

Curriculum Vitae  
**MD. IMRAN HOSSAIN MITHU**

**Work**

Community, Environment & Policy  
Department  
Mel and Enid Zuckerman College of Public  
Health, University of Arizona  
[Imranmithu@arizona.edu](mailto:Imranmithu@arizona.edu)

**Home**

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**Education**

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**Doctor of Philosophy (PhD)**  
*(August 2023 to continuing)*

Mel and Enid Zuckerman College of Public  
Health, University of Arizona  
Environmental Health Science Department

**Doctor of Philosophy (PhD)**  
*(January 2023 to July 2023;  
transferred to UofA, Fall  
2023)*

UAlbany School of Public Health, SUNY Albany  
Environmental Health Science Department

**Master of Public Health**  
*(2019-2020)*

BRAC James P. Grant School of Public Health,  
BRAC University,  
Mohakhali, Dhaka, Bangladesh  
(BRAC University Scholarship Award granted by **BRAC  
University**)

Result

Successfully completed with **Second-Highest academic  
performance**

Thesis work

Dietary pattern and nutritional status of college-going  
adolescents (15-19 years) in Dhaka city: Findings from a  
cross-sectional study

Supervisors

Prof. Zahidul Quayyum, Professor & Co-Director of Centre  
of Excellence for Urban Equity and Health (CUEH),  
BRAC James P. Grant School of Public Health, BRAC  
University, Dhaka, Bangladesh  
Md. Tanvir Hasan  
Assistant Professor & Co-Director of Centre of Excellence  
for Urban Equity and Health (CUEH)  
BRAC James P. Grant School of Public Health, BRAC  
University, Dhaka, Bangladesh

**Bachelor of Dental Surgery**  
*(2012-2016)*

Dhaka Dental College and Hospital, Mirpur-14, Dhaka- 1206  
(Bangladesh Government Scholarship Award granted by **GoB**)

Affiliation

University of Dhaka

Result

Successfully passed with a good academic record.

## Professional Experience

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### **Graduate Research Assistant**

*(August 2023 to continuing)*

Mel and Enid Zuckerman College of Public Health, University of Arizona.

**Department:** Community, Environment & Policy

**Project Name:** Soil/ Dust Ingestion for Children: A Modeling and Data Collection Approach Based on Regional and Sociodemographic Differences

### **Graduate Research Assistant**

*(January 2023 to July 2023)*

UAlbany School of Public Health, SUNY Albany

**Department:** Environmental Health Science Department

**Project Name:** NIH R01: Weather extremes, natural disasters, and health outcomes among vulnerable older adults: new improvements in exposure assessment, disparity identification, and risk communication strategies

### **Research Fellow**

*(December 2021 to June 2022)*

International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b)

**Department:** Infectious Diseases Division (IDD)

### **Job description**

Worked on a project named Strategies to Prevent (STOP) Spillover, a USAID-funded project led by Tufts University is a global consortium of experts in human, animal, and environmental health who will take the next step in understanding and addressing the risks posed by known zoonotic viruses that have the potential to spill over and cause pandemic crises.

### **Duties/Responsibilities:**

- Qualitative and quantitative tool preparation
- Qualitative data and quantitative data collection
- Qualitative and quantitative data analysis and report writing

- Secondary data analysis
- Grant proposal writing
- Manuscript writing
- Training of research assistants and data collectors
- Surveillance
- Risk analysis

### **Research Associate**

*(January 2020 to November 2021)*

BRAC-James P. Grant School of Public Health, BRAC University, Dhaka, Bangladesh

**Department:** The Center of Excellence for Gender, Sexual and Reproductive Health and Rights (CGSRHR)

### **Job description**

Worked on a multi-country project named ARISE ([Accountability and responsiveness in informal settlements for equity](#)). Conducted research in urban informal settlements for exploring the lived experiences of marginalized, vulnerable people utilizing remote methodologies

### **Duties/Responsibilities:**

- Qualitative and quantitative tool preparation
- Qualitative data and quantitative data collection
- Qualitative and quantitative data analysis and report writing
- Lead quantitative survey
- Secondary data analysis
- Grant proposal writing
- Manuscript writing
- Train Research Assistants and Data collectors
- Blog Write up
- Spatial data analysis

### **Teaching fellowship**

*(February 2020 to November 2021)*

Institution: BRAC-James P. Grant School of Public Health, BRAC University, Dhaka,

Bangladesh

Degree: Master of Public Health (MPH)

Courses

- Anthropological Approaches to Public Health
- Health System Management
- Gender, Sexual and Reproductive Health & Rights
- Gender program management learning
- Environmental Health Science and Climate Change

**Mentorship**

*(November 2020 to January 2021)*

Institution: BRAC-James P. Grant School of Public Health, BRAC University, Dhaka, Bangladesh

Degree: Master of Public Health (MPH)

Course: Summative learning project (SLP) which is the final thesis for the master's students

**Trainer**

*(September 2020)*

**Title of the event:** Participatory action research during and after C19

In this event, we presented examples from existing projects using participatory and action research approaches and how these have been adapted during COVID-19. In addition, early career, junior, and other researchers were invited to bring problems they may be encountering in the COVID-19 context and ask panel members and attendees for advice and guidance about possible solutions and adaptations to research plans

**Research assistance and transcriber**

*(November 2018 to January 2019)*

Institution: BRAC-James P. Grant School of Public Health, BRAC University, Dhaka, Bangladesh

Worked as a research assistant and transcriber in summative learning project (SLP) for the master's students

**Medical officer & Academic researcher**  
(July 2018 to December 2018)

Dhaka Dental College and Hospital, Mirpur-14,  
Dhaka  
Department: Oral and maxillofacial surgery

**Health and Medical officer**  
(February 2018 to June 2018)

Famous Dental Clinic, Dhaka

**Intern doctor**  
(February 2017 to January 2018)

Dhaka Dental College and Hospital, Mirpur-14,  
Dhaka

## **Volunteer Experience**

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*April 2020 to ongoing*

Advisory board member, Pratimancha (Urban  
slum-based youth organization)

*March 2020 to Ongoing*

Technical advisor, Youth Associate Dholpur  
(Urban slum-based youth organization)

*2014*

Medical advisor, Free dental treatment camp  
in rural Bangladesh

## **Current Public Health Interests**

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Environmental Health; Exposure Science; Environmental Epidemiology; Environmental Health  
Data Science; Risk analysis; Surveillance; Environmental Toxicology

## **Peer-Reviewed Publications**

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*Published and In Press*

- Dash, S., Paray, A. A., De Freitas, L., **Mithu, M. I. H.**, Rahman, M. M., Ramasamy, A., & Pandya, A. K. (2021). Combating the COVID-19 infodemic: a three-level approach for low and middle-income countries. *BMJ Global Health*, 6(1), e004671. <https://doi.org/10.1136/bmjgh-2020-004671>
- de Siqueira-Filha, N.T., Li, J., Kibuchi, E., Quayyum, Z., Phillips-Howard, P., Awal, A., **Mithu, M.I.H.**, Manzoor, F., Karuga, R., Saidu, S. and Smith, J., 2021. Economics of healthcare access in low-income and middle-income countries: a protocol for a scoping review of the economic impacts of seeking healthcare on slum-dwellers compared with other city residents. *BMJ open*, 11(7), p.e045441. <http://dx.doi.org/10.1136/bmjopen-2020-045441>

- Kibuchi, E., Barua, P., Chumo, I., de Siqueira Filha, N. T., Phillips-Howard, P., **Mithu, M. I. H.**, ... & Gray, L. (2022). Effects of social determinants on children's health in informal settlements in Bangladesh and Kenya through an intersectionality lens: a study protocol. *BMJ open*, 12(6), e056494. <http://dx.doi.org/10.1136/bmjopen-2021-056494>
- Manzoor, F., Alam, W., **Hossain, I.**, Farnaz, N., Aktar, B., & Rashid, S. F. (2022). Social capital and accessing services and support during COVID-19 in informal settlements of Dhaka, Bangladesh: a cross-sectional study. *The Lancet Global Health*, 10, S9. [https://doi.org/10.1016/S2214-109X\(22\)00138-3](https://doi.org/10.1016/S2214-109X(22)00138-3)
- de Siqueira Filha, N. T., Li, J., Phillips-Howard, P. A., Quayyum, Z., Kibuchi, E., Mithu, M. I. H., ... & Elsey, H. (2022). The economics of healthcare access: a scoping review on the economic impact of healthcare access for vulnerable urban populations in low-and middle-income countries. *International journal for equity in health*, 21(1), 191. <https://doi.org/10.1186/s12939-022-01804-3>
- Barua, P., Kibuchi, E., Aktar, B., Chowdhury, S. F., Mithu, I. H., Quayyum, Z., ... & Gray, L. (2023). The effects of social determinants on children's health outcomes in Bangladesh slums through an intersectionality lens: An application of multilevel analysis of individual heterogeneity and discriminatory accuracy (MAIHDA). *PLOS Global Public Health*, 3(3), e0001588. <https://doi.org/10.1371/journal.pgph.0001588>

#### *Manuscripts in Progress*

- **Mithu, M.I.H.**, Hossain R., Shaon F., Rahman S., Sarkar, M., Environmental, agricultural and health impacts of brick kilns in the South Asian countries: A scoping review. (Accepted to International Journal of Environmental Science and Technology)
- Haque, T., Imtiaz SH., **Mithu, M.I.H.**, Khan, SH., Alam MM., Alam Z., Rokonuzzaman SM., Pullock OS., Pinky SD., Arbi AK., Murshid HB., Homaira, N., Hassan, MZ., Role of newspapers in creating public awareness regarding antimicrobial stewardship and resistance in Bangladesh, 2010-2021. (Accepted by the International Journal of Infectious Diseases)
- Aktar, B., Barua, P., **Mithu, M.I.H.**, Khan S., Rashid S.F., Participatory GIS Mapping to Identify Intermediary Determinants of Health and Wellbeing in Informal Urban Settlements in Dhaka, Bangladesh. (Accepted by the PLOS Global Public Health)

#### *Conference abstract and poster*

- **Mithu, M.I.H.**, Nathaniel, A.L., Banguara O.A., Sarkar, N., Sultana, R: Dietary pattern and nutritional status of college going adolescents (15-19 years) in Dhaka city: findings from a cross-sectional study, 16th World Congress on Public Health, November 2020 Rome, Italy

- **Mithu, M.I.H.**, Nathaniel, A.L., Banguara O.A., Sarkar, N., Sultana, R: Lifestyle factors, neighborhood environment, and nutritional status of college-going adolescents (15-19 years) in Dhaka city, Summative Learning Project (SLP), January 2020, BRAC James P Grant School of Public health, BRAC University.
- Rahman, M. M., Sultana, R., **Mithu, M.I.H.**, Gold E., Kihoro, E., Uzzaman, S.M., Osmani, T.M.G., Bhuiyan A.R.H., Bhuiyan M.R.K., Rimi, N.A. Identifying non-traditional live bird market actors and exploring their barriers as part of avian influenza risk reduction initiatives in Bangladesh, World One Health Congress 2022, November 2022, Singapore

### *Blog*

- Youth Associate: A light of hope for Dholpur slum residents during the COVID-19 pandemic, Link: <http://www.ariseconsortium.org/youth-associate-dholpur-slum-residents-covid-19-pandemic/>
- Quarantine life experience of light and hope during Covid-19, Link: <https://medium.com/@jpgsph.comms/>
- Remote GIS mapping in Dholpur: Co-production with co-researchers, Link: <http://www.ariseconsortium.org/remote-gis-mapping-in-dholpur-co-production-with-co-researchers/>
- 'Normal' or 'New Normal' Life in urban slums amid the COVID-19 pandemic, Link: <https://www.ariseconsortium.org/normal-or-new-normal-life-in-urban-slums-amid-the-covid-19-pandemic/>

### *Other Publications*

- Support equitable partnerships in global health: A toolkit for participatory health research methods.  
Link: <https://countdown.lstmed.ac.uk/sites/default/files/centre/Participatory%20Health%20Research%20Methods%20toolkit.pdf>
- Covid-19 rapid report: Impact of COVID-19 Lived Experiences of the Urban Poor in Slums during the Shutdown in Bangladesh  
Link: <https://www.ariseconsortium.org/learn-more-archive/impact-of-covid-19-urban-poor-in-slums-shutdown-in-bangladesh/>

## **Invited Presentation – International**

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- Lin, S., **Mithu, M.I.H.**, Nair, A.A., Qi, Q., Tree, I., Deng, X., Luo, G., Yu, F. Environmental exposures to extreme weather, natural disasters, and ultra-fine particles and multiple health outcomes among aging population. “5th World Aging And Rejuvenation Conference (ARC-2023)”

## MOOCs

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- Chemicals and Health- Johns Hopkins University
- Data Science Specialization- Johns Hopkins University
- Air Pollution – a Global Threat to our Health- University of Copenhagen
- Data and Health Indicators in Public Health Practice- Johns Hopkins University
- Epidemiology: The Basic Science of Public Health- University of North Carolina at Chapel Hill
- Health for All Through Primary Health Care- Johns Hopkins University
- Public Health in Humanitarian Crises 1- Johns Hopkins University
- The People, Power, and Pride of Public Health- Johns Hopkins University

## Skills

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- Computer Skills: R, STATA; NVivo; QGIS; Microsoft Office
- Research: Scoping review, Systematic Review, GIS, Spatial Data Analysis, Grant submission (Assisted in 2 NIH R01 grant submission); IRB application; Survey development; Study management, Secondary Data Analysis, Manuscript writing, big data analysis
- Teaching: Curriculum development, mentoring master's level students

## Professional/ Social network

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- ResearchGate Profile: <https://www.researchgate.net/profile/Md-Imran-Mithu>
- Orcid Profile: <https://orcid.org/0000-0001-8057-3092>
- Google Scholar: Md. Imran Hossain Mithu