

# Meeyoung Park

Atlanta, GA 30030

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## PROFILE

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**Seasoned public health informatics specialist** and **budding software engineer** working in the Division of Emergency Operations at CDC, with domestic and international experience in electronic disease surveillance, information systems design and development, public health and medical information standards, monitoring and evaluation, program planning and management, stakeholder engagement, training, and strategic planning for national health systems.

Has **specialized skills and knowledge** in MongoDB, Express, React, NodeJS (MERN) full stack web and mobile application development (front-end web design, back-end server and database development, and application program interface [API] development for information exchange); custom application program interface (API) development for information exchange; data analytics and data visualization; geographical information systems (GIS); MS Power BI; grant/proposal writing; curriculum development and teaching; and health informatics standards for interoperability, including HL7, SNOMED, LOINC, ICD-9, ICD-10, and PHIN VADS.

**Research interests** include innovative use of mobile apps, remote sensing, and the Internet of Things (IoT) to support participatory and predictive surveillance for early warning detection systems of public health emergency events; application of machine learning and artificial intelligence for aberration, trend, and risk factor detection; and dynamic visualization of near-real time emergency management data, merging novel and non-traditional information sources.

## EXPERIENCE

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- Tracked, coordinated, and deployed system enhancements and bug fixes for *Epi-X* and Red Sky, two flagship information systems for public health situational awareness in the emergency operations center at CDC
- Developed dynamic, proof-of-concept dashboard for situational awareness and advanced data visualization of Ebola data using MS PowerBI, now adopted by the Ebola team as a tool to assess and quality Ebola preparedness indicators for at-risk countries
- Recognized for rapid development and implementation of technical solutions, systems and processes, and for an instrumental role in CDC's response to DRC Ebola, multiple hurricanes, and public health events of heightened surveillance
- Provided research and technical support to translate CDC's Excellence in Response Operations Data Management workgroup recommendations into EOC preparedness requirements capabilities documents adopted by CDC in defining and aligning agency enterprise requirements and priorities to improve access and sharing of data with partners
- Drafted and awarded proposal for award of intramural CDC funding to research and develop distributed ledger technologies (a.k.a. blockchain) to track and streamline the process of deployments during emergency events
- Developed several proposals, including detailed work plans and budgets, for cooperative agreements and federal grants which were awarded multi-year funding totaling up to \$500k/year

- Provided for several Ministries of Health in Africa in topics including: electronic surveillance, one health, open source development, interoperability, public health messaging and vocabulary standards, and the World Health Organization’s International Health Regulations (IHR [2005])
- Presented at national and international public health conferences
- Served as project director and principal analyst for a 2-year project to develop and conduct a national assessment to evaluate baseline capacity and gaps in electronic surveillance in Kenya, Nigeria, Burkina Faso, Uganda, and Cameroon
- Developed and conducted two-week case study design and development course at Emory University for two cohorts resulting in publication of two editions of journal supplements of case studies for use in interactive training of public health epidemiology and practice competencies
- Supported administration, implementation, and pilot testing of the CDC Frontline Field Epidemiology Training Program in Liberia to rebuild national public health capacity following the 2014 Ebola outbreak
- Organized and facilitated a national surveillance stakeholders’ meeting on behalf of the Liberia Ministry of Health
- Participated as a guest lecturer for the e-Surveillance summer course at Columbia University
- Developed functional requirements and information architecture for the National Notifiable Diseases Surveillance System (NNDSS) online database of case definitions
- Supported development of disease-specific message mapping guides for the National Electronic Diseases Surveillance System (NEDSS)
- Designed and implemented a CDC-CSTE online survey to annually catalog state reportable conditions and reporting requirements to support national notifiable disease surveillance
- Utilized SAS to develop reports for state reportable diseases and reporting requirements
- Supported annual implementation of updated national notifiable disease reporting requirements
- Trained medical professionals at public health departments in GA, KY, and TN in use of GIS tools
- Drafted a hazard mitigation plan for extreme heat for the Georgia Department of Community Health
- Developed costing tool for International Health Regulations (IHR [2005]) implementation. Pilot tested in France and Cameroon in collaboration with the World Health Organization.
- Lead a pre-conference workshop for Public Health Strategic Planning in the context of IHR (2005) at the International Society for Disease Surveillance annual conference
- Designed surveys and conducted evaluation of biosafety training and compliance at BSL-3 and BSL-4 laboratories in FL and TX

## **WORK HISTORY**

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<b>Public Health Informatician and Analyst</b> Situational Awareness Branch, Division of Emergency Operations Center for Preparedness and Response, CDC – Atlanta, GA	Nov 2016 - present
<b>Guest Lecturer – EPIC e-Surveillance Summer Course</b> Columbia University – New York, NY	Jun 2016
<b>Sr. Public Health Program Associate</b> Rollins School of Public Health, Emory University – Atlanta, GA	May 2015 – Nov 2016

**Sr. Technical Advisor/Project Director** Oct 2010 – May 2015  
Public Health Practice, LLC – Atlanta, GA

**Emergency Management Intern** Jul 2010 – Dec 2010  
Georgia Department of Community Health – Atlanta, GA

**Program Administrator/Public Health Program Analyst** Jun 2007 – Apr 2011  
McKing Consulting – Atlanta, GA

**Principal Researcher – SphinGOMAP** May 2004 – Aug 2007  
Georgia Institute of Technology – Atlanta, GA

**Undergraduate Teaching Assistant – Cell Biology** Jan 2004 – Dec 2005  
Georgia Institute of Technology – Atlanta GA

## EDUCATION

**Certificate in Full Stack Web Development** Feb 2019  
Georgia Institute of Technology – Atlanta, GA

**Masters Certificate in Systems Design and Project Leadership** June 2013  
Cornell University – Ithaca, NY

**Masters of Public Health – Emergency Management** May 2011  
Benedictine University – Lisle, IL

**Bachelor of Science – Molecular Biology** May 2007  
Georgia Institute of Technology – Atlanta, GA

## SELECTED PUBLICATIONS

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- Githuku JN, Boru WG, Hall CD, Gura Z, Oyugi E, Kishimba RS, Semali I, Farhat GN, Park MM (2017) Cholera Outbreak in Homa Bay County, Kenya 2015. *Pan Afr Med J.* 27(Suppl 1): 4.
- Frimpong JA, Amo-Addae MP, Adewuyi PA, Park MM, Hall CD, Nagbe TK (2017) Investigating an Outbreak of Measles in Margibi County, Liberia, October 2015. *Pan Afr Med J.* 27(Suppl 1): 5.
- Fawole OI, Dalhat MM, Park MM, Hall CD, Nguku PM, Adewuyi PA (2017) Contact Tracking Following Outbreak of Ebola Disease in Urban Settings in Nigeria. *Pan Afr Med J.* 27(Suppl 1): 8.
- Park M, Reeves L (2016) Models of Public Health Surveillance. In S.J.N. McNabb, M. Conde, L. Ferland, S. Okutani, M. Park, A. Shaikh, V. Singh (Eds.). *Transforming Public Health Surveillance: Proactive Measures for Prevention, Detection, and Response*. Amman, Jordan: Elsevier.
- Meeks H, Haile HB, Erondu N, Ferland L, Park M, Shaikh A, McNabb SJN (2013) Monitoring and evaluating laboratory biosafety programs. *Biosecurity: Understanding, Assessing and Preventing the Threat*. Hoboken, New Jersey: John Wiley & Sons.
- Erondu N, Haile HB, Ferland L, Park M, Shaikh A, Meeks H, McNabb SJN (2012) Identification and Assessment of Public Health Surveillance Gaps under the IHR (2005). *International Society for Disease Surveillance*.
- Meeks H, Haile HB, Ferland L, Park M, McNabb SJN (2012) New Strategy to Monitor and Assess Laboratory Biosafety Programs. *International Society for Disease Surveillance*.

- McNabb S, Wamala J, Naz A, Hartrampf A, Samoly D, Mutonga D, Park M (2011) Novel conceptual framework and toolset for country-wide assessments of opportunities and challenges for public health interventions. *Emerging Health Threats Journal*. 4:11169.
- Jajosky R, Rey A, Park M, Aranas M, Macdonald S, Ferland L (2011) Findings from the Council of State and Territorial Epidemiologists' 2008 assessment of state reportable and nationally notifiable conditions in the United States and consideration for the future. *J Public Health Manag Pract*. 17(3):255-64.
- Hall-Baker PA, Groseclose SL, Jajosky RA, Adams DA, Sharp P, Anderson WJ, Abellera JP, Aranas AE, Mayes M, Wodajo MS, Onweh DH, Park M, Ward J (2011). Summary of Notifiable Diseases – United States, 2009. *MMWR*. 58(53): 1-100.
- Hall-Baker PA, Nieves E, Jajosky RA, Adams DA, Sharp P, Anderson WJ, Aponte JJ, Aranas AE, Katz SB, Mayes M, Wodajo MS, Onweh DH, Park M (2010) Summary of Notifiable Diseases – United States, 2008. *MMWR*. 57(54)1-94.
- Merrill AH Jr., Wang MD, Park M, Sullards MC (2007) (Glyco)Sphingolipidology: an amazing challenge and opportunity for systems biology. *Trends Biochem Sci*. 32(10):457-68.
- Park M, Koppikar A, Lee R, Suzuki A, Uyesugi K, Wang J, Wang MD, Merrill AH Jr. (2007) SphinGOMAP. Georgia Institute of Technology. <http://www.sphingomap.org>