Geographic Patterns of Disease Spread

Joseph Oppong, Academic Associate Vice Provost for Graduate Education



Department of Geography and the Environment, University of North Texas

Joseph Oppong, PhD, is associate vice provost for graduate education at the University of North Texas and a medical geographer focusing on Africa and North America. His research includes HIV/AIDS in Texas, geographic distribution of tuberculosis genotypes, and applications of GIS to understand geospatial patterns of disease and health. Ongoing projects include the Buruli Ulcer in Africa, schistosomiasis in Ghana, urban slum health, and computational epidemiology.

Session 3 (continued)

Using GIScience to Control the Statistical Reliability and Spatial Resolution of Disease and Mortality Maps

Chetan Tiwari, Associate Professor, Department of Geography and the Environment

University of North Texas



Chetan Tiwari, PhD, is an associate professor in the Department of Geography and the Environment at the University of North Texas. As a medical geographer, he specializes in the application of spatial analysis methods and geospatial technologies for understanding the spatiotemporal dynamics of disease outcomes. Dr. Tiwari's research includes disease mapping, disease cluster analysis, environmental health, and computational geography.

Panelists

Rita Espinoza, Chief of Epidemiology

San Antonio Metropolitan Health District

Christina Carmona, Epidemiology Program Manager

San Antonio Metropolitan Health District

Elise Huebner, Epidemiologist

Williamson County and Cities Health District

Alassane Barro, Spatial Data Scientist

Texas Department of Health and Human Services

Leo Lopez III, Family Medicine Physician and Senior Resident

Christus Santa Rosa Family Medicine Residency Program

Xi Pan, Assistant Professor, Department of Sociology

Texas State University

Social Hour

Thursday, May 17, 2018 // 5:00 – 5:45 pm

Courtesy of Texas Oncology



Artistic Rendering of the New Texas State University College of Health Professions Willow Hall

Dinner

Thursday, May 17, 2018 // 5:45 – 7:30 pm

Courtesy of Texas State University

Texas State Welcome: Walter E. Horton, Associate Vice President for Research

Speaker

The Future of Telehealth and the Rapid Transformation of Care outside Healthcare Facilities

Dr. Jayfus T. Doswell, President and CEO

Juxtopia, LLC, Baltimore, MD



Jayfus T. Doswell, PhD, is a high-tech entrepreneur and visionary. Dr. Doswell is the founder, president, and chief executive officer of Juxtopia, LLC, a privately held biomedical and information technology company in Baltimore, Maryland with a mission of improving human performance. Prior to establishing Juxtopia, Dr. Doswell led several commercial engineering teams at Fortune 500 companies ranging from Lockheed Martin and SAIC to KPMG as their senior software engineer. Dr. Doswell contributed to early biomedical and nanotechnology informatics algorithms and frameworks while working at the National Cancer Institute.

Dr. Doswell led Juxtopia in securing research and development funding for the development of Juxtopia innovative wearable technology products for improving human health and learning. The Juxtopia® Augmented Reality platform is a technology platform from which various wearable augmented reality products are created for improving human training, ranging from surgical to trauma response training. Juxtopia has a contract to outfit all U.S. Army combat medics with wearable augmented reality systems to improve their tactical combat casualty care skill proficiency.

In the area of biomedical innovations, Dr. Doswell invented the Juxtopia® Imhotep platform for creating wearable telehealth products and competed in the Juxtopia® Qualcomm Tricorder X PRIZE, an international competition to invent the world's best non-invasive biomedical device for diagnosing an array of illnesses and diseases outside hospital environments.

In 2000, Dr. Doswell founded The Juxtopia Group, Inc. to address the shortage of underrepresented minority populations in engineering and technology careers. Dr. Doswell, observing the painful problems that prevent high-tech minority companies to achieve \$1 billion markets, established the Juxtopia® Urban Innovation and Cooperative Entrepreneurship (JUICE) Network. The JUICE Network guides high-tech minority companies, colleges, and universities, and federal laboratories in transitioning their inventions or innovative concepts to commercial products.

Introduced by **Walter Horton, Associate Vice President for Research**
Texas State University

Healthcare Access and Disparity

Session 4 // Friday, May 18, 2018 // 8:30 – 10:00 am

Chair: Yongmei Lu, Associate Chair, Department of Geography,
Texas State University

Papers

Social Determinants of Health Disparity and Access

Melinda Villagran, Director, Translational Health Research Initiative

Texas State University



Melinda Villagran, PhD, is director of the Translational Health Research Initiative and professor in the Department of Communication Studies at Texas State University. Dr. Villagran's work examines cultural and structural barriers to effective health communication to improve the health and quality of life for at-risk populations. She has authored two books and over 65 peer-reviewed publications on communication topics.

Understanding the Effects of Geospace and Time on Health Using Spatiotemporal Accessibility and GPS Trajectory Analysis

Michael Widener, Canada Research Chair in Transportation and Health,
Department of Geography and Planning

University of Toronto-St. George



Michael Widener, PhD, is an assistant professor and Canada Research Chair in Transportation and Health in the Department Geography and Planning at the University of Toronto. He is recognized as a leading expert in food accessibility and the links between transportation and health. His current projects explore the impact of time use and time pressures on food-related behaviors in cities.

Geospatial Analysis of Farmworker Health

Mark Deka, PhD Candidate, Department of Geography

Texas State University



Mark Deka, a PhD candidate in the Department of Geography at Texas State University, has research interests in health geography, cartography, GIS, and disease mapping. His current research is a groundbreaking study about the geospatial analysis of farmworker health in the U.S.

Session 4 (continued)

Panelists

Yvonne VanDyke, Chief Nursing Office

Ascension Texas Ministry Market

Tyson Bain, Manager, Equitable Care

Baylor Scott & White Health

John Teel, Director

Williamson County and Cities Health District

Rick Danko, Director of Curriculum Development

Texas A&M Health School of Public Health

Sylvia Partida, Chief Operations Officer

National Center for Farmworker Health

Cassandra DeLeon, Planning and Evaluation Manager

Austin Public Health

Jeff Housman, Associate Professor, Department of Health and Human
Performance

Texas State University

Tracy Haywood, Senior Geospatial Analyst

Austin Public Health

Create Action Themes and Teams

Friday, May 18, 2018 // 10:15 – 11:40 am

Moderator: Rebecca Davio, Director, Institute for Government Innovation,
Texas State University

Place Matters in Healthcare

Big Health Data and Geovisualization

Disease Mapping, Spread, and Exposure

Healthcare Access and Disparity

Luncheon and Speaker

Friday, May 18, 2018 // 11:45 am – 1:25 pm

Courtesy of Ascension Texas/Seton Family of Hospitals

Speaker

Baghdad to Boston (or Austin?): Translating Military Combat Casualty Care Lessons From 15 Years of War to the Civilian Sector

Dr. James Geracci, VP of Medical Affairs and Chief Medical Officer

Seton Medical Center Williamson



James Geracci, MD, is vice president for medical affairs and chief medical officer for Ascension Healthcare Texas/Seton Family of Hospitals. Dr. Geracci is responsible for strategy development and operational oversight of all aspects of healthcare delivery at Seton Medical Center Williamson to ensure achievement of Ascension Healthcare's "quadruple aim" of delivering high-quality care, improved clinical outcomes, better patient and provider experiences, and lower overall cost of care consistent with the organization's mission, vision, and values.

Dr. Geracci is a senior physician executive with more than 26 years of healthcare leadership experience in the largest and most complex healthcare enterprise in the world—the United States Army. Before retiring at the rank of colonel, he led military healthcare teams at all levels, including as medical director of multiple large clinics, as department chief for the military's largest primary care department, and as chief medical officer for an army division and corps. Colonel Geracci is a proven effects-oriented leader experienced in building, developing, and leading multidisciplinary teams capable of planning and executing comprehensive health services support in the most complex environments such as assignments and combat deployments to Bosnia, Korea, Iraq, and Afghanistan.

A disruptive innovator, Dr. Geracci has effectively driven and led organizational change in an institution known for bureaucracy. Serving as director of Prehospital Trauma Care for the Department of Defense's (DoD's) Joint Trauma System, senior combat capability developer for the Army Medical Department, consultant to the Army Surgeon General for Operational and Deployment Medicine, and on the DoD's Committee on Tactical Combat Casualty Care, he helped to transform military medicine into a true learning healthcare system, ensuring lessons of the past 17 years of war have not been lost but rather codified in doctrine and policy.

Introduced by Brian Lidiak, Vice President and Chief Operating Officer

Seton Medical Center Williamson



Ascension



Seton

Healthcare Provider Presentations

Friday, May 18, 2018 // 1:30 – 3:25 pm

Moderator: Lawrence Estaville, Director, Texas Atlas Project, Department of Geography, Texas State University

Presenters

Baylor Scott & White Health

Ann-Marie Price, Director, Project Management and Community Development

Ascension Texas and Seton Medical Center

Brian Lidiak, Vice President and Chief Operating Officer

Texas Oncology

Sarah Green, Manager, Marketing Services

San Antonio Metropolitan Health District

Rita Espinoza, Chief of Epidemiology

Williamson County and Cities Health District

Victoria Lippman, Director, Program Eligibility and Social Services

Dell Medical School

Nick Arledge, Executive Director of Clinical Operations

College of Health Professions, Texas State University

Ruth Welborn, Dean

Conference Wrap-Up

Friday, May 18, 2018 // 3:30 – 3:55 pm

Alberto Giordano, Chair, Department of Geography, Texas State University

Health Professions State-of-the-Art Facility Tour

Friday, May 18, 2018 // 4:00 – 5:00 pm

Chris McClanahan, Director, Simulation and Interprofessional Education, St. David's School of Nursing, Texas State University



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Institute for Government Innovation

SAVE THE DATE

May 21 – 22, 2020

Thank you for joining us at the
inaugural Health & GIS Conference.
See you at the **May 2020** Texas State
Health & GIS Conference.



Ruth Welborn

Dean, College of Health Professions



Mary Brennan

Dean, College of Liberal Arts

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