

# KATE GOODIN, MPH, MS

## EDUCATION

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- 2014-2016      Arizona State University      Tempe, AZ  
*Master of Science in Biomedical Informatics*
- Applied Project Title: Evaluation of Health Information Exchange Connection for a Local Public Health Department
- 2012-2013      University of Illinois at Chicago      Chicago, IL  
*Public Health Informatics Certificate*
- Council of State and Territorial Epidemiologists (CSTE) scholarship recipient.
  - Integrative Paper Title: Practical implications for implementation of federal data sharing guidelines by state health departments and the effect on HIV data availability.
- 2004 - 2006      The George Washington University      Washington, DC  
*Master of Public Health*
- Concentration in Epidemiology and Biostatistics.
  - Special Project Title: Complaints against food service establishments in the City of Alexandria, VA and their implications on subsequent restaurant inspections.
- 2001 - 2004      Arizona State University      Tempe, AZ  
*Bachelor of Science*
- Majored in Microbiology.
  - Senior Thesis Title: Community health controls for disease transmission among rural communities in Uganda.
  - Dean's Circle Scholarship recipient, 2003.
  - Graduated Cum Laude.

## WORK EXPERIENCE

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- 2019 - Present      Tennessee Department of Health      Nashville, TN  
*Communicable and Environmental Diseases and Emergency Preparedness*  
*Surveillance Systems and Informatics Program Director*
- Supervision of a team of staff responsible for surveillance systems management, database management, and informatics tasks.

- Oversight of interoperability of data management systems, data transport, electronic laboratory reporting, electronic case reporting, and implementation and management of surveillance systems
- Work with other Division programs to understand and meet their programmatic data needs.
- Develop Division-wide informatics plans.

2013 – 2019 Maricopa County Department of Public Health Phoenix, AZ  
*Disease Control Division, Office of Epidemiology*  
*Public Health Informatics & Epidemiology Program Manager*

- Supervision of the Epidemiology and Data Services Program.
- Development of a public health informatics program within the DPH and implementation through needs assessment and staff allocation.
- Improve data sharing capacity within DPH and encourage data driven decision making.
- Increasing access to relevant data sources on health-related topics for community partners and stakeholders.
- Overseeing directed community coalition building around community health needs assessments as well as climate change.
- Project management including electronic data collection systems development, information sharing protocol development, and coalition building.
- Technical advisor regarding data collection, storage, and analytic methods.
- Review surveillance data reports, data requests, and program documents for accuracy, relevance, and scientific findings.
- Research and analysis leading to peer-reviewed publications.
- Brought on-board two affiliated faculty members at Arizona State University.

2011 - 2013 Florida Department of Health Tallahassee, FL  
*Bureau of Communicable Diseases, HIV/AIDS and Hepatitis Section*  
*Senior Epidemiologist*

- Supervision of the Reporting Unit, a group of nine individuals.
- Project management including Careware systems testing, data consolidation and exchange, information sharing.
- Technical advisor regarding data collection, storage, and analytic methods.
- Review surveillance data reports, data requests, and program documents for accuracy, relevance, and scientific findings.

- Research and analysis leading to peer-reviewed publications.
- Public speaking regarding HIV/AIDS epidemiology, trends, program initiatives, and program goals including disparities research.
- Implementing quality improvement initiatives including stakeholder buy-in, evidence-based selection of measures, and coordination with state and federal program goals.
- Ad hoc data analysis to support HIV/AIDS prevention, patient care, and testing initiatives.
- Member of the Florida Department of Health Institutional Review Board (IRB).

2007 - 2011      Florida Department of Health      Tallahassee, FL  
*Bureau of Epidemiology*  
*Surveillance Epidemiologist*

- Managed a five person unit with a focus on respiratory disease surveillance, including pandemic influenza response and novel influenza detection.
- Contributed to, and served as the primary reviewer for, all work products in the Respiratory Disease Unit including numerous peer-reviewed publications and presentations at national meetings.
- Project management related to electronic lab reporting using HL-7 data and its integration into local surveillance applications including meaningful use objectives.
- Evaluated data and data systems for epidemiologic usefulness.
- Created summary reports based on electronic case reports in Florida's reportable disease surveillance system, Merlin.
- Served as a subject matter expert for Merlin development and design including review of business processes, requirements documentation, software testing, and prioritization.
- Produced a comprehensive state-wide report on selected reportable diseases in Florida on an annual basis.
- Served as the primary preparer and reviewer for multiple competitive grant applications.
- Served on several teams reviewing CDC Public Health Preparedness Cooperative Agreement funded activities, including prioritization of activities and budget allocations.
- Served as the primary investigator on two federally funded grants,

including IRB application and review.

2006 - 2007 Naval Environmental Health Center Portsmouth, VA

*EpiData Center*

*Epidemiologist*

- Pursued research tasks handed down by the Bureau of Medicine, Department of Defense, and Department of the Navy.
- Assisted in defining a surveillance system for pandemic influenza as it relates to the Department of Defense.
- Worked on developing the health surveillance activities of the Department of the Navy.
- Dealt with several large electronic health-related data sets including in-patient clinical records, ambulatory patient records, and HL-7 formatted laboratory reports.
- Evaluated data strings for usefulness using SAS.
- Completed several analysis projects regarding cancer among service members and their dependents.
- Maintained a Secret clearance.

2005 - 2006 The George Washington University Washington, DC

*Department of Epidemiology and Biostatistics*

*Graduate Administrative Assistant*

- Coordinated activities within the Department of Epidemiology and Biostatistics.
- Coordinated and helped facilitate RO1 grant submissions to the National Institutes of Health.
- Arranged travel itineraries for visiting professors and faculty.
- Facilitated interactions with the GWU IRB.

2005 City of Alexandria Department of Health Alexandria, VA

*Environmental Health Division*

*Environmental Health Intern*

- Helped to establish a West Nile Virus surveillance system.
- Collected mosquito specimens for testing.
- Identified and treated mosquito breeding areas with appropriate chemicals.
- Presented information to community members and conducted educational sessions for children regarding West Nile Virus and mosquito safety.

2005 Washington, DC Health Department

Washington, DC

## *Department of Statistics and Analysis*

### *Intern*

- Worked in the Maternal and Family Health Administration in the Department of Statistics and Analysis.
- Maintained a database of hospital discharge surveys.
- Entered data from discharge surveys into AURIS network, a large database system.
- Prepared reports on premature birth risk factors.

## PEER REVIEWED PUBLICATIONS

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Mohamed A, Alhanti B, McCullough M, Goodin K, Roling K, Glickman L. Temporal association of implementation of the Arizona Health Care Cost Containment System (AHCCCS) with changes in dental-related emergency department visits in Maricopa County from 2006 to 2012. *J Public Health Dent.* 2017 Aug 14.

Kannan VC, Hodgson N, Lau A, Goodin K, Dugas AF, LoVecchio F. Geolocalization of Influenza Outbreak Within an Acute Care Population: A Layered-Surveillance Approach. *Ann Emerg Med.* 2016 Nov;68(5):618-626.

McCullough JM, Goodin K. Clinical Data Systems to Support Public Health Practice: A National Survey of Software and Storage Systems Among Local Health Departments. *J Public Health Manag Pract.* Nov-Dec, 2016, Issue 22 Suppl 6, Public Health Informatics:S18-S26.

Ayala A, Berisha V, Goodin K, Pogreba-Brown K, Levy C, McKinney B, Koski L, Imholte S. Public Health Surveillance Strategies for Mass Gatherings: Super Bowl XLIX and Related Events, Maricopa County, Arizona, 2015. *Health Secur.* 2016 May-Jun 2016, Volume 14, Issue 3, pp. 173-84.

Mohamed A, Goodin K, Pope R, Hubbard M, Levine M. Association Between Asthma Hospital Visits and Ozone Concentration in Maricopa County, Arizona (2007-2012). *J Environ Health.* May 2016, Volume 78, Issue 9, pp. 8-13.

McCullough M, Goodin K. Patterns and correlates of public health informatics capacity among local health departments: an empirical typology. *Online J Pub Health Info.* Winter 2014, Volume 6, Number 3.

Fowlkes A, Giorgi A, Erdman D, Temte J, Goodin K, Di Lonardo S, Sun Y,

Martin K, Feist M, Linz R, Boulton R, Bancroft E, McHugh L, Lojo J, Filbert K, Finelli L; IISP Working Group. Viruses associated with acute respiratory infections and influenza-like illness among outpatients from the Influenza Incidence Surveillance Project, 2010-2011. *J Infect Dis*. June 2014, Volume 1, Issue 209, Number 11, pp. 1715-25.

Doyle TJ, Goodin K, Hamilton JJ. Maternal and neonatal outcomes among pregnant women with 2009 pandemic influenza A(H1N1) illness in Florida, 2009-2010: a population-based cohort study. *PLoS One*. October 2013, Volume 24, Issue 8, Number 10.

Fowlkes A, Dasgupta S, Chao E, Lemmings J, Goodin K, Harris M, Martin K, Feist M, Wu W, Boulton R, Temte J, Brammer L, Finelli L. Estimating influenza incidence and rates of influenza-like illness in the outpatient setting. *Influenza Other Respir Viruses*. September 2013, Volume 7, Issue 5, pp. 694-700.

Regan J, Fowlkes A, Biggerstaff M, et al. Epidemiology of influenza A (H1N1)pdm09-associated deaths in the United States, September-October 2009. *Influenza Other Respir Viruses*. November 2012, Volume 6, Issue 6.

Cox C, Goodin K, Fisher E, et al. Prevalence of 2009 Pandemic Influenza A (H1N1) Virus Antibodies, Tampa Bay Florida — November–December, 2009. *PLOS One*. December 2011, Volume 6, Issue 12.

Desai R, Esposito DH, Lees C, Goodin K, et al. Rotavirus-Coded Deaths in Children, United States, 1999-2007. *Pediatric Infectious Diseases Journal*. November 2011, Vol 30, Issue 11, pp. 986-8.

Skarbinski J, Jain S, Bramley A, et al. Hospitalized Patients with 2009 Pandemic Influenza A (H1N1) Virus Infection in the United States—September–October 2009. *Clinical Infectious Diseases*. January 2011, Volume 52, Supplement 1, pp. S50-9.

Suarthana E, McFadden JD, Laney AS, et al. Occupational Distribution of Persons With Confirmed 2009 H1N1 Influenza. *Journal of Occupational and Environmental Medicine*. December 2010, Volume 52, Number 12.

Dharan NJ, Gubareva LV, Meyer JJ, et al. Infections With Oseltamivir-Resistant Influenza A(H1N1) Virus in the United States. *Journal of the American Medical Association*, March 2009.

Goodin AK, Kubiak G. Correlation Between HL-7 Microbiology and Pharmacy Out Patient Data: A Case Study Using Influenza. *Advances in*

*Disease Surveillance*, 2007, Volume 4, pg. 93.

Goodin AK, Klontz K. Do Customer Complaints Predict Poor Restaurant Inspection Scores? The Experience in Alexandria, Virginia 2004-2005. *Journal of Food Safety*, February 2007, Vol. 27, No. 1, pp. 102-110.

## CONFERENCE PRESENTATIONS

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Goodin K. *Use of a Statewide HIE for LHD Surveillance*. Presented at the National Association of County and City Health Officials Annual Conference, 11-13 July 2017.

Goodin K. *Public Health Implications and Usage of Electronic Death Registration Systems across the Disaster Life Cycle, One Jurisdictional Perspective*. Presented at the 2016 Disaster Epidemiology Workshop, March 2016.

Berisha V, Gettel A, Goodin K. *Exploring BioSense Data to Identify Homeless Patients in Maricopa County, Arizona 2015*. Poster presentation at the American Public Health Association 2016 Annual Meeting & Expo. 29 Oct - 2 Nov 2016.

Sullivan R, Sarker A, O'Connor K, Goodin A, Karlsrud M, Gonzalez G. *Finding Potentially Unsafe Nutritional Supplements from User Reviews with Topic Modeling*. Presented at the Pacific Symposium on Biocomputing, 2016.

Goodin K. *Using CASPER Pre-Emptively: Heat Vulnerability and Emergency Preparedness Needs Assessment, Maricopa County, Arizona, 2015*. Presented at the 2016 Summit on Environmental Hazards and Health Effects, 26-29 January 2016.

Goodin K, Eisen-Cohen E. *Conception to Consensus Building for a Coordinated Community Health Needs Assessment Amongst Non-Profit Hospitals, Federally Qualified Health Centers, and Public Health*. Presented at the Council of State and Territorial Epidemiologists Annual Conference, 14-18 June 2015.

Kasper AM, Warner M, Nielsen L, Alhija Z, Molchan C, Sircar K, Goodin K, Noe R. *Determining Cause of Death during Disaster Events Using Electronic Death Registration Systems*. Presented at the Council of State and Territorial Epidemiologists Annual Conference, 14-18 June 2015.

Goodin K. *HIV and Hepatitis Mortality in Florida: Examining Trends, Disparities, and Areas for Intervention*. Poster presentation at the 2012 Council of State and Territorial Epidemiologists Annual Conference, 3-7 June 2012.

Goodin K, Hamilton JJ, Sullivan R, Mitas, J, Luce C. *Utilization of Electronic Laboratory Reports in Real-World Public Health Surveillance*. Presented at the 2011 Public Health Informatics Conference, 21-24 August 2011.

Goodin K, DiCesare D, Sullivan R, Mitas J, Hamilton J, Luce C, Chang H. *Electronic Inter-State Notification of Reportable Lab Results: Florida and New York State Implementation*. Presented at the 2011 Public Health Informatics Conference, 21-24 August 2011.

Goodin K, *Evaluation of Fatal Meningococcal Disease Case Reporting*. Poster presentation at the 2011 Council of State and Territorial Epidemiologists Annual Conference, 5-9 June 2011.

Goodin K, Hamilton JJ, Sullivan R, Mitas, J, Luce C. *Utilization of Electronic Laboratory Reports in Real-World Public Health Surveillance*. Poster presentation at the 2011 Council of State and Territorial Epidemiologists Annual Conference, 5-9 June 2011. One of four outstanding poster finalists.

Goodin K, *Outbreak of Invasive Staphylococcus aureus Associated with a Local Pain Management Clinic*. Presented at the 2010 Council of State and Territorial Epidemiologists Annual Conference, 6-10 June 2010.

Goodin K, Kite-Powell A, Hamilton JJ. *Correlation of National Influenza Surveillance Data to the Local Experience*. Presented at the 2009 Council of State and Territorial Epidemiologists Annual Conference, 7-11 June 2009.

Goodin K, Hopkins R, Hamilton JJ, McConnell K. *Respiratory Syncytial Virus Surveillance in Florida: A Real-World Policy Change Based on Surveillance Data*. Presented at the 2009 Council of State and Territorial Epidemiologists Annual Conference, 7-11 June 2009.

Goodin K, Kite-Powell A, DePasquale J, Hamilton JJ. *Improving Timeliness of Infectious Disease Notification Through Electronic Laboratory Reporting, Florida*. Presented at the 2009 Council of State and Territorial Epidemiologists Annual Conference, 7-11 June 2009.

Goodin K, Kite-Powell A, Hamilton JJ. *Correlation of National Influenza Surveillance Data to the Local Experience*. Presented at the 6<sup>th</sup> Annual Public Health Information Network Conference. 26 Aug 2008.



Goodin AK, Hamilton JJ, Hopkins RS, Middaugh J. *Epidemiology of Meningococcal Disease in Florida: Effects of a Possible University Health System Policy Change*. Poster Presentation at the 2008 Council of State and Territorial Epidemiologists Annual Conference. 10 June 2008.

Goodin AK, Hamilton JJ, Hopkins RS, Middaugh J. *Epidemiology of Meningococcal Disease in Florida: Effects of a Possible University Health System Policy Change*. Poster Presentation at the 13<sup>th</sup> Annual Epidemiology Statewide Seminar. 28 May 2008.

Goodin K, McCabe A, Rennix, C, Kubiak, G, Moseley R.. *Clinical experience of military personnel and their beneficiaries receiving influenza specific anti-viral medications*. Poster Presentation at the International Conference on Emerging Infectious Diseases (ICEID), Atlanta, Georgia. 16-19 March 2008.

Goodin AK, Kubiak G. *Correlation Between HL-7 Microbiology and Pharmacy Out Patient Data: A Case Study Using Influenza*. Poster Presentation at the 6<sup>th</sup> Annual International Society for Disease Surveillance Conference. 11 Oct 2007.

Goodin AK, Kubiak G. *Correlation Between HL-7 Microbiology and Pharmacy Out Patient Data: A Case Study Using Influenza*. Presented at the 10<sup>th</sup> Annual Force Health Protection Conference. 10 Aug 2007.

Goodin AK, Rennix C. *Comparing Two Methodologies for Calculating Rates of Neoplasms in an Active Duty Population*. Presented at the 9<sup>th</sup> Annual Naval Occupation Health and Preventative Medicine Conference. 17 Mar 2007.

## COMMITTEES AND TEAM MEMBERSHIPS

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Executive Board for Council of State and Territorial Epidemiologists, Surveillance and Informatics Chair, 2018-present

Council of State and Territorial Epidemiologists Electronic Laboratory and Disease Reporting Subcommittee, Chair, 2015-2018

President of the Arizona Public Health Association, 2014-present

National Association of City and County Health Officials, Informatics Champion for Arizona and Informatics Champion Workgroup Co-Chair, 2014-present

National Association of City and County Health Officials, Biosurveillance Workgroup Member, 2014-present

Council of State and Territorial Epidemiologists, Member, 2007-present

Mayo Clinic Health Equity Advisory Board, Member, 2014-2016

Florida Department of Health Institutional Review Board, Member, 2011-2013

Public Health Informatics Institute, Redesigning Public Health Surveillance in an eHealth World, Workgroup Member, 2011-2012

Council of State and Territorial Epidemiologists, Case Report Standardization Work Group, Member, 2008-2010

Florida Department of Health Strategic Planning and Epidemiology Capacity Team, Member, 2007-2011

## HONORS AND AWARDS

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Article "Maternal and neonatal outcomes among pregnant women with 2009 pandemic influenza A(H1N1) illness in Florida, 2009-2010: A population-based cohort study" was among the top 25% most cited PLOS ONE articles.

Davis Productivity Award Plaque, Development of Automated Chronic Hepatitis Case Processing, 2012.

Davis Productivity Award Plaque, Development of Automated Summaries of Influenza Electronic Laboratory Reports, 2011.

Davis Productivity Award Plaque, Increase Utilization of Fingerprint Data for Enteric Diseases (PFGE Electronic Import), 2011.

Davis Productivity Award Certificate of Commendation, Improved Efficiency and Design of Influenza Surveillance Report, 2011.

Davis Productivity Award Plaque, Instituted Semi-Automated Notifiable Disease Case Classification System, 2009.

Director's Special Recognition Award for completion of the 1997-2006 Annual Morbidity Statistics Report, August 2008.

## ADDITIONAL ACTIVITIES, LEADERSHIP, AND SKILLS

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Participated on a CDC-sponsored multidisciplinary team to teach data management and program development course centered around influenza to Balkan countries in Zagreb, Croatia, March 2018.

Participated in an ongoing CDC-sponsored mentorship program with Montenegro and Serbia to enhance influenza surveillance in their countries, April 2018 through present.

Established a NASA DEVLOP node at Maricopa County Department of Public Health in conjunction with Arizona State University.

Served as a mentor for the NACCHO/CSTE/CDC Health Services Integration Program Fellowship, Felicia Trembath 2014-2015.

Served as a mentor for the Mandela Washington Fellowship for Young African Leaders, 2016, 2017 classes.

Clinician/Practitioner Health Information Technology Professional (HITPro) Certified.

Computer programs:

Access, ArcGIS, Microsoft Office Suite, SAS, SPSS, T-SQL

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