Jacqueline Merrill, PhD, MPH, RN, FAAN, FACMI

545 West 217th Street   Mobile 646.752.4454
New York, New York 10034   jam119@columbia.edu

ACADEMIC TRAINING

2006   Columbia University School of Nursing, Doctor of Philosophy
2001   Columbia University Mailman School of Public Health, Master of Public Health
1998   Columbia University School of Nursing, Bachelor of Science
1980   State University of New York, Fashion Institute of Technology, Associate in Applied
          Science, magna cum laude
1972   Massachusetts General Hospital School of Nursing, Diploma in Nursing

THESIS

Merrill– Matzner, JC. 2006. A Network Analysis of Information Use in a Public Health Organization. *Dissertation Abstracts International 66(12)*: 6529 (UMI No. AAT 3199574). Sponsor: S. Bakken

APPOINTMENTS AND POSITIONS

2016 –   Professor of Nursing (in Biomedical Informatics) at CUMC
2011 – 2016   Associate Professor of Nursing (in Biomedical Informatics) at CUMC
2011 –   Director, Laboratory for Complexity, Informatics and Organizational Study (LICOS);
                     Faculty, Center for Health Policy, School of Nursing, Columbia University
2006 – 2015   Associate Clinical Director, Center for Advanced Information Management (Empire
                     State Development Corp, NYSTAR), Columbia University
2006 – 2011   Associate Research Scientist, public health informatics faculty, Department of
                     Biomedical Informatics, College of Physicians and Surgeons, Columbia University
2006   Interim Research Director, Center for Health Policy, School of Nursing, Columbia
                     University
2004 – 2005   Graduate Research Assistant, Center for Evidence–based Practice in the
                     Underserved, School of Nursing, Columbia University
2002 – 2004   Pre–Doctoral Trainee, NINR Center for Reducing Health Disparities through
                     Informatics, School of Nursing, Columbia University
2001 – 2002   Project Coordinator/Public Health Specialist, Center for Public Health Preparedness,
                     Mailman School of Public Health, Columbia University
1999 – 2002   Project Manager, Center for Health Policy, Columbia University School of Nursing
1998 – 1999   Public Health Nurse, special assistant to aassociate commissioner for professional
                     development initiatives, Office of Nursing and Quality Improvement, New York City
                     Department of Health
1992 – 1999   Public Health Nurse, Bureau of School Health, New York City Department of Health

POSITIONS continued

Positions in Design and Production
1985 – 1991   Bloomingdale's Department Stores, photo stylist, location manager
1988 – 1989   J.P. Stevens, Inc., corporate textile showroom designer, design manager
1981 – 1985   J. Merrill & Co., Inc., owner/designer, women's apparel
1980 – 1981   Moss/Shamask, Ltd., design assistant, couture women's apparel
1978 – 1979   Sybil Weinman Fashion Productions, production coordinator

Positions in Clinical Nursing
1978   Rockefeller University Hospital, New York City; ambulatory medical research unit
               staff nurse
1977   Roosevelt Hospital, New York City; recovery room, thoracic and cardiac post
               operative critical care staff nurse
1975 – 1977   Massachusetts General Hospital; surgical and burn trauma critical care staff nurse
1972 – 1975   Boston City Hospital; surgical staff nurse; thoracic critical care staff nurse

HONORS AND AWARDS

2014   Fellow American College of Medical Informatics
2014   Fellow American Academy of Nursing
2010, 2012   Institute on Systems Science and Health (ISSH) supported by National Institutes of Health
               Office of Behavioral and Social Sciences Research and Centers for Disease Control and
               Prevention. Juried attendee 2010, Lecturer 2012
2006 –2008   Public Health Scholar, Pfizer Medical Academic Partnership Program
2006   Fellow New York Academy of Medicine
2005   Doctoral Consortium on Organizational Issues in Informatics Annual Symposium,
               American Medical Informatics Association, Juried attendee
2005   Center for Analysis of Social and Organizational Systems Summer Institute, Institute for
               Software Research International, School of Computer Science, Carnegie Mellon University
2002 –2004   Pre– Doctoral Training Award, National Institute of Nursing Research, Columbia
               University School of Nursing
2000   Sigma Theta Tau International Honor Society of Nursing, Alpha Zeta Chapter

ACADEMIC TEACHING AND SERVICE

Academic Courses
Columbia University School of Nursing
    N6920/N7005 Health and Social Policy in the Context of Practice
        2012 summer enrollment 108; fall enrollment 97
        2013 summer enrollment 133; fall enrollment 91
        2014 summer enrollment 136; fall enrollment 87
        2015 summer enrollment 157; fall enrollment 109
        2016 spring enrollment   15
    N6825 Foundations of Research
        2012 spring, enrollment 15
    N9502 Individual Guided Study in Research
        2012 Health Services Research
        2016 Program Evaluation

ACADEMIC TEACHING AND SERVICE continued

School and University Committees
Columbia University
      2012 –   Data Science Institute
                  2016 –   Committee member, Center for Health Analytics
School of Nursing
      2012 –   PhD Curriculum Committee
      2014 –   Diversity Committee
      2015 – 2018   PhD Qualifying Exam Committee (Chair 2017)
      2017 –   Data Safety and Monitoring Committee (AHRQ R21 HS023963)
Department of Biomedical Informatics
      2012 –   Informatics Intervention Research Collaborative (I2RC)
      2007 – 2011   Training Committee, Admissions Committee
Department of Epidemiology
      2012 – 2015   Columbia University Systems Science Program (CUSSP)

Doctoral Dissertation Committees
Sponsor, Meghan Reading, PhD dissertation
Committee Member, Malak Alhusaini, PhD dissertation "Evaluation of Nursing Research Capacity in
      Middle East"
Committee Member, Abigail Kotowski, PhD dissertation "Development of Core Competencies for
      Assessing and Managing Suicide Risk for Baccalaureate Nursing Education" CUNY Graduate
      Center, graduated May 2015
Sponsor, Andrew B. Phillips, PhD dissertation "An Integrative Review of Technology Transformation in
      Health Care" graduated October 2012
Sponsor, Jonathan Keeling, PhD dissertation "An Ontology of Public Health Law" graduated May 2012
Committee Member, Olivia Velez, PhD dissertation "Design and usability of a mHealth tool for midwives in
      rural Ghana," graduated October 2011
Committee Member, Sunmoo Yoon, PhD dissertation "Web Mining of Tweets for Physical Activity,"
      graduated May 2011.
Committee Member, Georgia Persky, PhD dissertation: "The Relationship of Patient Satisfaction to
      Environmental Turbulence in Acute Care Units," graduated May 2010
Committee Member, Michael Bales, PhD dissertation: "Sciologer: Visualizing and Exploring Scientific
      Communities," graduated October 2009

Post– Doctoral Fellows
      Andrew B Phillips, MGH Research Fellowship, Applied Systems Science 2015 - 2017

PROFESSIONAL SERVICE

Federal Review Panels

2017	Reviewer, AIDS & AIDS Related Research Integrated Review Group, Center for Scientific Review, National Institutes of Health (ACE and ZRG1 AARR-Q(92)
2011	Reviewer, Increasing National Resilience to Hazards and Disasters: A Workshop Summary Perspective from the Louisiana and Mississippi Gulf Coast, National Research Council
2010 – 2011	Adhoc member, AHRQ Healthcare Technology and Dissemination Sciences Study Section
2009	Technical expert mail reviewer, NIH Challenge Grant Program pursuant to American Recovery and Reinvestment Act
2007– 2009	Adhoc reviewer, Developing Integrated Child Health Information Systems: Promoting the Use of Health Information Technology; HRSA, Division of Independent Review

PROFESSIONAL SERVICE continued

Editorial Boards
2016   Associate Editor, BMC Health Services
2002 – 2006   Editorial Board, Disaster Management & Response

Peer reviewer
2016   PLOS ONE
2016   Western Journal of Nursing Research
2015   American Journal of Preventive Medicine
2015   International Journal of Environmental Research and Public Health
2015   Sage Open
2014 – 2016   Applied Clinical Informatics
2010 – 2017   Journal of the American Medical Informatics Association
2007 – 2016   BMC journals
2007 – 2017   Public Health Nursing
2006 – 2016   Proceedings of American Medical Informatics Association
2005 – 2016   American Journal of Public Health
2003 – 2016   Journal of Public Health Management and Practice
2002 – 2016   American Journal of Infection Control
2002 – 2006   Health Affairs

External Reviews for Tenure and Promotion
2015   Rutgers, the State University of New Jersey (1)

Advisory Committees, Task Forces, Work Groups
2015 –   Health Policy Advisory Council, American Association of Colleges of Nursing
2015 –   Environmental and Public Health Committee, American Academy of Nursing
2015 –   Model Design and Analytic Methodology Work Group, National Health Security
               Preparedness Index, Robert Wood Johnson Foundation
2015   Practice and Population Topic Co– lead, American College of Medical Informatics
               Winter Symposium.
2015   Reviewer, UW– Milwaukee's Research Growth Initiative
2013   Inaugural Advisory Committee, Centers for Medicare and Medicaid Services hACT,
               Federally Funded Research and Development Center (FFRDC), MITRE Corp.
2011 – 2012   Steering Committee, National Voluntary Consensus Standards for Population Health,
               National Quality Forum
2011   Invited expert, Setting the Public Health Informatics Research Agenda: Research and
               Evaluation section, American Medical Informatics Association, Spring Congress:
2011   Work Group, Public Health Services and Systems Research Agenda, Centers for
               Disease Control and Prevention and Robert Wood Johnson Foundation
2011 –   National Advisory Committee, Centers of Excellence in Public Health Workforce the
               University of Michigan School of Public Health
2010 – 2014   Steering Committee, New York Public Health Practice– Based Research Network,
               Office of Public Health Practice, New York State Department of Health
2010   Workgroup, Public Health Preparedness and Response Core Competency
               Development Project, Centers for Disease Control and Prevention, Office of Public
               Health Preparedness and Response,
2007 – 2014   Scientific Planning Committee, Regional Medical Informatics Update, Center for
               Advanced Information Management, Columbia University
2009 – 2013   National Advisory Committee, University of Pittsburgh School of Public Health
               Preparedness and Emergency Response Research Center (PERRC)

PROFESSIONAL SERVICE continued

Advisory Committees, Task Forces, Work Groups continued

2008	Co– chair, Public Health Informatics Track, American Medical Informatics Association Spring Congress,
2007	Producer, *A Career in Public Health Nursing: A Video to Promote and Recruit Public Health Nurses*, independent production with financial support from AFSCME AFL/CIO District Council 37, Local 436 United Fed. of Nurses & Epidemiologists
2006	Reviewer, Medical Library Association, Public Health/Health Administration Section, Core Public Health Journal Project,
2002	Advisory Committee, Project Public Health Ready, National Association of City and County Health Officials
2000 – 2002	Public Health Informatics Competency Workgroup, American Medical Informatics Association

Professional Affiliations

2013 –	American Nurses Association, New York State Nurses Association
2001 –	American Medical Informatics Association, People & Organizational Issues WG
1999 –	AcademyHealth, Public Health Systems Research Interest Group
1999 –	American Public Health Association, Public Health Nursing Section

LICENSES AND CERTIFICATIONS

Registered Professional Nurse, Massachusetts #110608
Registered Professional Nurse, New York #291563–1
1999 – 2004 Certified Community Health Nurse, American Nurses Credentialing Center

RESEARCH

Pending
2017 – 2021 NIA 1R01AG056347-01 MPI, *A Longitudinal Network Study of Alzheimer's and Dementia Care in Relation to Disparities in Access and Outcomes* M Ryvicker, MPI

Active
2016 – 2017 CDC U01 IP000618 Co-Investigator, Mobile Surveillance for ARI/ILI in the Community (MOSAIC). Stockwell (PI)
2016—2021 NINR 1P30NR016587–01 Co–investigator *Precision in Symptom Self–Management Center (PriSSM)* S Bakken, PI ($2,700,000)
2015– 2017 AHRQ R21-11676672 **Sub Contract PI** Sub contract #4513C Visiting Nurse Service of New York. *Developing Dashboards at the Point of Care in Home Care Settings*, D. Dowding Project PI ($300,000)
2014 –2018 HRSA–UB6HP27878 Co–investigator; *Public Health Training Center* M Murrman, PI. A partnership between Mailman School of Public Health and public health agencies in DHHS Region 2 (NY, NJ, PR, USVI). ($2,700,000)
2014 – 2017 NLM-T15 LM007079 Faculty Advisor *Training in Biomedical Informatics at Columbia University* G Hripcsak, Principal Investigator. An NLM-supported training program initiated in 1992. ($3,100,000)
2013 – 2016 NINR–T32 Faculty advisor *Comparative and Cost-Effectiveness Research Training for Nurse Scientists* P Stone, Principal investigator. ($1,047,477)
2013 – 2016 AHRQ–T32 Faculty advisor *Training in Interdisciplinary CER for High-Risk, Underserved Populations (TICER)* P Stone, Principal investigator ($2,942,197)

RESEARCH continued

<u>Completed</u>

2013 – 2015 CUMC intramural. Co–investigator *PATCH: Patterns of Care in Heart Failure* P Stetson, Principal investigator. Analysis of patient care networks using EHR and clinical data ($43,000).

2008 – 2015 NYS C0100123 Associate clinical director, Center for Advanced Technology. G. Hripcsak, Director, New York State Office of Science, Technology and Research (NYSTAR) Competitive award program to support academic/industry collaboration ($ 900,000/year)

2012 – 2014 NSF 1066115 **Sub Contract PI**, Sub– contract #7218, *Systems-Level Mass Fatality Preparedness*. R Gershon, Project Principal Investigator. National survey and network analysis to evaluate preparedness in the mass fatality response sector ($503,083)

2010 – 2013 AHRQ R01HS019853 Co– investigator, *Washington Heights Initiative Community-Based Comparative Effectiveness Research (WICER)* Suzanne Bakken/Adam Wilcox, Principal investigators. Creating and populating an informatics infrastructure ($6,000,000)

2012 – 2013 **Principal investigator,** *Organization Network Analysis as Evidence-based Decision Support for Performance Management in Florida Local Health Departments.* CDC Strengthening Public Health Infrastructure for Improved Health Outcomes, Florida Department of Health ($100,000)

2012 – 2013 Co- investigator, *A review of the impact of laws related to hospital acquired infections.* Patricia Stone, Principal investigator. CDC through Temple University Coordinating Center for PH Law Research. Instrument development and analysis for a national study of state HAI regulations ($100,000)

2011– 2012 **Principal investigator,** *System– wide Analysis of Local Health Officers Professional Advice Networks*. RWJF through University of Kentucky Coordinating Center for Public Health Services and Systems Research ($167,000)

2011 – 2012 NLM *Developing an Evaluation Plan for NLM AIDS Community Information Outreach Program*. Co-investigator, An evaluation of two decades of program funding to community organizations. Principal investigator, S Bakken ($200,000)

2008 – 2012 HEAL NY Phase 5**,** Subcontract 08091300 **Principal investigator**, *Evaluation of Public Health Use Case Implementation*. Prime contract C023699 Health Care Efficiency and Affordability Law for New Yorkers Capital Grant Program. Health Information Technology Evaluation Collaborative (HITEC), Weill Cornell Medical College, R. Kaushal, Principal investigator. ($374,184)

2009 – 2010 RWJF#66534 **Principal investigator**, *A Network Analysis of the Public Health Services and Systems Research Community*. ($157,391)

2007 – 2010 CDC 1U38DP001085– 01 Co– investigator, *Collaborations in Public Health Law as It Relates to Oral Health Issues*. Kristine Gebbie, Principal Investigator. Develop and populate an edatabase on fluoridation legislation ($239,929)

2007 – 2009 CDC R18 HK000057 Co– investigator, *A study of an EHR to translate public health practices*, R Kukafka, Principal Investigator. An evaluation study of a large scale implementation of public health enabled electronic health record for primary care practices in NYC ($440,600)

2007 – 2008 RWJF #59946 **Principal investigator**, *Comparison of public health organizational characteristics using dynamic organizational network analysis.* How organizational networks are linked to process and outcomes in a national sample of health departments. ($210,000)

2006 – 2009 NLM G08LM008983-01 Subcontract **Principal investigator**, *Improving Public Health Grey Literature Access for the Public Heath Workforce*, E Liddy, Principal Investigator. Evaluation of NLP to locate and summarize non– indexed public health literature from the World Wide Web. ($448,821)

2007 – 2008 Co– investigator, *Examination of the Relationship between Public Health Enabling Statutes and System Performance*, CDC through National Network of Public Health Institutes. K Gebbie, Principal Investigator. ($75,033)

RESEARCH continued

<u>Completed continued</u>
2006 – 2007 NINR P20NR07799 Sub– award **Principal investigator** *Develop Network Analysis Report Templates for Use in Local Public Health*: through Center for Evidence-Based Practice in the Underserved, S Bakken, Principal Investigator A pilot study to test network analysis as an approach to information management in public health practice ($17,534)

2006 – 2008 **Principal investigator** *Refining Organizational Network Analysis Methods for Use in Public Health,* Pfizer 2006 Public Health Scholar Award. A pilot study to modify an existing network analysis program for use in public health, baseline performance measurements for public health networks. ($130,000)

2002 – 2005 NINRT32 NR07969 Pre doctoral Trainee, Reducing Health Disparities thru Informatics, S Bakken, PI.

    2005 *A Network Analysis of a Public Health Organization*. Dissertation research funded by NLM through the New York Academy of Medicine. M Rockoff, Principal Investigator, A feasibility study to empirically describe the structure of a local health department

    2002 – 2004 *Information Needs of School Nurses*, Center for Evidence– based Practice in the Underserved and Center for Health Policy, School of Nursing. K Gebbie, Research Advisor. Proposal development to assist school nurses in translating urgent public health messages for school audiences.

    2002 – 2004 *Public Health Risk Communication*, Pilot Research, Department of Biomedical Informatics. V Patel, Research Advisor. Explore application of communication theory in emergencies and high concern events, and structural analysis of public health risk messages to support automated message authoring

    2002—2003 *HIV TIPS Project*, HRSA SPNS IT Initiative, Mailman School of Public Health. R Kukafka, Research Advisor. Structured the components of targeted health education and decision support to assist practitioners working with HIV+ clients

2002 Project Manager, *Project Public Health Ready*, CDC/ASPH Cooperative Agreement, School of Nursing. K Gebbie, Principal Investigator. Evaluation protocols for local public health agencies' preparedness exercises.

2002 Project Manager, *Bioterrorism Preparedness: Curriculum for Public Health Workers* CDC/ATPM Cooperative Agreement #TS– 0740, K Gebbie, Principal Investigator. Identification of competencies in bioterrorism preparedness and response for public health workers and develop curriculum.

2001 – 2002 Project Coordinator and Public Health Specialist, *Center for Public Health Preparedness*. CDC/ASPH Cooperative Agreement #S1544– 20/21, Stephen Morse, Principal Investigator. Development and evaluation of public health preparedness programs for NYC public health workforce.

1999 – 2001 Project Manager, *Emergency Preparedness Competencies for all Public Health Workers*. CDC/ATPM Cooperative Agreement #TS322-15/15, K Gebbie, Principal Investigator. Identification of competencies required by public health workers to respond to public health emergencies.

1999 – 2000 Project Manager, *Enumeration of Public Health Worker Pool for Core Public Health Curriculum*. HRSA/ATPM Cooperative Agreement #U76 AH 00001-03, K Gebbie, Principal Investigator. Analysis of secondary data sources to enumerate U.S. public health workforce.

PUBLICATIONS

Manuscripts in preparation

Merrill, JA, Carley, KM, Alvarado-Guzman, J, Jia, Hoamiao. A data science approach to understanding care coordination in a cohort of heart failure patients

Travers, JL, Salas, M, **Merrill JA** (in review**)** Relationships among DNP and PhD students after initiating a doctoral student organization. *Nursing Education*

Baker, JM, Travers, JL, Buschman, P, **Merrill, JA**. (in review) Case report: an efficient nurse-led community–based service model for delivering coordinated care to persons with serious mental illness at risk for homelessness *Journal of the American Psychiatric Nurses Association*

Dowding, D, **Merrill, JA**, Onorato, N, Barron, Y, Rosati, RJ, Russell, D. (in review) The impact of home care nurses' numeracy and graph literacy on comprehension of visual display information: Implications for dashboard design. *Journal of the American Medical Informatics Association*

Dowding, D, **Merrill, JA**, Onorato, N, Russell, D. (manuscript in preparation) Technology characteristics to support continuity of care for patients with health failure in a home care setting: A focus group study.

Peer reviewed publications

Merrill, JA, Zhi, Q. Gershon, RMM. 2017. Self-reported capability for responding to mass fatality incidents in 38 state health departments. *Journal of Public Health Management and Practice, 23(1):*64-72

Beckemeier, B, Zahner, SJ, Kulbok, P, **Merrill, JA**, Kub, J. 2016. Assuring a strong foundation for our nation's public health systems: A commentary. *Nursing Outlook. 64(2016):*557-565

Arcia, A, Suero-Tejeda, N, Bales, ME, **Merrill, JA**, Yoon, S, Woolen, J, Bakken, S. 2016. Sometimes more is more: Development of infographics for tailored health communication among community members with varying levels of health literacy. *Journal of the American Medical Informatics Association, 23(1):*174 – 183

Merrill, JA, Orr MG, Chen, DY, Qi, Z, Gershon, RM. 2016. Are we ready for mass fatality incidents? Preparedness of the US mass fatality infrastructure. *Disaster Medicine and Public Health Preparedness, 10(1):*87-97

Phillips. AB, **Merrill, JA**. 2015. Innovative use of the integrative review to evaluate evidence of technology transformation in healthcare. *Journal of Biomedical Informatics*, 58: 114 – 121.

Merrill, JA, Sheehan, B, Carley, KM, Stetson, PD. 2015. Transition networks in a cohort of patients with congestive heart failure: A novel application of informatics methods to inform care coordination. *Applied Clinical Informatics 6(3)*: 548– 564.

Stone, PW, Pogorzelska–Maziara, M., Reagan, J, **Merrill, JA**, Sperber, B, Cairns, C, Penn, M, Ramanathan, T, Mothershed E, Skillen, E. 2015. Impact of laws aimed at healthcare– associated infection reduction: A qualitative study. *BMJ Quality & Safety,* doi: 0.1136/bmjqs– 2014– 003921

Gershon, RMM, Orr, MG, **Merrill, JA**, Chen, DY, Riley, HEM, Sherman, MF. 2014. Mass fatality preparedness among medical examiner/coroners in United States: A cross– sectional study. *BMC Public Health,* 14(1):1275.

Weng, C, Bales, ME, Dine, DC, **Merrill, JA,** Johnson, SB, Bakken, SH. 2014. Associating co– authorship patterns with publication impact. *Journal of Biomedical Informatics, 52:311– 318.*

Boulton, ML, Beck, AJ, Coronado, F, **Merrill, JA**, Friedman, CP, Stamas, GD, Tyus, N, Sellers, K, Moore, J, Tilson, H, Leep C. 2014 Public health workforce taxonomy. *American Journal of Preventive Medicine,* 47(5S3): S314– S323

Merrill, JA, Keeling, JW. 2014 Understanding the local public health workforce: Labels versus substance. *American Journal of Preventive Medicine,* 47(5S3): S324– S330

Phillips, AB, Wilson, RV, Kaushal, R, **Merrill, JA**. 2014. Implementing health information exchange for public health reporting: A comparative evaluation of three regional health information organizations in New York State. *Journal of the American Medical Informatics Association*, 21(1): e173–177.

PUBLICATIONS continued

Peer reviewed continued

Keeling, JW, Pryde, J, **Merrill, JA**. 2013. The influence of management and environment on local health department organizational structure and adaptation: a longitudinal study using network analysis. *Journal of Public Health Management and Practice*, 19(6):598– 605

Park, CS, Byon, H, Keeling, JW, Beitsch, **Merrill, JA**. 2013. Preliminary findings from an interventional study using network analysis to support management in local health departments in Florida. *Frontiers in Public Health Services and Systems Research,* http://uknowledge.uky.edu/frontiersinphssr/vol2/iss6/6/

Orr, M, **Merrill, JA**. 2013. Diffusion of Innovation across a national local health department network: A simulation approach to policy development using agent– based modeling. *Frontiers in Public Health Services and Systems Research*, http://uknowledge.uky.edu/frontiersinphssr/vol2/iss5/3

Merrill, JA, Keeling, JW, Phillips, AB, Kaushal, R, Senathirajah, Y. 2013. Effects of automated immunization registry reporting via an EHR deployed in community practice settings, *Applied Clinical Informatics*, 4(2): 267– 275

Messeri, P., Khan, S., Millery, M., Campbell, A., **Merrill, JA**. Shih, S., Kukafka, R. 2013. An information systems model of determinants of electronic health record use. *Applied Clinical Informatics*, 4(2):185– 200

Merrill, JA, Yoon, SC, Larson, EL, Honig, J, Reame, N. 2013. Using social network analysis to examine collaborative relationships among PhD and DNP students and faculty in a research– intensive university school of nursing. *Nursing Outlook*, 61(2): 109– 116.

Merrill, JA, Deegan, M, Wilson, RV, Kaushal, R, Fredericks, KM. 2013. A system dynamics evaluation model: Implementation of health information exchange for public health reporting. *Journal of the American Medical Informatics Association* 20: e131– e138

Merrill, JA, Orr, MG, Jeon, CY, Wilson, RV, Storrick, JM, Carley, KM. 2012. Topology of local health officials' advice networks: Mind the gaps. *Journal of Public Health Management & Practice,* 18(6):602– 8.

Merrill, JA, Carley, KM, Orr, MG, Jeon, CY, Storrick, JM. 2012. Patterns of interaction among local public health officials and the adoption of recommended practices, *Frontiers in Public Health Services and Systems Research*, 1(1): 6. Available at: http://uknowledge.uky.edu/frontiersinphssr/vol1/iss1/6

Gershon, RM, Magda, LA, Riley, HEM, **Merrill, JA**. 2011. Mass fatality preparedness in the death care sector. *Journal of Occupational and Environmental Medicine,* 53(10):1179– 86

Merrill, JA, Keeling, JW, Wilson, RV, Chen, TV. 2011. Growth of a scientific community of practice: Public health services and systems research. *American Journal of Preventive Medicine,* 41(1): 100– 104

Bales, ME, Johnson, SB, Keeling, JW. Carley, KM, Kunkel, F, **Merrill JA**. 2011. Evolution of co– authorship in public health services and systems research. *American Journal of Preventive Medicine,* 41(1): 112– 117

Merrill, J, Keeling, J, Carley, KM. 2010. A comparative analysis of eleven local health department organizational networks. *Journal of Public Health Management and Practice*, 16(6): 564– 76. NIHMSID # 473279

Merrill, J, Keeling, J, Gebbie, KM. 2009. Toward standardized, comparable public health systems data: a taxonomic description of essential public health work. *Health Services Research,* 44 (5) Part II: 1818– 41

Merrill, J, Meier, BM, Keeling, J, Jia, H, Gebbie, KM. 2009. Examination of the relationship between public health statute modernization and system performance *Journal of Public Health Management and Practice,* 15(7):292– 98. NIHMSID #473286

Meier, BM, **Merrill, J**, Gebbie, KM. 2009. Modernizing state public health enabling statutes to reflect the mission and essential services of public health. *Journal of Public Health Management and Practice,* 15(7):283 – 291

PUBLICATIONS continued

<u>Peer reviewed continued</u>

Merrill, J, Hripcsak, G. 2008. Case Report: Using social network analysis within a Department of Biomedical Informatics to induce a discussion of academic communities of practice *Journal of the American Medical Informatics Association,* 15(6):780– 82

Merrill, J, Caldwell, M, Rockoff, ML, Gebbie, KM, Carley, KM, Bakken, SB. 2008. Findings from an organizational network analysis to support local public health management. *Journal of Urban Health* 85(4):572– 84

Merrill, J, Bakken, S, Rockoff, ML, Gebbie, K, Carley, K. 2007. Description of a method to support public health information management: Organizational network analysis. *Journal of Biomedical Informatics,* 40(4):422– 28.

Rockoff ML, Cunningham DJ, Ascher MT, **Merrill J**. 2007. Information outreach to a local public health department: A case study in collaboration. *Journal of the Medical Library Association 95(3)* 355–

Aboelela, S, **Merrill, J,** Carley, KM, Larson, E. 2007. Social network analysis to evaluate an interdisciplinary research center. *Journal of Research Administration*, 38(1): 61– 75.

Gebbie, KM, **Merrill, J**, Sanders, L, Gebbie, EN, Chen, DW. 2007. Public health workforce enumeration: Beware the "quick fix." *Journal of Public Health Management and Practice*. 13(1): 72– 79.

Kaufman, D, Roberts, WD, **Merrill, J**, Lai, T, Bakken, SB. 2006. Applying an evaluation framework for health information system design. *Nursing Research. 54(6)*: S37– 42

Gebbie, KM., Valas, J., **Merrill, J**. 2006. Role of exercises and drills in the evaluation of public health in emergency response. *Prehospital and Disaster Medicine*, *21(3)*:153– 7

Merrill, J. Btoush, R., Gupta, M., Gebbie, K. 2003. A History of Public Health Workforce Enumeration. *Journal of Public Health Management and Practice, 9(6):* 459– 70

Gebbie, KM, **Merrill, J,** Hwang, I, Gebbie, E, Gupta, M. 2003. The Public Health Workforce in the Year 2000. *Journal of Public Health Management and Practice*, *9(1)*: 79– 86

Gebbie, KM., **Merrill, J**, Tilson, H. 2002. The Public Health Workforce. *Health Affairs, 21(6)*: 57– 67.

Qureshi, KA. **Merrill, JA**. Gershon, RM., Calero– Breckheimer, A. 2002. Emergency preparedness training for public health nurses: A pilot study. *Journal of Urban Health, 79(3):* 413– 416.

Gebbie, KM., **Merrill, J**., Hwang, I., Gupta, M., Btoush, R., Wagner, M. 2002. Identifying individual competency in emerging areas of practice: An applied qualitative research approach. *Qualitative Health Research, 12(7):* 986– 995.

Gebbie KM, **Merrill J**. 2002. Public health worker competencies for emergency response. *Journal of Public Health Management and Practice, 8(3):* 73– 81

Gebbie KM, **Merrill J**. 2001. Enumeration of the public health workforce: Developing a system. *Journal of Public Health Management and Practice*, *7(4):* 8– 16.

<u>Peer reviewed Conference Proceedings</u>

Russell, D, Onorato, N, Barron-Vaya, Y, **Merrill, JA**, Dowding, DW. 2016. The Impact of Nurses' Graph Literacy and Numeracy on Comprehension of Visualized Feedback Information. *Proceedings American Medical Informatics Association Annual Symposium, Washington, DC*

Dowding, DW, Onorato, N, **Merrill, JA**, Russell, D. 2016. Improving quality of care for heart failure patients in a home care setting: what feedback information do nurses need? *Proceedings American Medical Informatics Association Annual Symposium, Washington, DC*

Phillips, AB, **Merrill, JA.** 2014. Missing evidence for HIT transformation in a review of the literature. *Proceedings American Medical Informatics Association Annual Symposium, Washington, DC*

Merrill, JA, Keeling, JW, Phillips, AB, Kaushal, R, Senathirajah, Y. 2013. Impact on immunization registry reporting following adoption of an electronic health record. *Proceedings American Medical Informatics Association Annual Symposium, Washington, DC*

PUBLICATIONS continued

<u>Peer reviewed Conference Proceedings continued</u>
Arcia, A. Bales, M, Brown, W, Co, M, Gilmore, M, Lee, Y, Park, CS, Prey, C, Velez, M, Woollen, J, Yoon, S, Kukafka, R, **Merrill, JA**, Bakken, SH. 2013. Method for the development of data visualizations for community members with varying levels of health literacy. *Proceedings American Medical Informatics Association Annual Symposium, 2013 Nov 16; 2013:51– 60 PMC3900122*

Park CS, Byon, H, Beitsch, L, **Merrill, JA**. 2013. Change in health department organizational networks after an evidence– based performance improvement intervention. *Proceedings American Medical Informatics Association Annual Symposium, Washington, DC*

Merrill, JA, Keeling, JW, Phillips, AB, Kaushal, R, Senathirajah, Y. 2013. Impact on immunization registry reporting following adoption of an electronic health record. *Proceedings American Medical Informatics Association Annual Symposium, Washington, DC*

Phillips, AB, **Merrill, JA** 2012. Developing a punctuated equilibrium model for technology transformation in healthcare. *Proceedings American Medical Informatics Association Annual Symposium,* Chicago.

Keeling, JW, Allen, EE, Rowe, SA, Turner, AM, **Merrill, JA**, Liddy, ED, Turtle, HR. 2011. Development and evaluation of a prototype search engine to meet public health information needs. *Proceedings of the American Medical Informatics Association 2011 Annual Symposium*, Washington, DC.

Phillips, AB, Kaushal, R, **Merrill, JA**. 2011. Governance Structures in State Health Information Exchange. *Proceedings of the American Medical Informatics Association Annual Symposium*, Washington, DC.

Merrill, J, Phillips, A, Hripcsak, G, Kaushal, R. 2010. Evaluating health information exchange for public health. *Proceedings 13th World Congress Medical Health Informatics (MEDINFO)*, Capetown, SA

Merrill, J, Rockoff, M, Bakken, S, Carley, K. 2006. Organizational network analysis: A method to model information in public health work. *Proceedings of the American Medical Informatics Association Annual Symposium*, Washington, DC.

Merrill, J. Bakken, S. Caldwell, M., Carley, K, Rockoff, M. 2005. Applying organizational network analysis techniques to study information use in a public health agency. *Proceedings of the American Medical Informatics Association Annual Symposium*, Washington, DC

Merrill, J., Bakken, S., Patel, V. 2004. Reasoning for Public Health Emergency Risk Communication. *Proceedings of the 7th World Congress on Medical and Health Informatics (MEDINFO)*, SF, CA.

Merrill, J., Kukafka, R., Bakken, S., Ferat, R., Agopian, E., Messeri, P. 2003. Tailored Health Communication: Crafting the Patient Message for HIV TIPS. *Proceedings of the American Medical Informatics Association 2003 Annual Symposium*, Washington, DC.

<u>Reports</u>
Moodhe, N, Merrill, JA 2013 *STD Business Process Analysis, Westchester County Department of Health*. New York: Columbia University Public Health Training Center

Merrill, JA, Keeling, JW, Wilson, RW, Beitsch, L. 2013 *Organization Network Analysis as Evidence– based Decision Support for Performance Management in Florida Local Health Departments.* New York: Columbia University, Laboratory for Informatics, Complexity and Organizational Study.

Merrill, JA, Wilson, R, Phillips, AB, Keeling, JW, Senathirajah, Y. 2011. *HEAL– NY Phase 5 Evaluation Report: Public Health Use Case Implementation, prepared for NYS DOH, Office of Health Technology Transformation*. Health Information Technology Collaborative, Weill Cornell Medical College, NY

Merrill, J. 2010 *Network Analysis of the Public Health Services and Systems Research Community, prepared for RWJF*. New York: Biomedical Informatics, Columbia University

Merrill, J. 2010 *Workplace Evaluation of the Public Health Information Search developed by the Center for Natural Language Processing, Syracuse University*. New York: Columbia University Biomedical Informatics Consulting (CUBIC)

PUBLICATIONS continued

Reports continued

Merrill, J. 2009 *Laboratory and Workplace Evaluation of the Public Health Information Search developed by the Center for Natural Language Processing, Syracuse University*. New York: Department of Biomedical Informatics, Columbia University

Merrill, J. 2005. *Organizational Network Analysis Report: Dutchess County Department of Health*. New York: Center for Evidence– based Practice in the Underserved, Columbia University.

Merrill, J., Gebbie, K., Gebbie, E. 2003. *Evaluation of the NYC Department of Health Response to the World Trade Center Attack*. New York: Center for Health Policy, Columbia University.

Merrill, J, Qureshi, K, Matzner, FJ. 2001. *Israeli Defense Force Home Front Command 1st Annual Meeting of Hospital Preparedness for Emergency Scenarios, Tel Aviv, Israel, December 5– 7*. Report prepared for Surgeon General, US National Guard Air Force Reserve. New York: Center for Public Health Preparedness, Columbia University.

Health Services and Resources Administration. 2000. *The Public Health Workforce Enumeration 2000*. Washington, DC, DHHS. Available at: http://ask.hrsa.gov/detail_materials.cfm?ProdID=1057

Abstracts

Gershon, R, Zhi, Q, Nwankwo, E. Merrill, JA. (2017) Mass Fatality Management in the US. WADEM Congress on Disaster and Emergency Medicine 2017. Toronto, Canada

DW Dowding, N Onorato, Y Barrón, JA Merrill, RJ Rosati, D Russell. (2016) Developing dashboards for home care nurses at the point of care. *Home Healthcare and Hospice Information Technology (H3IT)* Conference Washington DC

Merrill, JA, Carley, KM (2016) Network Trails for Patient Risk Stratification Using Existing Clinical and Administrative Data *AcademyHealth Concordium*, Crystal City, VA

Dowding, D, Russell, D, Onorato, N, Merrill, J. (2016) Nurses' Graph Literacy and Its Impact on Comprehension of Visualized Feedback Information, *AcademyHealth Annual Research Meeting*: Boston, MA.

Travers, JL, Salas, M, Merrill, JA. (2016) Examining collaborative relationships among DNP and PhD students: A social network analysis. *Eastern Nursing Research Society*: Pittsburgh, PA

Lea, S, Winterbauer, N, Tucker, A, Merrill, JA. 2014 Network analysis of organizations providing mammography in a rural region. *American Public Health Association 142nd Annual Meeting*, San Diego, CA

Merrill, J. 2012. An analysis of health officers' advice networks based on NACCHO 2010 Profile data. *American Public Health Association 140th Annual Meeting*, San Francisco, CA

Gershon, R, Merrill J. 2012. Death Care Sector: Preparedness for Mass Fatalities. *American Public Health Association 140th Annual Meeting*, San Francisco, CA (poster)

Merrill, J. 2012. Early findings from an analysis of health officers' advice networks. *5th Annual Public Health Services and Systems Research Keeneland Conference*, Lexington KY

Merrill, J, Phillips, AB. Wilson, RV, Fredericks, KA, Deegan, M. and the HITEC investigators. 2011. New York State's role implementing health information exchange for public health reporting: A dynamic system evaluation model. *AcademyHealth Annual Research Meeting*, Seattle, WA

Merrill, J. 2011. Preliminary findings from an evaluation of HIE for PH reporting in New York State. *4th Annual Public Health Services and Systems Research Keeneland Conference*, Lexington KY

Merrill, J, Phillips, AB, Kern, L, Kaushal, R. 2010. Methods and Early Findings from an Evaluation of Health Information Exchange for Public Health in New York State. *American Public Health Association 138th Annual Meeting*, Denver, CO.

Merrill, J, Bales, M, Carley, K. 2010. A profile of the public health systems and services research community using network analysis. *American Public Health Association 138th Annual Meeting*, Denver, CO.

Merrill, J, Bales, M, Carley, K. 2010. Network Analysis of an Emerging Scientific Community of Practice: *Public Health Services and Systems Research. AcademyHealth Annual Meeting*, Boston, MA.

PUBLICATIONS continued

Abstracts continued

Merrill, J, Bales, M, Carley, K. 2010. Preliminary findings from a network analysis of an emerging field: Public health services and systems research. *3rd Annual Public Health Services and Systems Research Keeneland Conference*, Lexington, KY

Merrill, J, Carley, K. 2008. Findings from a Comparative Study of Local Public Health Organizational Networks. *American Public Health Association 136h Annual Meeting*, San Diego, CA

Merrill, J, Carley, K. 2008. Early findings from a comparative network analysis of local public health organizations. *AcademyHealth, Public Health Systems Research Interest Group Meeting*, Washington, DC

Keeling, JJ, Merrill, J. 2008. A re– examination of performance dimensions using complete data from the National Public Health Performance Standards Program V.1 instrument. *AcademyHealth, Public Health Systems Research Interest Group Meeting*, Washington, DC (poster)

Merrill, J, Gebbie, KM, Arroyo, JB, Murrman, M. 2007. A career in public health nursing: A promotional video for recruitment and retention of public health nurses. *American Public Health Association 135th Annual Meeting*, Washington, DC

Merrill, J, Wantroba, A, Gebbie, KM. 2007. Identification of a minimum data set to document public health work and evaluate organizational performance with network analysis. *American Public Health Association 135th Annual Meeting*, Washington, DC

Merrill, J, Wantroba, A, Gebbie, KM. 2007. Identifying a minimum data set of public health tasks, knowledge, and resources for network analysis. Public Health Systems Research Interest Group, *AcademyHealth Annual Research Meeting*, Orlando, FL

Merrill, J, Caldwell, M, Rockoff, M, Bakken, S, Carley, K. 2006. Findings from a study of local public health agency communication structure using organizational network analysis. *American Public Health Association 134th Annual Meeting*, Boston, MA.

Merrill, J, Carley, K, Bakken, S, Rockoff, M, Gebbie, K, Caldwell, M. 2006. A case study using organizational network analysis to model public health agency structure. *AcademyHealth Annual Research Meeting,* Seattle, WA.

Merrill, J., Bakken, S. 2005. Representation of Public Health Emergency Message Terms in UMLS. Symposium on Evaluation Methods for Informatics. *Eastern Nursing Research Society Annual Meeting*, NY, NY.

Gebbie, K., Merrill, J. 2004. Counting public health workers: a comparison of data sources. *AcademyHealth Annual Research Meeting*, San Diego, CA. (poster)

Gebbie, K., Merrill, J. 2003. Bioterrorism and Emergency Readiness Competencies for all Public Health Workers: Curriculum Implementation through Public Health Ready. *American Public Health Association 131st Annual Meeting*, San Francisco, CA.

Gebbie, K., Merrill , J. 2003. Individual Worker Competency in Local Public Health Emergency Preparedness and Bioterrorism Response. *American Public Health Association 131st Annual Meeting*, Philadelphia PA.

Gebbie, K., Merrill, J. 2002. Strengthening the Local Public Health Infrastructure for Preparedness. *National Association of City and County Health Officials Annual Meeting*, Washington DC.

Gebbie, K., Merrill, J. 2002. Qualitative Research and Application: Public Health Competencies in Emergency and Bioterrorism Response. *Academy for Health Services Research and Health Policy, First Public Health Systems Research Meeting: Transferring Research into Practice*. Washington, DC.

Gebbie, K., Merrill, J. 2001. Local Public Health Competency for Emergency Response American Public Health Association 129th Annual Meeting, Boston, MA.

Gebbie, K., Merrill, J. 2000. Enumeration of the Public Health Workforce, Prevention 2000 Conference, Atlanta, GA.

PRESENTATIONS AND LECTURES

Instructional Lectures
2009 – 2016 Spring BIST 89260; N9260; G9260 Building Interdisciplinary Research Models, Columbia
    University: "Assessing the effectiveness of the team using social network analysis"
2007 – 2016 Spring, G4002 Research Methods in Biomedical Informatics, Columbia University Department
    of Biomedical Informatics: "Thoughts on the Philosophy of Science"
2014 – 2015 Spring, P6031 Systems Thinking, Mailman School of Public Health: "System Dynamics
    Modeling"
2013 – 2014 Spring, Fall, MIMD N02P0 Biomedical Informatics, Columbia University College of
    Physicians and Surgeons: "Network Analysis as a Method for Health Services Researchers"
2010 – 2012 Spring, Summer, Fall, MIMD N02P0 Biomedical Informatics, Columbia University College of
    Physicians and Surgeons: "Improving the Health of the Public through Informatics"
2007 – 2009, 2012 – 13 Spring, N9412 Informatics for Practice, Columbia University School of Nursing,
    joint lecture to students in DNP and PhD Programs: "Public Health Information Systems"
2007 Spring, G6002 Topics in Informatics Research, Columbia University Department of Biomedical
    Informatics: "Presentation of Scientific Information" "Organizational Theory" and
    "Foundations of Social Network Analysis"
2006 June, Orientation, Entry– to– Practice Program, Columbia University School of Nursing:
    "Introduction to Principles of Emergency Preparedness"
2002 – 2005 Annual lecture Entry– to– Practice Program, Columbia University School of Nursing:
    "Emergency Response Competency for Nurses"
2001 March, Entry– to– Practice Program, Columbia University School of Nursing: "Public and
    Community Health Nursing" "Agents of Biological Terrorism"

Invited Presentations
2000 March. Assistant Secretary for Planning and Evaluation, DHHS, Washington, DC. "Early results of
    public health workforce Enumeration 2000".
2002 February and April, Red Cross of Greater NY: "Basic Emergency Preparedness for Public
    Health Nurses in the NYC Dept. of Health School Health Program"
2003, March. Missouri Nursing Summit, Jefferson, MO: "Emergency Response: the Columbia
    University Experience"
2005, August. Robert Wood Johnson Foundation, Princeton, NJ: "Organizational network analysis: A
    method to model information use in a public health agency"
2007, September. Robert Wood Johnson Foundation Annual Research Meeting, Princeton, NJ: "Network
    Analysis Applied in Public Health and Research Organizations"
2008, November. New York State Department of Health SPEED Rounds (webinar): "Organizational
    Network Analysis"
2008 New York State Department of Health, Statewide Common Ground Business Process Analysis
    Training Workshops for Local Health Department Staff: "Organizational Evaluation with Network
    Analysis"
2008, April. 1st Annual Keeneland Conference on Public Health Systems and Services Research,
    Lexington, Kentucky: "Preliminary findings from a comparative network analysis of local public
    health organizations"
2009 May. Preparedness and Emergency Response Research Center, School of Public Health, University of
    Pittsburgh: "Applications of Network Analysis in Organizations" Faculty seminar
2009, April. 2nd Annual Keeneland Conference on Public Health Systems and Services Research,
    Lexington, Kentucky: "Taxonomy, Ontology, and PHSSR: What's in it for us?"
2011 November. Center for Health Policy, Columbia University School of Nursing. HEAL– NY Phase 5
    evaluation: Policy implications for large scale public sector health IT implementations.
2011 October. Lunch and Learn: Translation of Practice– based Research into Public Health Practice, 139th
    Annual Meeting, American Public Health Association, Washington, DC.

PRESENTATIONS AND LECTURES continued

<u>Invited Presentations (continued)</u>

2011 October. Public Health Committee, Taconic Health Information Community (THINC). "Findings from HEAL– NY Phase 5 Evaluation Report: Public Health Use Case Implementation" (webinar)

2012 June. Institute on Systems Science in Health. Co– sponsored by the Office of Behavioral and Social Sciences Research, Office of the Director, National Institutes for Health and the Centers for Disease Control and Prevention. Washington University, St Louis, MO. "Application of Network Analysis in Organizational Evaluation"

2012 June. Evaluation Roundtable. Centers for Disease Control and Prevention. Atlanta, GA. "Application of Network Analysis in Organizational Evaluation"

2012 February. Biomedical Informatics Update 2012. Sponsored by Center for Advanced Information Management, Columbia University and Pfizer, New York City. "Evaluation of HIE implementation: New methods and results from HEAL– NY Phase 5"

2014 September. Informatics Intervention Research Collaborative (I2RC), Columbia University Medical Center. "Results from exploratory network analysis of care transitions among CHF patients"

2015 October. Non– linear approaches to evaluating organizational systems in healthcare. Centers for Disease Control and Prevention. Informatics Training Program, Informatics Evaluation Course, Division of Scientific Education and Professional Development

2016 November. Panelist "Enduring Challenges in Biomedical and Health Informatics", a featured presentation to celebrate the 40th anniversary of the Symposium on Computer Applications in Medical Care offered by the College of Medical Informatics at the Annual Symposium of the American Medical Informatics Association, Chicago.