

Affan Tanweer Shaikh, MPH, MBA(c)

t. +1 661 965 1573 | e. affan@intelligentepi.com | e. affan.shaikh@yale.edu | w. LinkedIn/in/affanshaikh

CURRENT APPOINTMENTS

Epidemiology and Health Systems Consultant, Public Health Surveillance Group, LLC

CEO & Founder; Intelligent Epi, Inc

Instructor, Emory University Rollins School of Public Health

Visiting Scientist, National Academy of Sciences

PROFESSIONAL SUMMARY

Affan Shaikh is a public health professional with interests in health and technology, disease prevention, and treatment. With over seven years of professional experience, Mr. Shaikh's work engages multilateral stakeholders including inter- and intra- governmental organizations, academic intuitions, NGOs, and communities in building local public health capacities, improving health outcomes and increasing access. He has worked on the ground across 22 different countries, and during the peak of the MERS-CoV outbreak in Saudi Arabia and following the Ebola epidemic in Sierra Leone. Mr. Shaikh is driven to strengthen health systems using evidence-based research and create valuable products, experiences, and processes at the intersection of health and innovative technologies.

Mr. Shaikh has had numerous teaching engagements with Emory University, the University of Michigan, and Columbia University, where he has taught courses on public health surveillance, oral communication, and scientific writing. His book, "Transforming Public Health Surveillance," explores how the world can be better prepared for the next pandemic through disruptive innovation and public health systems strengthening. He has also published in "Biosecurity: Understanding, Assessing, and Preventing the Threat," in addition to several high impact peer-reviewed publications. He serves as a Visiting Scientist for the National Academy of Sciences and as an International Board Member to the Saudi Arabia Centres for Disease Control and Prevention.

EDUCATION

Master of Business Administration (MBA) Yale University School of Management Strategic Planning Entrepreneurship and Innovation Digital Health	2022
Credential of Readiness (CRe) Certificate Harvard Business School Online Business Analytics Economics for Managers Financial Accounting	2020
760 Graduate Management Admissions Test, 99th Percentile 49 Quantitative 47 Verbal 8 Integrated Reasoning 5.5 Writing	2016
Master of Public Health (MPH), International Health Boston University Thesis: Caring for the Umbilical Cord: Traditions and Cultural Practices in Southern Zambia Merit Scholar Santandar Scholarship Recipient for Kenya Research	2012
Bachelor of Arts (BA), Economics; Honors University of California, Los Angeles Health Economics Coursework Collegiate Men's Rower Merit Scholar	2009
Associate of Science (AS), Physical Science; Honors Antelope Valley College Graduated high school and started college full-time at 15 UFCW Scholar	2007

CONTINUING EDUCATION AND TRAINING

HarvardX– Health Effects of Climate Change (2019) | SUNY– Global Health Diplomacy (2019) | Emory– Health in Complex Humanitarian Emergencies (2018) | MITx– u.Lab: Leading from the Emerging Future (2018) | MITx– Becoming an Entrepreneur (2017) | HarvardX– Innovating Health Care (2015) | HarvardX– Entrepreneurs & Health in Emerging Countries (2015) | KSA Ministry of Health– Innovation & Leadership Track (2014) | Tech4Change– Mobile Health (2013)

PROFESSIONAL EXPERIENCES

INTELLIGENT EPI, INC

Founder, Executive Officer

April 2016 – Present

Provided consulting expertise around digital health and instructional design. Developed and helped win \$7.5M post-Ebola leadership and management training project in Sierra Leone. Calculated ROI and budget impact analysis for Jordanian Red Crescent project portfolio. Developed use case and product strategy for wearable disease surveillance technology. Explored public health surveillance uses of block chain and machine learning. Supported US CDC ASTDR in setting research agenda around the manmade chemical pollutant, PFAS. Led design and development of the African CDC Institute for Workforce Development, guiding its strategic mission to end brain drain and launching the inaugural course. Leading AMR, AMU, and AMC mapping efforts to capture data on antimicrobial resistance patterns and trends in Papa New Guinea, Timor-Leste, Vietnam, and Pakistan as a part of the CAPTURA Consortium. Developed a business use case for a telemedicine chronic liver disease intervention in Saudi Arabia.

NATIONAL ACADEMY OF SCIENCES

Visiting Scientist

September 2016 – Present

Supported efforts to build bi-lateral bridges through STEM fields. Served as digital health expert. Presented on health innovation, block chain, and machine learning. Facilitated discussion of digital health applications. Provided subject matter expertise for the development of two chapters in a clinical laboratory handbook aimed at improving Pakistan laboratories. Represented the U.S. and the National Academy of Sciences in meetings with senior US and Pakistan officials. Mentored young Pakistani scientists.

PUBLIC HEALTH PRACTICE, LLC

Senior Technical Consultant

October 2014 – Present

Led project teaming, proposal writing, and technical work with multiple academic, government, and private partners and stakeholders. Expanded project portfolio to South Asia. Consult on project basis. Managed needs assessment, workflow optimization, and strategic roadmap execution in Swaziland. Developed logic models. Conducted new SOP trainings. Brokered neurosurgery medical equipment sale. Engaged internal and external stakeholders. Developed \$10M budget impact analysis for health education start-up strategic plan. Developed WHO Emergency Operations Centre Framework based on relevant reviewed literature.

Research and Epidemiology Specialist, Ministry of Health, Saudi Arabia

January 2014 – October 2014

Seconded to the Ministry of Health of Saudi Arabia during the peak of the MERS-CoV outbreak. Managed eight project teams and aligned \$150M in grant work in the newly formed science and technology unit. Reported directly to the Deputy Ministry of Health. Built KPI dashboards with s-curves that tracked project progress and efficiency. Implemented lean and six-sigma improvement strategies. Negotiated high-level technology transfers agreements. Supported workflow integration. Assessed EHR application for hospital contact tracing of disease cases. Evaluated Ministry quality of care programs. Liaised with the British Medical Journal to launch region specific journals. Supported the development of a Saudi Cancer Registry. Facilitated a Health Policy and System Research Agenda exercise with the Minister of Health. Worked with McKinsey on overhauling the Ministry of Health human resource strategy. Helped secure operational project grants from the Saudi Agency for Healthcare Research and Quality. Liaised with Emory University's King Abdallah Fellowship Program to mentor and support graduate student thesis work.

Epidemiologist and Informatics Specialist

May 2012 – December 2013

Assisted cross-functional teams in designing frameworks and workflow processes. Developed marketing and HR policies. Spearheaded internal strategic mapping and website development. Created strategies for unstructured

data use for public health surveillance. Helped cross-functional team in development of disease surveillance cost software. Evaluated and streamlined core IT disease surveillance systems in five African countries. Developed implementation roadmap for health IT surveillance of NTDs.

CENTER FOR GLOBAL HEALTH & DEVELOPMENT

Research Associate

July 2011 – June 2012

Supported project research team by reviewing literature and analyzing data. Spearheaded study protocol development of and search algorithms for seven country research projects. Researched the global epidemiology and burden of disease of under-five diarrheal diseases. Identified QOL evidence. Developed Excel VBA analytical tool and dashboard.

Field Researcher

May 2011 – June 2011

Collaborated with Maasai community leaders to identify priority health concerns regarding water and sanitation in rural Kenya. Researched water access and land development issues; developed and implemented a water, sanitation, and health assessment study in the locality. Compiled and analyzed quantitative data with CSPro, EpiInfo and SAS. Presented findings at a community town hall meeting with over 200 in attendance.

AGHA KHAN UNIVERSITY HOSPITAL

Research Associate

June 2011 – August 2011

Supported clinic physicians, and community health workers in community outreach efforts. Visited the homes of new mothers collect data and teach oral rehydration therapy techniques. Supported various research efforts.

UCLA SEMEL INSTITUTE FOR NEUROSCIENCE AND HUMAN BEHAVIOR

Research Analyst

November 2008 – August 2010

Explored the relationships between structure and function in the human brain, particularly as related to higher level cognition, such as mental imagery in the Mark Cohen lab. Engaged in the active exploration of modern data analysis approaches, such as machine learning, with special attention to methods that reveal systems-level neural organization in the fields of neuroscience and human behavior. Studied manganese (Mn) included Parkinson's disease using machine learning processes. Explored the use of fMRI scans to study false memories introduced via hypnosis in human subjects.

ACADEMIC APPOINTMENTS

COLUMBIA UNIVERSITY

Lecturer at the Epidemiology and Population Health Summer Institute

July 2015 – Present

Course taught: Transforming Public Health Surveillance

EMORY UNIVERSITY

Instructor at the Rollins School of Public Health

August 2015 – Present

Courses designed: Case Study Design and Development; Oral Communications for Health Professionals; Scientific Writing; Introduction to Public Health Surveillance; Numerous Public Health Grand Round Seminars; Research Skills Development Course

UNIVERSITY OF MICHIGAN

Summer Lecturer at the Graduate Summer Session in Epidemiology

July 2014 – August 2015

Course taught: Transforming Public Health Surveillance; Oral Communication; Scientific Writing

BOSTON UNIVERSITY

Teaching Assistant at the School of Public Health

January – May 2012

Course taught: Eradication of Infectious Diseases

GOVERNING BOARD MEMBER

SAUDI ARABIA CENTERS FOR DISEASE CONTROL

International Advisory Board Member

November 2018 – December 2019

Supported Saudi Arabia Centers for Disease Control Director on special international advisory board around three key public health areas: anti-microbial resistance, obesity, and cardiovascular health. Led development of the Kingdom's revised Hepatitis C guidelines and strategic policy. Supported decision-making around the strategic placement and organization of the National Reference Laboratory.

ANTELOPE VALLEY WORLD HERITAGE FESTIVAL

Board Member

December 2012 – July 2013

Served as board member for the Antelope Valley World Heritage Festival. Fundraised with local community members and pitched sponsorship opportunities to small businesses. Coordinated with vendors.

CALIFORNIA DEMOCRATIC PARTY

District Delegate

December 2012 – December 2014

Elected to represent CA District 36 as a party official at state conventions and regional meetings. Worked with other politically engaged community members on various policy issues, public advocacy, and youth engagement. Endorsed candidates for various public offices. Supported a number of initiatives aimed at increasing educational funding, promoting scientific research, and increasing access to healthcare. Attended workshops on voter registration, voted and passed resolutions, voted on party and caucus officers and networked with party activists and elected officials

CENTER FOR GLOBAL HEALTH & DEVELOPMENT

Mobile Health Strategy Group Advisory Board Member

December 2011 – June 2012

Served on mHealth Strategy Group Advisory Board to digitize research data collection methods. Discussed innovative ways to address obstacles in data collection and program implementation using mobile health solutions such as smart phone data collection, and prescription and appointment health alerts. Supported digitization efforts on three research projects. Helped incorporate social media into academic pedagogy.

AMERICAN CANCER SOCIETY

Youth Board Member

December 2003 – June 2005

Facilitated monthly meetings to discuss global and local cancer issues. Coordinated local campaigns Co-founded local club and organized Relay for Live event with record attendance.

PROJECTS

AFRICA CDC RISK COMMUNICATOIN FOR COVID-19

Intelligent Epi, Inc

Co-principal Investigator

May 2020 – July 2020

Supported key African stakeholders communicate COVID-19 issues accurately, effectively, and rapidly; facilitated 9 training webinars for journalists, faith-based organizations, civil society organizations, and youth groups that reached 975 total registrants and 433 cumulative attendance; supported 18 global experts to explore best practices around risk communication and COVID-19; Gained 316K Facebook impressions and 26.3K views; conducted robust monitoring and evaluation program that provided key insights for decision-making; developed evaluative surveys across 7 key databases and analyzed for impact of the service; conducted key informant interviews for further insights; developed final report summarizing success of the project.

AFRICA CDC COVID-19 CLINICAL COMMUNITY OF PRACTICE

Intelligent Epi, Inc

Co-principal Investigator

March 2020 – March 2021

Led the development of the clinical community of practice for COVID-19 to support knowledge dissemination amidst the pandemic; devised three prong approach that incorporated synchronous trainings, asynchronous knowledge database, and ongoing social media engagement; Conducted rigorous monitoring and evaluation program across 7 key databases; designed survey tools and analysis dashboards; Provided COVID-19 insights to 10,840 clinicians over 44 webinars including 37 French-based trainings across 52 countries in Africa and 108 countries across the globe; Recruited 83 expert panelists including 35 female experts; Developed 61 newsletters and summary reports totaling 227,485 emails to listserv of 5,958; facilitated WhatsApp and Telegram groups with 1,360 participants; hosted knowledge management platform with curated COVID-19 insights for 1,025

participants across Africa; leveraged metric-driven dashboard for decision-making to achieve monthly 26% targeted growth rate.

CAPTURING DATA ON AMR PATTERNS AND TRENDS IN USE IN ASIA

Public Health Surveillance Group, LLC

Health Specialist and Epidemiologist

July 2019 – Present

Working with local governments of Papua New Guinea, Timor-Leste, Vietnam, and Pakistan to identify and subsequently assess the quality of available data on AMR and AMU. Relevant data will be collated and analyzed to provide meta-data and give regional and inter-regional context. The project will also help identify gaps in data and areas for quality improvement that can be addressed in future initiatives to strengthen surveillance capacity. The information resource generated by the project will improve awareness, advocacy, policy, and interventions needed to combat AMR and antimicrobial misuse.

AFRICA CDC TRAINING AND DEVELOPMENT OF PUBLIC HEALTH WORKFORCE

Intelligent Epi, Inc

Lead Instructional Designer

January 2019 – November 2019

Supporting the establishment of the Africa CDC Institute for Workforce Development, developed content for training courses focused on public health surveillance in novel digital based format catering to a initial cohort of 100 African health professionals; fostered engagement levels great than 85% throughout the first course; identified key strategic needs with the Africa CDC and conducted a SWOT analysis for the Institute of Workforce Development; assessed current and future training capacity of Africa CDC and National Public Health Institutes; Led instructional design team in developing standardization and efficient roll-out of future training courses; developed marketing strategy for the Institute; Supported project management activities and introduced novel management methods.

RETURN ON INVESTMENT MODELLING OF COMMUNITY ASTHMA PROGRAMS

Intelligent Epi, Inc

Data Analyst

December 2018 – February 2019

Engaged local community public health professionals at the Harris County Public Health Department (Greater Houston, Texas area) in developing a adaptable return on investment model for their One Breath at a Time school based asthma intervention program. Drafted project plan conducted in-depth literature review, and developed analysis plan. Collected relevant data, and using basic linear regression, developed a return on social investment model for the stakeholder to populate as the program matures. Presented model, data dictionary, and guidebook to Department director.

DEVELOP COMPREHENSIVE CDC NCEH/ATSDR PFAS RESEARCH AGENDA

Intelligent Epi, Inc

Subject Matter Expert

November 2018 – August 2019

Using the ATSDR Toxicological Profile for Perfluoroalkyls as a starting place, assessed research needs and knowledge gaps related to PFAS with an emphasis on exposure, health effects, toxicological mechanism of action, risk assessment, and mitigation strategies. Identified overall research needs and priorities, including an assessment of how these priorities align with the NCEH/ATSDR mission and congressional mandate. Identified opportunities for collaboration with federal partners and establish NCEH/ATSDR's role in the larger federal PFAS landscape. Developed a 3-5-year research plan, including an approximate budget for proposed activities.

INNOVATIONS FOR PUBLIC HEALTH LABORATORIES

National Academy of Sciences

Visiting Scientist

November 2017 – Present

Facilitated development of laboratory best practices manual. Attended workshop in Bangkok, Thailand and provided digital health expertise on the public health use of block chain for laboratory supply management. Supported development of three chapters. Discussed implementation strategies for the manual in Doha, Qatar.

SAUDI HEALTH TRAINING CENTER

Intelligent Epi, Inc

Subject Matter Expert

May 2016 – September 2017

Conducted market segmentation and competitive landscape analysis for a public health education startup aiming to improve the availability of educational and professional advancement opportunities in the Middle East.

Supported \$5M development of a Saudi training institution. Curated public health offerings including term-length courses, short-term workshops, and longitudinal programs aimed at supporting local health workforce. Developed over 100+ hours of specialized and interactive educational content to train medical professionals to conduct outbreak investigation during the annual Hajj pilgrimage.

MANAGEMENT AND LEADERSHIP TRAINING IN SIERRA LEONE

Emory University

Subject Matter Expert

April 2016 – March 2017

Assessed the training needs for district medical officers and community health workers around health management and leadership, and shortfalls following the 2015 Ebola outbreak. Developed curriculum addressing those needs, and prepare a strategy for accomplishing. Conducted in-depth literature reviews of leadership and management training best practices. Supervised cross-functional personnel, coordinated between in-house and client teams, and kept stakeholders informed of progress.

HEPATITIS A FOODBORNE OUTBREAK LEGAL CASE

Public Health Practice, LLC

Senior Research Scientist

March 2015 – April 2017

Served as an expert consultant in a Hepatitis A outbreak case. Used collected patient, regulatory, and unstructured consumer data to conduct an outbreak investigation, and trace back study of patients and product supply chain. Developed expert reports and presentations for court proceedings. Helped prosecution win \$8M in damages.

PUBLIC HEALTH SURVEILLANCE STRENGTHENING IN SWAZILAND

Public Health Practice, LLC

Project Manager, Technical Lead

August 2015 – March 2016

Partnered with the Ministry of Health (MOH) to build Swaziland's capacity in epidemiology and research and strengthen the monitoring and use of data. Enabled the effective use of health information and disease surveillance to inform policy and programming for a coordinated national health agenda. Provided technical support to the Swaziland Epidemiology and Surveillance Unit for the implementation of integrated disease surveillance. Met with key stakeholders and evaluated the existing disease surveillance system and Point of Entry preparedness. Provided training on developing and implementing aspects of the strategic plan, maintaining compliance with global regulations, and research ethics, and health research strategies.

PUBLIC HEALTH CORRESPONDENT

American Muslim Health Professionals

Staff Writer

July 2015 – July 2016

Published a Huffington Post article on the Islamic contributions to public health. Commented on public health, international disease control, and biotechnology issues for the organization. Provided editorial services on articles and publications.

WHO EMERGENCY OPERATIONS CENTRE (EOC) FRAMEWORK

Public Health Practice, LLC

Subject Matter Expert

September 2013 – November 2013

Performed a systematic review and synthesis of all relevant evidence addressing EOC operations related to information and communication technologies, procedures and plans, operations, and training and exercise. Assessed the quality of evidence using GRADE methods. Informed development of series guidance for building, maintaining and using EOC for public health emergency response. Work published by WHO as Framework for a Public Health Emergency Operations Centre.

PUBLISHING ELSEVIER PUBLIC HEALTH BOOK

Public Health Practice, LLC

Editor, Author, Project Manager

April 2012 – April 2016

Coordinated the publication of a new public health surveillance book titled "Transforming Public Health Surveillance" with Elsevier. Served as both an editor and first author. Recruited high level contributors. Spearheaded conception and workflow development, planned numerous meetings, delivered multiple presentations, and successfully synthesized inputs into book. Granted a lecturer position and taught book content at Columbia University, the University of Michigan, and Emory University.

DEVELOPING LABORATORY BIOSAFETY PROTOCOLS

Public Health Practice, LLC

Project Manager, Subject Matter Expert

August 2012 – December 2013

Conducted an intensive literature review of laboratory biosafety practices. Developed an assessment tool to help laboratories determine biosafety gaps and impediments. Pitched the tool to subject matter experts, and pilot tested it at two BSL3 laboratories. Presented research work in two peer-reviewed publications, two scientific posters, a conference oral presentation, and book publication.

ASSESSING GLOBAL PUBLIC HEALTH SURVEILLANCE CAPACITY

Public Health Practice, LLC

Research Analyst

June 2012 – February 2014

Worked with the World Health Organization and several other public health organizations to develop a toolset for countries to determine their existing disease surveillance capabilities and gaps in fulfilling the International Health Regulations. Developed logic models and process maps for a variety of surveillance models. Coordinated with cross-functional team of subject matter experts and programmers to determine user requirements for disease surveillance costing toolset. Work culminated in an online tool Member States can use to assess gaps and impediments. Toolset presented at the World Health Assembly in Geneva.

AFRICAN ONE HEALTH ESURVEILLANCE INITIATIVE

Public Health Practice, LLC

Informatics Specialist

May 2012 – February 2014

Evaluated a One Health (i.e., health system that considers humans and animal risk factors) approach to disease surveillance that uses the latest in sustainable public health informatics in Burkina Faso, Cameroon, Kenya, Nigeria, and Uganda. Supported strategic planning and implementation of One Health and public health informatics approach in existing disease surveillance systems for NTDs. Finalized project deliverables despite significant external challenges.

SOCIAL MEDIA AND TECHNOLOGY FOR PUBLIC HEALTH

Boston University Center for Global Health & Development

Project Coordinator

January 2012 – June 2012

Implemented a study assessing the utility of social media in an Eradication of Infectious Diseases course. Surveyed class at the start and end of the term to assess their usage and perspective of social media. Led in-class discussions on emerging or reemerging infectious disease related tweets. Analyzed and presented tweets and survey results at the end of the term to participants and to the teachers governing board at Boston University.

TRADITIONAL UMBILICAL CORD CARE IN ZAMBIA

Boston University Center for Global Health & Development

Research Associate

September 2011 – July 2013

Addressed newborn health in regards to umbilical cord care and traditional practices in Zambia. Reviewed existing literature regarding recommended cord care strategies as well as traditional cord practices across the globe. Analyzed qualitative data collected using NVivo with special consideration to specific local applications (i.e., dirt, oils, plant extracts, dung, etc.) applied to the umbilical cord to prevent the spread of illness such as bacterial infections and HIV. Published results in the prestigious scientific open source journal, PLOS.

THE GLOBAL ACTION PLAN FOR CHILDHOOD DIARRHEA AND PNEUMONIA

Boston University Center for Global Health & Development

Subject Matter Expert, Research Associate

July 2011 – June 2012

Helped develop and oversee a comprehensive literature review of the burden of diarrheal disease as it relates to under-five mortality in Bangladesh, India, Kenya, Nigeria, Pakistan, Vietnam, and Zambia. Collaborated with Gates Foundation funders and in-country teams to meet with key ministry of health members, relevant NGO directors, and other significant decision makers. Developed tools to collect, organize, and analyze data and evaluate current public health interventions. Presented data to senior staff and stakeholders. Developed individual country reports and an overarching Lancet series aimed at providing a roadmap to decreasing the preventable burden of diarrheal disease.

fMRI ANALYSIS OF HYPNOSIS INDUCED FALSE MEMORIES

Mark Cohen Lab, UCLA Semel Institute

Research Associate

November 2008 – August 2010

Used fMRI scans to study false memories introduced via hypnosis in human subjects. Helped create the study protocol and obtain IRB approval. Conducted in-depth literature review of current scientific understanding of hypnosis. Recruited study participants through hypnosis workshops; conducted training and experimental simulation trials in fMRI machine.

MODELING MANGANESE INDUCED PARKINSON'S DISEASE

Mark Cohen Lab, UCLA Semel Institute

Research Associate

September 2008 – August 2010

Studied manganese (Mn) included Parkinson's disease. Analyzed data on the flux Mn into the brain creating a pharmacokinetic model of Mn flux in humans using data from rhesus monkeys. Attended artificial intelligence seminars. Applied machine learning techniques to understand flow of molecules into the blood-brain barrier.

SELECTED PEER REVIEWED PUBLICATIONS AND PAPERS

1. Scott JN McNabb,* Mabel Magowe, Nadine Shaw, Amanda Berrian, Michael Wilkes, **Affan Shaikh**, Onesmus Gachuno, Lucy Perrone, Brittany Murray, Eva Berman, Bhakti Hansoti. "Delivering Modern Global Health Learning Requires New Obligations and Approaches." *Annals of Global Health*. 2020.
2. Sylvester, J., Shongwe, S., Lokotfwako, V., Nhlabatsi, N., Dlamini, X., Trong, T., Sahabo, R., **Shaikh, A.**, Ryland, P., McNabb, S., Nuwagaba-Biribonwoha, H. **Public Health Surveillance Strengthening in the Kingdom of Swaziland**. *Online Journal of Public Health Informatics*, [S.l.], v. 9, n. 1, May 2017. ISSN 1947-2579. doi:10.5210/ojphi.v9i1.7659.
3. Nuwagaba-Biribonwoha, H., Nhlabatsi, N., MacWright, W., Lokotfwako, V., Trong, T. A., Ryland, P., **Shaikh, A.**, Sylvester, J., McNabb, S. J. (2017). **Baseline Assessment of Public Health Surveillance in the Kingdom of Swaziland**. *Online Journal of Public Health Informatics*, 9(1), e173. <http://doi.org/10.5210/ojphi.v9i1.7771>
4. **Shaikh, A.**, McNabb SJ. **Smart Governance of Public Health Surveillance**. In: McNabb SJ, Conde, J. M., Ferland, L., MacWright, W., Memish, Z., Okutani, S., Park, M., Ryland, P., **Shaikh, A.**, & Singh, V., ed. *Transforming Public Health Surveillance*. 1st ed ed. Amman. Jordan: Elsevier; 2016.
5. McNabb SJ, Chapman, L., Ryland, P., MacWright, W., Ward, J., Khogali, H., **Shaikh, A.** **The Next Generation of Public Health Surveillance**. In: McNabb SJ, Conde, J. M., Ferland, L., MacWright, W., Memish, Z., Okutani, S., Park, M., Ryland, P., **Shaikh, A.**, & Singh, V., ed. *Transforming Public Health Surveillance*. 1st ed ed. Amman. Jordan: Elsevier; 2016: 1-10.
6. **Shaikh AT**, Ferland L, Hood-Cree R, Shaffer L, McNabb SJN. **Disruptive Innovation Can Prevent the Next Pandemic**. *Frontiers in Public Health*. 2015;3:215. doi:10.3389/fpubh.2015.00215.
7. Zumla A, Perlman S, McNabb SJ, **Shaikh, A.**, Heymann DL, McCloskey B, Hui DS. **Middle East respiratory syndrome in the shadow of Ebola**. *The Lancet Respiratory medicine* 2015, 3(2):100-10.
8. McNabb, S., **Shaikh, A.**, Nuzzo, J., Zumla, A. and Heymann, D. **Triumphs, Trials, and Tribulations of the Global Response to MERS Coronavirus**. *The Lancet. Respiratory Medicine* 2, no. 6 (June 2014): 436–37. doi:10.1016/S2213-2600(14)70102-X.
9. Herlihy, J., **Shaikh, A.**, Semrau, K., Mazimba, A., Gagne, N., Grogan, C., Mpamba, C., Sooli, B., Simamvwa, G., Mabeta, C., Shankoti, P., Messersmith, L., Hamer, D. **Caring for the Umbilical Cord: Traditions and Cultural Practices in Southern Zambia**. in *Plos One*. November 07, 2013. DOI: 10.1371/journal.pone.0079191. URL: <http://dx.plos.org/10.1371/journal.pone.0079191>
10. Haile, B., Park, M., **Shaikh, A.**, Ferland, L., Meeks, H., McNabb, S. **New Strategy to Monitor and Evaluate Laboratory Biosafety Programs**. in *Lab Matters*. Association of Public Health Laboratories. Spring 2013, Issue 2.
11. Erondy, N., Haile, B., Ferland, L., Park, M., **Shaikh, A.**, Meeks, H., McNabb, S. (2013). **Identification and Assessment of Public Health Surveillance Gaps under the IHR (2005)**. *Online Journal of Public Health Informatics [Online]*, 5(1). doi:10.5210/ojphi.v5i1.4542

12. Meeks, H., Haile, B., Erondy, N., Ferland, L., Park, M., **Shaikh, A.**, McNabb, S. **Monitoring and Evaluating Laboratory Biosafety Programs** in *Biosecurity: Understanding, Assessing, and Preventing the Threat*. John Wiley & Sons, Inc. November 2012.
13. Gill, C., Young, M., Schroder, K., Carvajal-Velez, L., McNabb, M., Aboubaker S., Qazi, S., and Bhutta, Z. **Bottlenecks, Barriers, and Solutions: Results from Multicountry Consultations Focused on Reduction of Childhood Pneumonia and Diarrhoea Deaths**. *Lancet* 381, no. 9876 (April 27, 2013): 1487–98. doi:10.1016/S0140-6736(13)60314-1. (Acknowledgements)

Manuscripts in Development

1. **Open Public Health: Leveraging Open Data to Prevent Epidemics**
2. **Global Health Security in the 21st Century**. *Elsevier Book*

ABSTRACTS AND SELECTED ORAL PRESENTATIONS

1. Kibler, J., McNabb, S., Lavery, J., Memish, Z., **Shaikh, A.**, Erondy, N. **Transforming Public Health Surveillance Through Open Public Health Information**. 2018. ISDS 2018 Conference Abstracts in the Online Journal of Public Health Informatics. Vol 10, No 1. Available at: <http://dx.doi.org/10.5210/ojphi.v10i1.8650>
2. **Shaikh, A. Disruptive Opportunities to Improve Public Health Surveillance**. 27 September 2016. Joint Pakistan-U.S. Workshop on Strengthening and Sustaining a Network of Public and Animal Health Clinical Laboratories in Pakistan. National Academy of Sciences. Islamabad, Pakistan.
3. AlJawini, R., **Shaikh, A.**, McNabb, S., Zamakhshary, M. **Developing a Health Policy and System Research Agenda**. 21 January 2014. Presentation to the Health Minister. Ministry of Health, Riyadh, Kingdom of Saudi Arabia.
4. Haile, B., Wade, M., Bievins, P., Cannons, A., France, R., Ferland, L., **Shaikh, A.**, Park, M., Meeks, H., McNabb, S. **Examining the Human Element in Lab Biosafety**. December 2013. International Society for Disease Surveillance Conference; New Orleans, Louisiana. <http://ojphi.org/ojs/index.php/ojphi/article/view/5103/4015>
5. **Shaikh, A.**, McNabb, S., Qanta, A., Memish, Z. **Global Public Health Surveillance, Governance, and Viral Sovereignty**. August 14 2013. International Society for Disease Surveillance Webinar: <https://vimeo.com/72373448>
6. **Shaikh, A.**, Park, M., Ferland, L., McNabb, S. **Assessing Surveillance Methodology, Performance, and Design: Indicators for Public Health Surveillance**. June 2013. Council of State and Territorial Epidemiologists Conference; Pasadena, California.
7. Meeks, H., Haile, B., Erondy, N., Ferland, L., Park, M., **Shaikh, A.**, McNabb, S. **New Strategy to Monitor and Evaluate Laboratory Biosafety Programs**. December 2012. International Society for Disease Surveillance Conference; San Diego, California. Winner Best Poster Award.
8. Xing, J., Park, M., **Shaikh, A.**, Haile, B., Erondy, N., Ferland, L., McNabb, S. **Assessment Tools to Meet the Core Capacities of the Surveillance Goal of the International Health Regulations (2005)**. December 2012. International Society for Disease Surveillance Conference.
9. Wolff, J., **Shaikh, A.**, McNabb, M. **Harnessing the Power of Twitter for Faculty and Student Development**. July 2012. John McCahan Educational Day. Boston University.
10. **Shaikh, A.**, McNabb, M. **What is Twitter? Can we use it for Public Health?** June 2012. Eradication of Infectious Diseases Seminar. Boston University.
11. **Shaikh, A.**, McNabb, M., Gill, S. **Diarrhea Global Action Plan: Innovative Analytics**. May 2012. DGAP Stakeholder Meeting at Boston University.

12. **Shaikh, A.**, Busulwa, I. **Excel Magic! Making Data Useful**. May 2012. Boston University School of Public Health; Health Policy and Management Workshop.
13. **Shaikh, A. Communities of Practice: Building Professional Networks in Public Health**. May 2012. Internal strategic development meeting for Public Health Practice, LLC.
14. Cisse, C., **Shaikh, A.**, Dziuma, A., Ascencio, C., Marchena, D., Oyesiku, L., Wolff, J. **Safe Births. Health Families. Reducing Maternal Mortality in Koinadugu District, Sierra Leone**. December 2011. EmOSSA grant proposal presentation to Management Sciences for Health (MSH).
15. **Shaikh, A.**, Brophy, M., Lee, K., Soderholm, K., Semrau, K. **Sustaining Life and Land: A Cross-sectional Pilot Mixed-Methods Study Assessing the Journey to Collect Water in Rural Kenya**. June 2011. Community town hall in Kimana Group Ranch, Kenya.

MEDIA PUBLICATIONS AND MENTIONS

1. Shaikh, A. United Nations Interview with Turkish Journal on Getting More Youth Involved in Public Health. 10 January, 2020.
2. **Shaikh, A.** Contributions of Islamic Theology to Modern Day Public Health. Huffington Post. 3 May 2016. Link: https://www.huffingtonpost.com/american-muslim-health-professionals-/contributions-of-islamic-theology-to-public-health_b_9773116.html
3. Sabiha Khan. CA Muslims Participate in the California Democratic Party Convention. Pakistan Link 25 March 2014. Link: <http://pakistanlink.org/Community/2013/May13/10/03.HTM>

HONORS AND AWARDS

ISDS Best Scientific Poster Award	December 2012
Santandar Scholarship	July 2011
Boston University SPH Merit Scholarship	August 2010
Scholarship Award, University of California	May 2007
UFCW 770 Academic Scholars Award	August 2007

PROFESSIONAL MEMBERSHIPS

American Public Health Association (APHA)
 International Society for Disease Surveillance (ISDS)
 Council of State and Territorial Epidemiologists (CSTE)

SKILLS

Hard Skills

Project Management: MS Project, Workflow Mapping, Process Improvement, Risk Management, Lean and Six Sigma Management; Communication: Value Proposition, Negotiating, Survey Design, Meeting Facilitation; Data Analysis: Excel, SPSS, SAS, NVivo, SQL, Python, Tableau; Tableau, MATLAB Research: Literature Reviews, Study Interpretation, Concept Notes, White Papers, EndNote

Interpersonal Skills

Problem Solver, Analytical, Detail Oriented, Positive, Ambitious, Energetic, Team Player, Friendly, Creative, Quick Learner, Self-starter, Effective project manager, Negotiator, Facilitator, Trainer

Languages Urdu (intermediate)