**ALIYU MOHAMMED**

**Address**: **E-mail**: gentlejones22@yahoo.com

Department of Epidemiology and Biostatistics,

**Contact**: +233 – 242318077/503168237

School of Public Health, KNUST

**KEY SKILLS**

* Proficient in quantitative & qualitative research
* eHealth/mHealth system applications
* Proficient in the use of Statistical Data Analysis Software Packages including STATA (excellent), Epi Info (good), SPSS (excellent) & R (good))
* Development of mADDS (Mobile Assisted Data & Dissemination System) database (excellent) and Census and Survey Processing System (CSPro) database (good) for data management
* Evaluation of Health Information and Management Systems (HIMS)
* Geo-Spatial analysis and mapping with ArcGIS and

**AREAS OF SPECIALIZATION**

* Maternal & Child Health
* eHealth/mHealth
* Tuberculosis
* HIV/AIDS
* Malaria
* Spatial epidemiology (Disease mapping)

**EDUCATION**

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| --- | --- | --- | --- |
| Start date – Completion date | Degree | Field of study | Institution & Location |
| 08/05 – 06/09  | BSc | Biological Sciences | Kwame Nkrumah University of Science & Technology, Kumasi, Ghana |
| 08/10 – 07/12 | MPH | Public Health | Kwame Nkrumah University of Science & Technology, Kumasi, Ghana |
| 08/14 – 11/18  | PhD | Public Health | Kwame Nkrumah University of Science & Technology, Kumasi, Ghana |

**PROFESSIONAL EXPERIENCE**

08/20 – Present

**Lecturer** – Department of Epidemiology and Biostatistics, School of Public Health, Kwame Nkrumah University of Science & Technology (KNUST), Ghana.

01/18 – Present

**mHealth Coordinator/Post-Doctoral Research Scientist** – Reducing child mortality: the role of mobile electronic health information system; Department of Global and International health, KNUST, Ghana.

06/20 – 09/20

**Data Scientist (Consultant)** – Analysis of National/Sub-national COVID-19 data for the Ghana Health Service. *Partners*: Ghana Health Service & A Clinton Health Access Initiative (CHAI)

06/20 – 10/20

**Co-Principal Investigator/Consultant** – Assessing the stigma of Tuberculosis in Ghana: consequences to accessing and provision of services. *Partners*: National Tuberculosis Program (Ghana Health Service), Ghana-West Africa Program to Combat AIDS and STI (WAPCAS), TB Voice Network Ghana & Stop TB Geneva.

07/20 – 10/20

**Data Manager/Supervisor** – A national survey in Ghana on the Quality of Care and Needs Assessment of Emergency Obstetric and Newborn Care. *Partners*: Ghana Health Service, UNFPA, JICA, UNICEF & USAID.

07/17 – 12/19

**Data Economist/Project Coordinator** – Morbidity and surveillance of pathology of lymphatic filariasis and ADLA attacks using a mobile phone-based tool by community health volunteers in Ghana; Kumasi Centre for Collaborative Research (KCCR).

01/17 – 10/2019

**Regional Supervisor** - Documenting the Incidence and Impact of Unsafe Abortion in Ghana. Partners: The Guttmacher Institute (New York) & SPH-KNUST in collaboration with Ghana Health Service with Funding from Department for International Development (DFID), UK and Dutch Ministry of Foreign Affairs.

06/19 – 07/19

**Data Manager/Supervisor** – Household assessment for family planning commodities and services in Ghana. School of Public Health, KNUST & [Department for International Development](https://www.gov.uk/government/organisations/department-for-international-development) (DFID).

07/17 - 29/18

**Co-Principal Investigator** – Assessment of pulmonary tuberculosis in pregnant women in Ghana. A USAID/Ghana Evaluate Health Research Scholars Programme.

03/17 – 06/17

**Data Manager/Supervisor** – Reproductive Health Commodities and Services Survey (RHCSS); School of Public Health, KNUST, Ghana Health Service (GHS), **UNFPA**.

06/14 – 09/16

**Data Manager** – Community-based Hypertension Improvement Project (ComHIP) in Ghana; School of Public Health, Legon. FHI 360, the Ghana Health Service, Ministry of Health, London School of Hygiene & Tropical Medicine, VOTO Mobile.

07/14 – 12/15

**Project Coordinator/Data Manager** – A mobile phone based electronic health information and surveillance system for Africa (eHISS); Kumasi Centre for Collaborative Research (KCCR).

07/13 – 09/16

**Project Supervisor** – Mobile phone-based Performance Monitoring & Accountability (PMA) 2020, Ghana; Johns Hopkins Bloomberg School of Public Health in collaboration with School of Public Health, KNUST & GHS.

04/13 – 05/13

**Project Assistant/Assistant Data Manager** – An assessment of effect of leadership training & performance-based grants on district level public health services outcomes; School of Public Health (USAID in collaboration with FRHP & GHS).

02/13 – 03/13

**Project Assistant** – Post-Hang-up survey of nutrition & malaria control for child survival project (University of Ghana, School of Public Health) &World Bank in collaboration with Ministry of Health, Ghana).

02/13 – 30/13

**Project Officer/Data Manager** (R3M Project) – Community Based Behavioural Change Project (R3M); Willows Foundation, Ghana.

11/12 – 12/12

**Project Supervisor/Data Manager** – *Evaluation of Standard Days Method (SDM) Introduction in Six Selected Health Districts in Ghana* (Institute for Reproductive Health/Georgetown University Statement of Work (SOW), funded by Georgetown University & USAID Ghana).

06/12 – 08/12

**Assistant Project Coordinator** (Volunteer) – Community Based Behavioural Change Project (R3M); Planned Parenthood Association of Ghana (PPAG), Willows Foundation & GHS.

07/11 – 12/13

**Public Health Practitioner** (MPHStudent internship) – Ejisu-Juabeng Municipal Health Directorate, Ghana Health Service, Ejisu, Ashanti Region, Ghana.

09/09 – 07/10

**Regulatory Officer** (National Service Personnel); Food & Drugs Authority (FDA), Ghana

05/08 – 08/08

**Laboratory Assistant** (Internship) – 37 Military Hospital

**University Teaching Experience**

02/19 – 06/19

**Teaching first year Physician Assistant** **students:** Biostatistics (PAC 156)–School ofMedicine and Dentistry.

08/15 – 12/17

**Teaching fourth year Doctor of Pharmacy (PharmD) students:** Biostatistics and Research Methods (Pharm 493**)** – Department of Clinical & Social Pharmacy, Kwame Nkrumah University of Science & Technology (KNUST), Kumasi, Ghana. (Under the supervision of Prof. Easmon Otupiri and Prof. Ellis Owusu-Dabo)

08/16 – 12/19

**Teaching Master of Science (MSc) students:** Public and Environmental Health– College of Engineering, Faculty of Civil and Geomatic Engineering, [Kumasi](https://rwesck.org/) (RWESCK), Regional Water and Environmental Sanitation Centre, Kwame Nkrumah University of Science & Technology (KNUST), Ghana. (Under the supervision of Prof. Ellis Owusu-Dabo)

08/18 – 12/19

**Teaching Doctor of Philosophy (PhD) students:** Public and Environmental Health **–** College of Engineering, Faculty of Civil and Geomatic Engineering, RWESCK, Ghana. (Under the supervision of Prof. Ellis Owusu-Dabo)

**RESEARCH AND PUBLICATIONS**

**Research and Educational Grants**

28/07/17 – 29/2018 - USAID/Ghana Evaluate Health Research Scholars Programme. (Aliyu Mohammed) PI, $5,000, 25% effort

01/01/18 – present

Reducing child mortality: the role of mobile electronic health information system. (Aliyu Mohammed) Coordinator, $650,000, 40% effort

## **Peer-reviewed Publications**

1. Awua-Boateng, N.Y., **Mohammed, A.,** Aglanu, L.M., Acheampong, G., Amuasi, J.H., Bonsu, F.A., Phillips, R.O., Owusu-Dabo, E., 2019. Is pulmonary tuberculosis in pregnant women a problem in Ghana? Observations and lessons from the national tuberculosis prevalence project. Int. J. Mycobacteriology 8, 267.
2. Ayisi-Boateng, N.K., Enimil, A., **Mohammed, A.**, Essuman, A., Lawson, H., Aninng, D.O., Agyemang-Yeboah, D., Spangenberg, K., 2020. Predictors of family functionality amongst human immunodeficiency virus-serodiscordant couples in two major hospitals in Kumasi, Ghana. Afr. J. Prim. Health Care Fam. Med. 12, 6.
3. Brinkel, J., May, J., Krumkamp, R., Lamshöft, M., Kreuels, B., Owusu-Dabo, E., **Mohammed, A.**, Bonacic Marinovic, A., Dako-Gyeke, P., Krämer, A., 2017. Mobile phone-based interactive voice response as a tool for improving access to healthcare in remote areas in Ghana–an evaluation of user experiences. Trop. Med. Int. Health 22, 622–630.
4. Franke, K.H., Krumkamp, R., **Mohammed, A.**, Sarpong, N., Owusu-Dabo, E., Brinkel, J., Fobil, J.N., Marinovic, A.B., Asihene, P., Boots, M., 2018. A mobile phone- based tool to identify symptoms of common childhood diseases in Ghana: development and evaluation of the integrated clinical algorithm in a cross-sectional study. BMC Med. Inform. Decis. Mak. 18, 23.
5. **Mohammed, A.**, Acheampong, P.R., Otupiri, E., Osei, F.A., Larson-Reindorf, R., Owusu-Dabo, E., 2019. Mobile phone short message service (SMS) as a malaria control tool: a quasi-experimental study. BMC Public Health 19, 1193. https://doi.org/10.1186/s12889-019-7336-6
6. **Mohammed, A**., Franke, K., Okyere, P.B., Brinkel, J., Marinovic, A.B., Kreuels, B., Krumkamp, R., Fobil, J., May, J., Owusu-Dabo, E., 2018. Feasibility of Electronic Health Information and Surveillance System (eHISS) for disease symptom monitoring: A case of rural Ghana. PLOS ONE 13, e0197756. https://doi.org/10.1371/journal.pone.0197756
7. **Mohammed, A.**, Acheampong, P.R., Otupiri, E., Osei, F.A., Larson-Reindorf, R., Owusu-Dabo, E., 2019. Mobile phone short message service (SMS) as a malaria control tool: a quasi-experimental study. BMC Public Health 19, 1193. https://doi.org/10.1186/s12889-019-7336-6
8. Ayisi‐Boateng, N.K., **Mohammed**, **A**., Opoku, D.A. and Sarfo, F.S., 2020. Frequency & factors associated with apparent resistant hypertension among Ghanaians in a multicenter study. *The Journal of Clinical Hypertension*, *22*(9), pp.1594-1602.
9. Agbeno EK, Osarfo J, Ashong J, Anane-Fenin B, Okai E, Ofori AA, **Aliyu M,** Opoku DA, Ken-Amoah S, Ashong JA, Soltani H. Determinants of preterm survival in a tertiary hospital in Ghana: A ten-year review. PloS one. 2021 Jan 22;16(1):e0246005.
10. Adjei, T.K., **Mohammed, A.,** Acheampong, P.R., Acquah-Gyan, E., Sylverken, A., Twumasi-Ankrah, S., Owusu, M., Owusu-Dabo, E., 2021. Determinants of a mobile phone-based Interactive Voice Response (mIVR) system for monitoring childhood illnesses in a rural district of Ghana: Empirical evidence from the UTAUT model. PloS One 16, e0248363.
11. Agbeno, E.K., Osarfo, J., Anane-Fenin, B., Achampong, E.K., Neequaye, N.A., Opoku, D.A., Aliyu, M., Ken-Amoah, S., Ofori, A.A., Ashong, J.A., 2021. Attitudes and Practices of Healthcare Professionals and Clinical Medical Students on Contraception: A Cross-Sectional Study in Cape Coast, Ghana. Int. J. Reprod. Med. 2021.
12. Agyare, S.A., Osei, F.A., Odoom, S.F., Mensah, N.K., Amanor, E., Martyn-Dickens, C., Owusu-Ansah, M., Mohammed, A. and Yeboah, E.O., 2021. Treatment Outcomes and Associated Factors in Tuberculosis Patients at Atwima Nwabiagya District, Ashanti Region, Ghana: A Ten-Year Retrospective Study. *Tuberculosis Research and Treatment*, *2021*.

**Accepted/Under Peer-review Manuscript for Publication**

**Mohammed, A**., A., Acheampong, Osei, F. A., Yeboah, E. O., Owusu-Dabo, E. Effect of a mobile phone-based health information system on knowledge of malaria among caregivers of children under-five in a rural district of Ghana: a quasi-experimental study. BMC Medical Informatics and Decision Making. 2019 (Under review)

**Conference Meetings/Presentations**

**A. Mohammed**, P. R. Acheampong, E. Otupiri, F. A. Osei, R. Larson-Reindorf, E. Owusu-Dabo., 2019. Mobile phone short message service (SMS) as a malaria control tool: a quasi-experimental study. 8th College of Health Sciences, KNUST & 12th Convention of Biomedical Research Ghana, Joint Scientific Conference. [30] (Podium)

E. Acquah-Gyan, E. Owusu-Dabo, P. R. Acheampong, **A. Mohammed**, T. Adjei., 2019. Usefulness and challenges of an mHealth Intervention in rural communities in the Asante Akim North of Ghana: A Qualitative study. 8th College of Health Sciences, KNUST & 12th Convention of Biomedical Research Ghana, Joint Scientific Conference. [6] (Poster)

T. K. Adjei, E. Owusu-Dabo, P. R. Acheampong, **A. Mohammed**, E. Acquah-Gyan., 2019. Assessing the factors associated with the use of a mobile phone-based health information system among caregivers of children under-five in rural Ghana. 8th College of Health Sciences, KNUST & 12th Convention of Biomedical Research Ghana, Joint Scientific Conference. [Po85] (Poster)

Otupiri E, **Mohammed A**, Apenkwa J, Larsen-Reindorf R. Determinants of contraceptive discontinuation among women of reproductive age in the Ejisu health district, Ghana. Presented at the International Conference on Family Planning, Addis Ababa, Ethiopia. November 12-15, 2013 [SP 16] (Podium)

**REFEREES**

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