

# SHSU VITA

## I. Academic/Professional Background

A. Name: **KHALID M. KHAN**

*Title: Associate Professor*

### B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>
Dr.PH.	2010	Columbia University	Environmental Health Sciences
MEM	2000	Griffith University	Environmental Management
M.Sc.	1998	University of Dhaka	Biochemistry ( <i>Environmental Microbiology</i> )
B.Sc.	1995	University of Dhaka	Biochemistry

### C. University Experience

<i>Position</i>	<i>University</i>	<i>Dates</i>
Associate Professor	Sam Houston State University	8/17/20 - present
Assistant Professor	Indiana University Bloomington	8/1/14 - 7/31/20
Postdoctoral Researcher	University of Iowa	1/10/12 - 6/30/14
Postdoctoral Researcher	Oregon Health and Science University	1/10/11 - 9/30/12
Lecturer	North South University, Bangladesh	9/1/00 - 7/31/04

## II. TEACHING & RESEARCH

### A. Teaching & Research Honors and Awards:

- 2021 Recipient of the COHS Faculty Research Award, Sam Houston State University
- 2019 Excellence in the Classroom Award, Indiana University School of Public Health, Bloomington, IN
- 2016 Study Abroad Program Development Grant, Indiana University Bloomington
- 2010 Best Doctoral Dissertation Award, Columbia University New York

### B. Courses Taught:

#### **Sam Houston State University (SHSU): 2020-Present**

- HLTH 5318 Current Topics in Environmental Health (Graduate Course)
- HLTH 5350 Public Health and Social Justice (Graduate Course)
- HLTH 5353 Epidemiology (Graduate Course)
- HLTH 4390 Environmental Health (Undergraduate Course)
- HLTH 4380 Global Health (Undergraduate Course)
- HLTH 3360 Epidemiology (Undergraduate Course)

#### **Indiana University Bloomington: 2014-2020**

- SPH B150 Introduction to Public Health
- SPH V241 Foundations of Environmental Health

SPH V341 Environmental Health Management and Policy  
 SPH V422 Issues in Global Environmental Health: Investigations & Intervention  
 SPH V492 Research in Environmental Health  
 SPH V522 Global Environmental Health Issues  
 SPH V545 Exposure Assessment and Control  
 SPH V691 Readings in Environmental Health  
 SPH V794 Environmental Health Seminar

C. Graduate Theses/Dissertations, Honors Theses, or Exit Committees (if supervisor, please indicate):

### Doctoral Students:

1. Primary Supervisor: Dissertation 2018-2020  
*Area:* Occupational and Environmental Health  
*Student:* Rishika Chakraborty, Indiana University Bloomington  
*Title:* *Handwashing and safe water behavior, food insecurity and mental health outcomes in women and children in low-income communities in urban New Delhi*
2. Lab Rotation Supervisor 2018  
*Area:* Occupational and Environmental Health  
*Student:* Zheng Zhou, Indiana University Bloomington  
*Title:* *Evaluation of the reliability of a computer neurocognitive test battery in an adolescent South Asian population*
3. Primary Supervisor & Co-Chair: Dissertation 2017-2020  
*Area:* Occupational and Environmental Health  
*Student:* Sylvanna Bielko, Indiana University Bloomington  
*Title:* *Review and evaluation of various formats of educational interventions to increase hearing protection use among farmworkers*
4. Committee Member: Dissertation 2016-2020  
*Area:* Applied Health Sciences  
*Student:* Tyler Nolting, Indiana University Bloomington  
*Title:* *'Time to Presentation': Midwestern Farmers with Prostate Cancer*

### Masters Student Involvement:

1. Project Supervisor 2021  
*Area:* Environmental Health & Neuroepidemiology  
*Student:* Iva Yesmin, SHSU  
*Title:* *Building Capacity to study mixed metal-induced neurotoxicity in rural Bangladeshi children*
2. Project Supervisor 2021  
*Area:* Occupational and Environmental Health  
*Student:* Matthew Franciskovich, SHSU  
*Title:* *A Pilot Study to Evaluate the Feasibility and Effectiveness of a Hearing Conservation Program for Farm Youth via Smartphone Apps in Texas*
3. Project Supervisor 2020  
*Area:* Neuroepidemiology  
*Student:* Lynette Hatch, SHSU  
*Title:* *Reliability of a computer-based neurobehavioral assessment test battery for Bangladeshi adolescent children*

4. Project Supervisor 2017  
*Area:* Occupational and Environmental Health  
*Student:* Sydney Evans, Indiana University Bloomington  
*Title:* *A pilot study on feasibility of a community-based hearing health intervention in rural Indiana*
5. Project Supervisor 2015  
*Area:* Epidemiology  
*Student:* Retushi Baidya, Indiana University Bloomington  
*Title:* *A cross-sectional study on pesticide exposure, neurological and mental health outcomes among conventional and organic farmers in Indiana*
6. Project Supervisor 2015  
*Area:* Occupational and Environmental Health  
*Student:* Ashamsa Aryal, Indiana University Bloomington  
*Title:* *Comparing mental and neuropsychological health outcomes between two pesticide exposure groups in rural Bangladesh*

#### **Undergraduate Student Involvement:**

7. Mentor, IU-STEM Summer Scholars Institute (funded by NSF) 2019  
*Area:* Occupational and Environmental Health New Collaboration Development  
*Student:* Olivia Ingram, North Carolina Agriculture and Technology University  
*Faculty:* *Emmanuel Obeng-Gyasi*  
*Title:* *Research project development initiative between Indiana University and North Carolina Agricultural and Technical State University*
8. Project Supervisor 2018  
*Area:* Occupational and Environmental Health  
*Student:* Janesh Karnati, Indiana University Bloomington  
*Title:* *Residential proximity to agricultural fields and neurological outcomes in rural adults in Matlab, Bangladesh*
9. Project Supervisor 2018  
*Area:* Occupational and Environmental Health  
*Student:* Claire Squire, Indiana University Bloomington  
*Title:* *A survey on the perception of noise exposure from recreational sources and associated risk of hearing loss among a group of college students in Indiana*
10. Project Supervisor 2017  
*Area:* Occupational and Environmental Health  
*Student:* Paige Wells, Indiana University Bloomington  
*Title:* *Sustainable hearing loss prevention among college students in Indiana*
11. Project Supervisor 2016  
*Area:* Occupational and Environmental Health  
*Student:* Ellen Potocsnak, Indiana University Bloomington  
*Title:* *Sustainable and low-cost hearing health screening in rural Indiana*

#### **D. Courses Prepared and Curriculum Development**

- 2016 Study Abroad Program Development: Environmental Health Interventions in India  
 2015 SPH V422 Issues in Global Environmental Health: Investigations & Intervention  
 2015 SPH V522 Global Environmental Health Issues

## **E. Publications** (\*Student Co-Author)

1. **Khan KM**, Hatch LC\*, Akhter S\*, Eunos M, Zhou Z\*, Parvez F, Rohlman D. Reliability of a computer-based neurobehavioral assessment test battery for Bangladeshi adolescent children. *Neurotoxicology*, 2021 April 30; 85: 47-53
2. Bielko SL\*, **Khan KM**, Weigel M. Perception and attitude towards various hearing conservation educational approaches among college agricultural students in Indiana. *J Agric Saf Health*. 2020 Sep 1; 26(4): 109-122.
3. Sharma N, Singh K, Pai SS, Toor D, **Khan KM**. Microbial contaminants and antimicrobial resistance in street fruit drinks and hygiene behavior of the vendors in Delhi, India. *Int J Environ Res Public Health*. 2020 July 4. 17(13), 4829
4. **Khan KM**, Chakraborty R\*, Bundschuh J, Bhattacharya P, Parvez F. Health effects of arsenic exposure in Latin America: An overview of the past eight years of research. *Sci Total Environ*. 2020 Mar 25; 710, 136071.
5. Chakraborty R\*, **Khan KM**, Dibaba D\*, Islam MZ, Khan AF. Health Implications of Drinking Water Salinity in Coastal Bangladesh. *Int J Environ Res Public Health*. 2019. 2019 Oct 4;16 (e-published), 3746.
6. **Khan KM**, Karnati J\*, Hamid I, Koceja D, Islam MZ, Khan AF. Residential proximity to agricultural fields and neurological and mental health outcomes in rural adults in Matlab, Bangladesh. *Int J Environ Res Public Health*. 2019 Sep 4;16(18), 3228.
7. **Khan KM**, Parvez F, Zoeller RT, Hocevar BA, Kamendulis LM, Rohlman D, Eunos M, Graziano J. Thyroid hormones and neurobehavioral functions among adolescents chronically exposed to groundwater with geogenic arsenic in Bangladesh. *Sci Total Environ*. 2019 Aug 15;678:278-287.
8. **Khan KM**, Weigel M, Yonts S\*, Rohlman DS, Armijos RX. Residential Exposure to Urban Traffic is Associated with the Poorer Neurobehavioral Health of Ecuadorian Schoolchildren. *Neurotoxicology*. 2019 Feb 28; 73: 31-39.
9. **Khan KM**, Bielko SL\*, McCullagh MC. Efficacy of hearing conservation education programs for youth and young adults: a systematic review. *BMC Public Health*. 2018 Nov 22;18(1):1286.
10. **Khan KM**, Baidya R\*, Aryal A\*, Farmer JR, Valliant J. Neurological and mental health outcomes among conventional and organic farmers in Indiana, USA. *Ann Agric Environ Med*. 2018 Jun 20; 25(2):244-249.
11. **Khan KM**, Evans SS\*, Bielko SL\*, Rohlman DS. Efficacy of technology-based interventions to increase the use of hearing protections among adolescent farmworkers. *Int J Audiol*. 2017 Sep 18:1-11.
12. **Khan KM**, Bielko SL\*, Barnes PA, Evans SS\*, Main ALK. Feasibility of a low-cost hearing screening in rural Indiana. *BMC Public Health*. 2017 Sep 18;17(1):715.
13. **Khan K**, Ahmed E, Factor-Litvak P, Liu X, Siddique AB, Wasserman GA, Slavkovich V, Levy D, Mey JL, van Geen A, Graziano JH. Evaluation of an Elementary School-based Educational

Intervention for Reducing Arsenic Exposure in Bangladesh. *Environ Health Perspect.* 2015 Dec;123 (12):1331-6.

14. White H\*, **Khan K**<sup>#</sup>, Lau C, Leung H, Montgomery D, Rohlman DS. Identifying Health and Safety Concerns in Southeast Asian Immigrant Nail Salon Workers. *Arch Environ Occup Health.* 2015;70(4):196-203.
15. **Khan K**, Ismail AA, Abdel Rasoul G, Bonner MR, Lasarev MR, Hendy O, Al-Batanony M, Crane AL, Singleton ST, Olson JR, Rohlman DS. Longitudinal assessment of chlorpyrifos exposure and self-reported neurological symptoms in adolescent pesticide applicators. *BMJ Open.* 2014 Mar 4;4 (3):e004177.
16. Crane AL, Abdel Rasoul G, Ismail AA, Hendy O, Bonner MR, Lasarev MR, Al-Batanony M, Singleton ST, **Khan K**, Olson JR, Rohlman DS. Longitudinal assessment of chlorpyrifos exposure and effect biomarkers in adolescent Egyptian agricultural workers. *J Expo Sci Environ Epidemiol.* 2013 Jul;23(4):356-62.
17. George CM, Factor-Litvak P, **Khan K**, Islam T, Singha A, Moon-Howard J, van Geen A, Graziano JH. Approaches to increase arsenic awareness in Bangladesh: an evaluation of an arsenic education program. *Health Educ Behav.* 2013 Jun;40(3):331-8.
18. **Khan K**, Wasserman GA, Liu X, Ahmed E, Parvez F, Slavkovich V, Levy D, Mey J, van Geen A, Graziano JH, Factor-Litvak P. Manganese exposure from drinking water and children's academic achievement. *Neurotoxicology.* 2012 Jan;33(1):91-7.
19. **Khan K**, Factor-Litvak P, Wasserman GA, Liu X, Ahmed E, Parvez F, Slavkovich V, Levy D, Mey J, van Geen A, Graziano JH. Manganese exposure from drinking water and children's classroom behavior in Bangladesh. *Environ Health Perspect.* 2011 Oct; 119 (10):1501-6.
20. Parvez F, Wasserman GA, Factor-Litvak P, Liu X, **Khan K**, Slavkovich V, Siddique AB, Sultana R, Sultana R, Islam T, Levy D, Mey JL, van Geen A, Kline J, Ahsan H, Graziano JH. Arsenic exposure and motor function among children in Bangladesh. *Environ Health Perspect.* 2011 Nov; 119 (11):1665-70.
21. Peng T, Li LQ, Peng MH, Liu ZM, Liu TW, **Khan KM**, Guo Y, Xiao KY, Qin Z, Ye XP, Mo XS, Yan LN, Lee BL, Shen HM, Tamae K, Wang LW, Wang Q, Wang KB, Liang RX, Wei ZL, Kasai H, Ong CN, Santella RM. Evaluation of oxidative stress in a group of adolescents exposed to a high level of aflatoxin B1--a multi-center and multi-biomarker study. *Carcinogenesis.* 2007 Nov; 28 (11):2347-54.

#### **F. Publications In-review or In-Progress**

1. **Khan KM**, Chakraborty R\*, Brown S, Sultana R, Colon A\*, Toor D, Upreti P, Sen B. Association between handwashing behavior and infectious diseases among low-income community children in urban New Delhi, India. *Int J Environ Res Public Health.* In-review.
2. Chakraborty R\*, Weigel M, **Khan KM**. Food insecurity is associated with diarrhea, respiratory illness, and stunting but not underweight or obesity in low-resource New Delhi households. *J Hunger and Env Nutrition* 2021. In-review.
3. Bielko SL\*, **Khan KM**, Weigel M. Effectiveness of hearing health educational approaches for

- adolescent farmers studying in high schools in rural Indiana. *Int J Audiol*. 2021. In-progress.
4. Bielko SL\*, **Khan KM**, Weigel M. A systematic review of technology-based hearing conservation interventions for the prevention of noise-induced hearing loss in occupational settings. *Int J Audiol*. 2021. In-progress.
  5. Chakraborty R\*, **Khan KM**, Weigel M. Association between household food insecurity and psychosocial dysfunction among children from a low-income community in New Delhi, India. *Journal of Community Health*. 2020. In-progress.
  6. Chakraborty R\*, Taylor S\*, Toor D, Sultana R, Bush K, **Khan KM**. Microbial contamination in drinking water, antimicrobial resistance, and diarrheal diseases in a low-income community in New Delhi, India. *Am J Trop Med Hyg*. 2020. In-progress.

## **G. Conference Presentations**

1. Basith I, **Khan KM**, Islam ABM, Sultana MR, and Raisa S. A Faculty Roundtable on Instructional Challenges during the Pandemic. Conference Paper at the 2021 Annual Conference & Exposition, American Society for Engineering and Technology. Washington DC (Virtual Conference in July 2021).
2. **Khan KM**, Jayna Kozlowski\*, and McCullagh M. Effectiveness of a Smartphone-Based Hearing Conservation Intervention Among Farm Youth. Podium Presentation at the 44<sup>th</sup> Annual National Hearing Conservation Association (NHCA) Conference (February 20-22, 2020), Destin, FL.
3. Toor D, Upreti P, Bush K, Sultana R, Chakraborty R, and **Khan KM**. Bacterial Contamination and Antibiotic Resistance in Water and Hand Samples Collected from Children in a Low Socioeconomic Setting in New Delhi, India. Presentation at the American Society for Microbiology (ASM) 2020 Conference (June 18-22, 2020), Chicago, IL.
4. **Khan KM**. Metal Co-exposure – Mitigation, Brain Health and Thyroid Hormone Disruption. Invited Speaker in International Symposium on Environment, Disaster and Health organized by Environment and Health working group of the International Society for Photogrammetry and Remote Sensing (ISPRS) and the Institute of Disaster Management and Vulnerability Studies, University of Dhaka (December 18-20, 2019), Dhaka, Bangladesh.
5. Karnati J\*, Chakraborty R\*, Sen B, Toor D, Devi OH, and **Khan KM**. “Public Health and You” short-courses to strengthen public health workforce in India. Poster Presentation at the 10<sup>th</sup> Consortium of Universities for Global Health (CUGH) Conference (March 8-10, 2019), Chicago, IL.
6. **Khan KM**, Bielko S\*, and McCullagh M. Use of Technology in Hearing Protection Educational Interventions among Youth: Lessons Learned from Recent Studies. Podium Presentation at the 43<sup>rd</sup> Annual National Hearing Conservation Association (NHCA) Conference (February 7-9, 2019), Dallas, TX.
7. Chakraborty R\*, Karnati J\*, Sultana R, Sen B, Gupta M, Toor D, Devi OH, Mir UA, Bush K, Pyburn A, and **Khan KM**. Design of a Prospective Epidemiological Study on a Handwashing and Safe Water Intervention in a Low-Income Community in Urban New Delhi. Poster Presentation at the 10th Annual Meeting of Indiana Clinical and Translational Sciences Institute

(CTSI) (September 14, 2018), Indianapolis, IN.

8. **Khan KM**. Environmental Health Research: Examining Exposure-Outcome Relationships for Preventing Diseases. Podium Presentation as an Invited Speaker in Amity University Uttar Pradesh (July 20, 2018), New Delhi, India.
9. **Khan KM**, Parvez F, Kamendulis L, Hocevar B, Zoeller, T, and Graziano J. Drinking water arsenic exposure, thyroid hormone biomarkers and neurobehavioral outcomes in adolescents. 7th International Congress on Arsenic in the Environment – Environmental Arsenic in a Changing World (As2018), (July 1-5, 2018), Beijing, China.
10. **Khan KM**, McCullagh M, and Bielko S\*. Hearing Health Education Programs for Rural Youth: Lessons Learned from Recent Studies. Poster Presentation at the 42<sup>nd</sup> Annual National Hearing Conservation Association (NHCA) Conference (February 15-17, 2018), Orlando, FL.
11. Bielko S\*, and **Khan KM**. Perception, Attitude, and Knowledge on Hearing Health and Conservation among Youth from Indiana. Poster Presentation at the 42<sup>nd</sup> annual National Hearing Conservation Association (NHCA) Conference (February 15-17, 2018), Orlando, FL.
12. Yonts S\*, **Khan KM**, Rodrigo A, Weigel M et al. Traffic-related air pollution and child behavior problems in school children in Quito, Ecuador. Poster Presentation at the 8<sup>th</sup> Consortium of Universities for Global Health (CUGH) Conference (April 7-9, 2017), Washington, D.C.
13. Bielko S\*, Strader S\*, Aryal A\*, Barnes P, and **Khan KM**. Feasibility of a Low-Cost Hearing Screening in Rural Indiana. Poster Presentation at the 8<sup>th</sup> Annual Meeting of Indiana Clinical and Translational Sciences Institute (CTSI) (September 23, 2016), Indianapolis, IN.
14. **Khan KM**, Aryal A\*, and Islam M. et al. Comparing mental and neuropsychological health outcomes between two pesticide exposure groups in rural Bangladesh. Poster Presentation at the 7<sup>th</sup> Consortium of Universities for Global Health (CUGH) Conference (April 10-12, 2016), San Francisco, CA.
15. **Khan KM**, Winborn A, and Rohlman DS. Evaluation of Technology-based Interventions to Increase the Use of Hearing Protection among Adolescent Farmworkers in Iowa. Podium Presentation at the 13<sup>th</sup> Annual Midwest Rural Agricultural Safety and Health Conference (November 19-20, 2014), Ankeny, IA.
16. Ismail A, Bonner MR, Hendy OM, Lasarev M and **Khalid KM**. Longitudinal assessment of exposures, symptoms and neurobehavioral performance in Egyptian adolescent pesticide applicators. Poster Presentation at the 10th Anniversary Symposium for Brain Directors for the Brain Disorders in the Developing World: Research Across the Life Span (February 11-13, 2014), Bethesda, MD.
17. **Khan KM**, Rohlman DS et al. What's in my Dust? Communicating Research Findings to Agricultural Families. Podium Presentation at the 11<sup>th</sup> Annual Midwest Rural Agricultural Safety and Health Conference (November 14-16, 2012), Cedar Rapids, IA.
18. **Khan KM**, Galvin K, Moome, Rohlman DS et al. Associations of Homes Pesticide Residues with Child Behavior. Podium Presentation at the Oregon Academy of Science (OAS) (February

25, 2012), PCC Sylvania, Portland, OR.

19. **Khan KM**, Fuchs M, Rohlman DS et al. Evaluating Pesticide Exposure in Children Living in an Agricultural Community. Poster Presentation at the 21<sup>st</sup> Annual Western Migrant Stream Forum (WMSF) (February 15-17, 2012), Portland, OR.
20. **Khan KM**, Wasserman G, Factor-Litvak P, Liu X and Graziano J. Effects of Arsenic and Manganese on Classroom Behavior among the Elementary School Children. Poster Presentation at the Millennium Promise/ITREOH Network Meeting (October 21-22, 2010) Fogarty International Center, NIH, Bethesda, MD.

## **H. Funded Grants**

1. 1R01ES032149-01A1 09/14/21 to 06/30/26

### **NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIEHS) & FOGARTY INTERNATIONAL CENTER (FIC)**

*Total Amount: \$2,696,937*

#### **Role: Principal Investigator**

The research component of this five-year project aims to investigate a potential thyroid-dependent mechanism of metal mixture neurotoxicity using an adolescent cohort and a pregnancy cohort from two separate rural communities in Bangladesh. This project also aims to improve the brain health research capacity of Bangladeshi scientists by providing them in-country and in-US university training so that they can apply the skills in multiple epidemiological studies examining child and adolescent NB in the context of a thyroid hormone-dependent mechanism of metal mixture-induced neurotoxicity. Other key investigators: Parvez (Columbia University), Graziano (Columbia University), Rohlman (University of Iowa), Bick (U of Houston)

2. Office of Research and Sponsored Programs (ORSP) Pilot Grant 07/01/21 to 06/30/22

### **SAM HOUSTON STATE UNIVERSITY**

*Total Amount: \$14,968*

#### **Role: Principal Investigator**

The goal of the project is to generate preliminary data for external grant proposals on the effectiveness of hearing conservation education using smartphone technology for preventing noise-induced hearing loss among the adolescent farmers in rural Texas.

3. Center for Occupational Health and Safety Engineering (COHSE) 07/01/19 to 12/31/20

### **NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)**

*Total Amount: \$20,000*

#### **Role: Principal Investigator**

The goal of the project is to evaluate an educational intervention module consisting of two hearing conservation smartphone apps: a noise-measurement app developed by the National Institute for Occupational Safety and Health (NIOSH), and a hearing acuity self-screening app using a cohort of high school farmers exposed to loud noise in rural Indiana.



4. IU President's International Research Award (PIRA) 05/01/18-04/30/20

**INDIANA UNIVERSITY**

*Total Amount: \$100,000*

**Role: Principal Investigator**

The goal of the study is to develop an elementary school-based intervention to promote handwashing and safe water behavior among children and their families in New Delhi, India using participatory approaches. Additionally, the project will characterize antibiotic resistance properties of bacteria commonly associated with drinking water and hand contamination in low-income communities in New Delhi, India.

5. SPH Faculty Research Grant Program (FRGP) 01/01/17-12/31/18

**INDIANA UNIVERSITY SCHOOL OF PUBLIC HEALTH-BLOOMINGTON**

*Total Amount: \$20,000*

**Role: Principal Investigator**

The goal of this pilot study was to collect urine and blood samples from a subset of adolescents enrolled in an ongoing NIH-funded prospective study in Araihaazar, Bangladesh to examine associations between early life WAs exposure, serum thyroid biomarkers, neurodevelopmental outcomes and genetic polymorphisms in thyroid function genes.

6. IU Gateway Seeds Grant

**INDIANA UNIVERSITY**

*Total Amount: \$9,400*

**Role: Principal Investigator**

The goal of the workshop grant was to pilot test a South Asian version of public health workforce training program in New Delhi, India.

7. IU-SPH Pilot Grant for an International Project 04/01/16-12/31/16

**INDIANA UNIVERSITY SCHOOL OF PUBLIC HEALTH-BLOOMINGTON**

*Total Amount: \$6,500*

**Role: Principal Investigator**

The goal of this project was to leverage the strengths of an ongoing prospective study (PI: Dr. Rodrigo Armijos) in Quito, Ecuador for collecting preliminary data on neurobehavioral health outcomes from 180 mother-child pairs exposed to traffic-related air pollutants. \*One graduate student received travel support.

8. CRCAF 09/01/15 to 08/31/16

**IU-OVPR COLLABORATIVE RESEARCH AND CREATIVE ACTIVITY**

*Total Amount: \$20,000*

**Role: Principal Investigator**

The goal of the project was to collect data on the Interplay between Climate Change Adaptation,

Agrochemical Exposure, Governance and Public Health from farmers and community key informants living in rural Bangladesh. \*Two graduate students received support for participating in data analysis and report writing.

9. Research Partnership Development Grant (IU-SPH) 02/01/15 to 06/30/16

**INDIANA UNIVERSITY SCHOOL OF PUBLIC HEALTH-BLOOMINGTON**

*Total Amount: \$15,000*

**Role: Principal Investigator**

The goal of the pilot grant was to develop an acceptable intervention mechanism(s) for promoting hearing health in adults living in the rural and agricultural communities in Indiana through an accurate, validated hearing screening test, developed with funding from the National Institutes of Health. The project also established research collaboration between IU School of Public Health, Indiana Rural Health Association (IRHA) and Communication Disorders Technology, Inc. \*Two graduate students received support for participating in data analysis and report writing.

10. Mellon Foundation Workshop Grant 10/01/15 to 08/31/16

**THE ANDREW W. MELLON FOUNDATION**

*Total Amount: \$5,000*

**Role: Principal Investigator**

This workshop grant was provided to organize several public health workforce capacity building training and workshop in two academic and research institutions in Bangladesh.

11. Mellon Research Grant (Grant No. 00115453) 04/01/15 to 08/31/16

**THE ANDREW W. MELLON FOUNDATION & INDIANA UNIVERSITY**

*Total Amount: \$20,000*

**Role: Principal Investigator**

The goal of the Innovating International Research, Teaching, and Collaboration at Indiana University pilot project was to collect pilot data on agrochemical exposures and associated neurological health effects from adults living in agricultural communities in rural Bangladesh. \*One graduate student received support for participating in data analysis and report writing.

12. Great Plain Center Pilot Grant (**Grant No. 5 U54 OH007548-11**) 10/01/13 to 09/30/14

**CDC – NIOSH GREAT PLAIN CENTER FOR AGRICULTURAL HEALTH**

*Total Amount: \$15,000*

**Role: Principal Investigator**

The goal of this project was to develop and evaluate technology-based intervention to reduce loud noise exposure among adolescent agricultural workers in Iowa. Noise-measuring smartphone apps and cTRAIN computer training are compared with traditional classroom training to prevent noise exposure and hearing loss.

## **I. Major Grants In-Review or Unfunded (since joining SHSU)**

13. Health and Public Safety Workforce Resiliency Training Program 2021

### **HEALTH RESOURCES AND SERVICE ADMINISTRATION (HRSA)**

*Status: In-review*

*Amount Requested: \$1,019,007*

Role: Co-Investigator, Joshi (PI)

The proposed three-year project titled “Safety, Motivation, Assistance AND Resiliency Training (SMART) Program for health workforce in rural and underserved communities” will create skilled workforce in healthcare who can increase organizational efficacy, enhanced communication skills and address their mental health issues. Additionally, the project will aim to decrease burnout, substance abuse, suicidal tendencies and mental health issues among health and public safety workforce by implementing evidence-based and tailored interventions.

14. NIH SBIR APPLICATION 2021

### **NATIONAL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES (NIMHD)**

*Status: Unfunded*

*Amount Requested: \$228,330*

Role: Co-Investigator, Nodwell (PI)

The proposed study aims to design and develop a novel neuropsychological testing technology using a combination of web technologies, artificial intelligence elements, and digital devices that will also be capable of providing timely feedback and relevant health information to the test-taker and notifying their physician about the results. The outcomes of this project will be a technical proof of concept and the demonstration of the feasibility of a remote tool that can work in limited-resource settings in rural underserved populations for measuring and aggregating behavioral, self-report, built environment, and physiological data to assess visual processing, motor speed and coordination, and visual-motor integration. This is a collaborative project with an industry partner, IntegraShare, a Texas-based small software company.

15. NIH R21 2020

### **NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIEHS)**

*Status: Unfunded*

*Amount Requested: \$445,782*

Role: Principal Investigator

The proposed study will utilize a cohort of 6-10 year old children to characterize early life mineral patterns at in utero, early infancy, and early childhood via measurements of mineral patterns in deciduous teeth, which contain a record of past exposures.

16. Jacobs Foundation Research Fellowship 2018

### **JACOBS FOUNDATION**

*Status: Unfunded*

*Amount Requested: \$150,000*

Role: Principal Investigator

The aim of the proposed study was to examine the relationships between early life arsenic exposure, endocrine disruption, and brain function impairment in childhood.

17. Science to Achieve Results (STAR) Program 2017

**US ENVIRONMENTAL PROTECTION AGENCY (EPA)**

*Status: Unfunded*

*Amount Requested: \$799,990*

Role: Co- Principal Investigator

The objective of this project was to employ latent class analysis to characterize multiple chemical and nonchemical stressors associated with children’s neurodevelopment.

18. REACH Catalyst Grant 2016

**UK DEPARTMENT OF INTERNATIONAL DEVELOPMENT (DFID)**

*Status: Unfunded*

*Amount Requested: \$64,000*

Role: Co- Principal Investigator

The aim of the proposed study was to examine the association of water salinity with hypertension, renal function, and skin diseases in women and children in coast Bangladesh and investigate the cost efficiency of salinity mitigation approaches.

**III. SERVICE**

**Sam Houston State University (SHSU), 2020-2021**

SHSU (UNIVERSITY SERVICE)

1. Member (Alternate), The Institutional Review Board 2021-present

COLLEGE of HEALTH SCIENCES (COHS)/ COLLEGE of OSTEOPATHIC MEDICINE (COM)

2. Mentor, Mentoring Teams for Excellence (MTE) Program, College of Health Sciences (COHS) 2021-present
3. Member, Faculty Search Committee, Population Health, College of Health Sciences (COHS) 2021-present
4. Member/Interviewer, Admission Committee, College of Osteopathic Medicine (COM) 2021-present

DEPARTMENT of POPULATION HEALTH

1. Member, Curriculum Committee Member –*Population Health* 2021-present
2. Member, Academic Integrity Committee –*Population Health* 2021-present

## **Indiana University Bloomington, 2014-2020**

### DEPARTMENT of ENVIRONMENTAL AND OCCUPATIONAL HEALTH (EOH)

3. Hiring Committee Member–*EOH tenured-track faculty* 2018-2020
4. EOH Student Recruitment Committee–*Development of strategies* 2017-2020
5. EOH Department Monthly Seminar–*Organizer* 2016- 2017
6. Committee Member –*EOH Strategic Planning* 2016–2017

### SCHOOL of PUBLIC HEALTH-BLOOMINGTON (SPHB)

7. Committee Member – *Marian Godeke Miller Fellowship* 2014 – 2016
8. Committee Member – *Community Engagement (AC Subcommittee)* 2018 – 2020
9. Committee Member – *Dr.PH. Program Review and Evaluation* 2018 – 2020
10. Committee Member – *Student Affairs (AC Subcommittee)* 2017 – 2020
11. Committee Member – *SPH Vision Committee* 2015 – 2016
12. Committee Member – *SPHB Academic Council (AC)* 2014 – 2017
13. Committee Member – *SPHB Alumni Award* 2014 – 2016

### UNIVERSITY and CAMPUS

14. Grant Reviewer – *Indiana CTSI Interinstitutional Collaborative Grant* 2018
15. Committee Member – *Dhar India Studies Academic Program* 2018-2020
16. Committee Member – *Dhar India Studies Travel Scholarship* 2017-2020
17. Committee Member – *Dhar India Studies Promotion of Non-tenured Track Faculty* 2017-2020
18. Committee Member - *Campus Wide Global Health Curriculum Development with SGIS and SPEA Faculty* 2016-2017
19. Committee Member – *Advisory Board CHeP, Indiana CTSI* 2016-2020
20. University Marshal – *IU Graduate/Undergraduate Ceremonies* 2016-2020
21. Committee Member – *Dhar India Studies Program Review* 2015-2020
22. Committee Member – *Mellon Dissertation Fellowship* 2015-2016

### INTERNATIONAL

23. Panel Speaker – *Environmental Pollution Panel Host: Counterpart International (an international NGO in the U.S.), March 10, 2021* 2021
24. Project Lead – *Online Public Health Short-Courses for Public Health Workforce in India (Training program development)* 2018-2020
25. Project Lead – *Online Public Health Short-Courses for Public Health Workforce in Bangladesh* 2016-2017

### PROFESSIONAL SERVICE (at SHSU and Indiana University Bloomington)

1. Program Advisory Committee Member and Judge for Student Posters, Lancet-CUGH Best Student poster contest at CUGH 2021 2021
2. Fellowship Application Reviewer – *CUGH and PHI/CDC Global Health Fellowship application Review Committee Member* 2020
3. Grant Reviewer – *President’s International Research Award (PIRA)* 2019  
An international research grant initiative from IU President’s Office
4. Grant Reviewer – *Collaboration in Translational Research (CTR) Proposals* 2018  
Indiana Clinical and Translational Science Institute (CTSI)
5. Grant Reviewer – *US National Academy of Science U.S. Science and Technology (S&T) Cooperation Program – Environmental Health (Water) Panel* 2017

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| 6. Journal Reviewer – <i>Neurotoxicology</i>                                   | 2016-2021 |
| 7. Journal Reviewer – BMC Public Health  | 2017-2020 |
| 8. Journal Reviewer – <i>PLoS ONE</i>  | 2016-2020 |
| 9. Journal Reviewer – <i>Environmental Pollution</i>                           | 2016-2020 |
| 10. Journal Reviewer – <i>Environmental Monitoring and Assessment</i>          | 2016-2020 |
| 11. Journal Reviewer – <i>Journal of Environmental Health</i>                  | 2013-2020 |
| 12. Journal Reviewer – <i>Desalination and Water Treatment</i>                 | 2013-2020 |
| 13. Journal Reviewer – <i>Journal of Environmental and Occupational Health</i> | 2012-2020 |

**ENGAGEMENT with NON-ACADEMIC COMMUNITIES and AGENCIES**

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|--|-----------|
| 1. Community Engagement Partnership – <i>Indiana Rural Health Association</i>              | 2016-2017 |
| 2. Community Engagement Partnership – <i>Communication Disorders Technology, Inc (CDT)</i> | 2015-2020 |

**PROFESSIONAL DEVELOPMENT (at SHSU and Indiana University Bloomington)**

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|--|------|
| 1. Texas State University System Faculty Development Day for Digital Education   | 2021 |
| 2. Online Course Redesign and Faculty Certification Program at SHSU  | 2020 |
| 3. Faculty Research Development Institute (FRDI) Workshop  | 2019 |
| 4. NIEHS Environmental Health & Community Engaged Research Workshop<br>Indiana University Purdue University Indianapolis (IUPUI) | 2018 |
| 5. National Center for Faculty Development & Diversity – “Bootcamp”<br>Indiana University – Bloomington                          | 2017 |
| 6. Faculty Hiring Workshop Indiana University – Bloomington  | 2016 |
| 7. Proposal Development Workshop for NIH/NSF Application, Indiana University –<br>Bloomington                                    | 2016 |