Ubydul Haque, Ph.D.

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PERSONAL STATEMENT

Although I am trained as a spatial epidemiologist, I consider my background to be multi-disciplinary and I have a considerable research interest in the impact of climate change on human health. More specifically, my research focuses on the spatial epidemiology of infectious diseases in different transmission settings. My most important research accomplishments relate to my innovative use of novel Machine Learning (ML) algorithms, as well as geospatial data science, to study the impact of microclimate and urban heat islands on the risk factors for public health. My basic understanding of spatial epidemiology and my considerable collaborative efforts with colleagues across the globe have allowed me to adapt diverse spatial tools to pursue questions about the spatial drivers of the epidemiology of emerging and reemerging infectious diseases. In terms of global health, I am identifying the determinants of changes in dengue prevalence at the individual and household levels in different transmission settings by using explainable AI and ML to examine metrics of the biophysical environment, changes in dengue serotypes, and social changes. I am also engaged in community-based research through citizen scientists and assisting multi-disciplinary initiatives to reduce health disparities and advance health equity in the U.S. Further, I am committed to developing knowledge and methodology to predict the potential effects of climate and multi-triggered landslides on societal risk, and building community and infrastructure resilience by enhancing absorption, recovery, and adaptation capacities of at-risk communities. Ultimately, I seek to improve the health and welfare of communities affected by geospatial and climate factors, so that necessary adaptations can be made in response to swift and uncontrollable climate changes.

Websites: https://www.unthsc.edu/school-of-public-health/dr-ubydul-haque/
http://scholar.google.com/citations?user=6FABa6wAAAAJ&hl=en (H-index 33, M-index 2.91)

EDUCATION AND TRAINING

April 2012 - July 2014	Post Doctoral fellow Johns Hopkins University Baltimore, USA
August 2011 - March 2012	Guest Ph.D. student Norwegian University of Life Sciences Ås, Norway
April 2009 - March 2012	Doctor of Philosophy: Climate Change and Health Department of International Health Nagasaki University

	Nagasaki, Japan
June - July 2011	Epidemiology & Global Health (15 ECT) University of Dundee Dundee, UK
August 2010	Short training, Spatial Statistics Environmental Systems Research Institute California, USA
August 2009	Short training, Bayesian modeling University of Queensland Brisbane, Australia
July 2009	Summer course (10 ECT), Mixed method research Bergen University Bergen, Norway
2005 - 2007	MSc, Geoinformatics Royal Institute of Technology Stockholm, Sweden
1999 - 2004	Bachelor of Urban and Rural Planning Khulna University Khulna, Bangladesh

PROFESSIONAL EXPERIENCE

2018 - Present	Assistant Professor (tenure-track) Department of Biostatistics and Epidemiology University of North Texas Health Science Center Fort Worth, Texas, USA
2017 - 2018	Assistant Professor (tenure-track) Department of Public Health & Prevention Sciences Baldwin Wallace University Berea, USA
2018 - Present	Visiting Associate Professor Department of International Health Nagasaki University Nagasaki, Japan
September 2016 - June 2017	Research Associate

	National Center for Atmospheric Research Boulder, Colorado, USA
August 2014 - August 2016	Research associate Department of Geography & Emerging Pathogens Institute University of Florida Gainesville, Florida, USA
January 2009 - March 2010	Research Investigator ICDDR, B Dhaka, Bangladesh
2004 - 2008	Senior Research Assistant ICDDR, B Dhaka, Bangladesh

HONORS AND AWARDS

2015	Travel award, IGU 2015 regional conference Moscow, Russia
2015	Travel award, Targeting Ebola conference, Paris, France
2015	Travel Award, Tropical Infectious Diseases Gordon Research Seminar, Challenges, Opportunities, and Successes. Galveston, Texas, USA
2014	Travel Award, ISPRS Foundation, Hyderabad, India
2014	Johns Hopkins Libraries Open Access Promotion Fund
2013	Travel Award, 6th MIM Pan-African Malaria Conference Durban, South Africa
2013	NASA Meeting Travel Fellowship, the 2nd Symposium on Advances in Geospatial Technologies, Arlington, Virginia, USA
2012	Excellence in Peer Review, Acta Tropica
2012	Post-Doctoral fellowship, A. Ralph and Sylvia E. Barr Fellowship Johns Hopkins University, USA
2011	Best paper award, Nagasaki University, Japan
2011	Young guest and doctoral researchers' annual scholarships for Investigation and learning (Yggdrasil), The Research Council of Norway
2011	Travel award, ISSRM Malaysia Conference, Institute of Tropical Medicine, Nagasaki University, Japan
2011	Summer School, Department of Epidemiology & Global Health

	University of Dundee, UK
2010	Best paper award, Nagasaki University, Japan
2010	Travel award, 20th IUHPE World Conference on Health Promotion Geneva, Switzerland
2009	Doctoral fellowship, Global Center for Excellence Nagasaki University, Japan
2009	Global development challenges, climate change Bergen University, Norway
2008	New Researcher Award, ICDDR, B, Dhaka, Bangladesh

RESEARCH SUPPORT (*PEER REVIEWED GRANT*)

Current funding

Project Title: Effects of climate change and variability on community vulnerability and exposure to dengue in South East Asia
Funding Source: The Research Council of Norway
Role: PI in US part, $1.2 million
Start Date: 08.01.2018
End Date: 08.31.2022

Completed funded research protocol

Project Title: The role of deforestation and climate change in the spread of malaria in Bangladesh.
Funding Source: ICDDR, B (New Researcher Award)
Role: PI (funding amount, $73,500)
Start Date: 01.01.2009
End Date: 12.30.2012

Project Title: Modeling of malaria risk using hydrological, topographic, and climatic variables in Bangladesh.
Funding Source: The Research Council of Norway
Role: PI (funding amount, $30,000)
Start Date: 08.01.2011
End Date: 04.30.2012

PEER-REVIEWED PUBLICATIONS

Publication summary and metrics

	First author	Last author	Co-author	Total	Impact factor
The Lancet Global Health	1			1	38.92
The Lancet Infectious Dis		1		1	71.42
Travel Medicine & Inf. Dis.		1		1	20.44
PLoS Medicine			1	1	11.07

Environment International			1	1	13.35
Science of the Total Env.	1	1		2	10.75
Int. J. of Epidemiology		1		1	9.68
Sus. Cities and Society		1		1	10.69
WHO Bulletin	1			1	9.41
Landslide	1			1	6.6
Environmental Research		1	1	2	8.43
Scientific Report		1	1	2	4.99
PLoS Negl Trop Dis			2	2	4.52
One Health		1		1	9
Int. J. of Infectious Diseases		1		1	12.07
PLoS One	3		1	4	3.58
Reg Environ Change		1		1	4.70
Int J Env Res Public Health		2	3	5	4.61
Malaria Journal	5	4	6	15	2.88
Trans R Soc Trop Med Hyg		3		3	2.45
Am. J. Trop. Med. Hyg	1	2	3	6	3.08
Other journals	6	13	18	36	
Total	**19**	**34**	**37**	**90**	

Peer-reviewed publications (* = Corresponding author, Ⅱ = Student's paper, ¶ = Joint first author, ‡ = Joint senior author). 19 first author, and 34 senior author papers, 24 of them led by my students (through mentorship).

90. **Ubydul Haque**, Amna Naeem, Shanshan Wang, Irina Holovanova, Taras Gutor, Dimitry Bazyka, Rebeca Galindo, Sadikshya Sharma, Igor P Kaidashev, Ivanna Dronyuk, Dmytro Chumachenko, Svyatoslav Linnikov, Esther Annan, Natalya Korol, Kostyantyn Bazyka, Liliia Zhyvotovska, Alla Kotvitska, Andriy Zimenkovsky, Uyen-Sa D. T. Nguyen. **The human and healthcare toll of the Russia-Ukraine War: The first 150 days.** BMJ Global Health (Accepted).

89. Esther Annan, Jinghui Guo, Aracely Angulo-Molina, Uyen-Sa DT Nguyen, Wan Fairos Wan Yaacob, Sare İlknur Yavaşoglu, Kevin Bardosh, Nasrin Aghamohammadi, Nazri Che Dom, Bingxin Zhao, Uriel A. Lopez-Lemus, Latif Khan, **Ubydul Haque**. **Community readiness using technologies for dengue fever surveillance in three ecological settings.** Travel Medicine and Infectious Disease. V. 49, September–October 2022, 102360.

88. Mahdi Baghbanzadeh, Madison Smith, Jurgen Pilz, Sohel Rahman, Ajlina Karamehic-Muratovic, Ashvita Grag, Esther Annan, Uyen-Sa D T Nguyen, Nathan Schedler, Rajesh Nandy, **Ubydul Haque**. **Country-level Governance Indicators as Predictors of COVID-19 Morbidity, Mortality, and Vaccination Coverage: An Exploratory Global Analysis**. Am J Trop Med Hyg. (Accepted).

87. Bo Dong, Latifur Khan, Madison Smith, Jesus Trevino, Bingxin Zhao, Gabriel L. Hamer, Alex Lemus, Aracely Angulo Molina, Jailos Lubinda, **Ubydul Haque**. **Spatio-temporal dynamics of Dengue, Chikungunya, and Zika Viruses in Mexico: A potential co-circulation problem**. Communications Medicine. (Accepted).

86. Jailos Lubinda, Yaxin Bi, **Ubydul Haque**, Mukuma Lubinda, Busiku Hamainza, Adrian J. Moore. **Spatio-temporal monitoring of health facility-level malaria trends in Zambia and adaptive scaling for operational intervention.** *Commun Med* 2, 79 (2022).

85. Esther Annan, Aracely Angulo-Molina, Wan Fairos Wan Yaacob, Nolan Kline, Uriel A. Lopez-Lemus, and **Ubydul Haque**. **Determining perceived self-efficacy for preventing dengue fever in two climatically diverse Mexican states: a cross-sectional study.** Behav Sci. 2022, 12(4), 94.

84. M.S. Rahman, Chamsai Pientong, Sumaira Zafar, Tipaya Ekalaksananan, Richard E. Paul, **Ubydul Haque**, Joacim Rocklöv, Hans J. Overgaard. **Mapping the spatial distribution of the dengue vector *Aedes aegypti* and predicting its abundance in northeastern Thailand using a machine-learning approach**. One Health. Volume 13, December 2021, 100358.

83. Ulvi, O.; Karamehic-Muratovic, A.; Baghbanzadeh, M.; Bashir, A.; Smith, J.; **Haque, U**. **Social media use and mental health: a global analysis.** *Epidemiologia 2022, 3(1), 11-25*.

82. Mohammad Tawhidul Hasan Bhuiyan, Irtesam Mahmud Khan, Sheikh Saifur Rahman Jony, Renee Robinson, Uyen-sa Nguyen, David J. Keelings, M Sohel Rahman, **Ubydul Haque**. **The disproportionate impact of COVID-19 among undocumented immigrants and ethnic minorities in the US**. Int. J. Environ. Res. Public Health 2021, 18(23), 12708.

81. Sherry Mangla, Fatima Tuz Zohra Makkia, Ashok Pathak, Renee Robinson, Nargis Sultana, Koonisetty Kranthi Swaroop, Ajlina Karamehic Muratovic, Uyen-sa Nguyen, Alfonso Javier Rodriguez-Morales, Jorge A. Sanchez-Duque, Patrick T. Zamba, Nasrin Aghamohammadi, Fong CS, **Ubydul Haque**. **COVID-19 Vaccine Hesitancy and Emerging Variants: Evidence from Six Countries.** Behav Sci. 2021, 11, 148.

80. Zafar S, Shipin O, Paul RE, Rocklöv J, **Haque U**, Rahman MS, Mayxay M, Pientong C, Aromseree S, Poolphol P, Pongvongsa T, Vannavong N, Overgaard HJ. **Development and comparison of dengue vulnerability indices using GIS-based multi-criteria decision analysis in Lao PDR and Thailand**. Int J Environ Res Public Health. 2021 Sep 6;18(17):9421.

79. Koonisetty K.S, Aghamohammadi, N., Urmi, T., Yavaşoglu, S.I., Rahman, M.S., Nandy, R., **Haque, U**. **Assessment of knowledge, attitudes, and practices regarding dengue among physicians: A web-based cross-sectional survey**. Behav Sci. 2021 Aug; 11(8): 105.

78. Jony, S.S.R, **Haque U**., Webb, N.J., Spence, E., Rahman, M.S., Aghamohammadi, N., Lie, Y., Angulo-Molina, A., Ananth, S., Ren, X., Kawachi, N., Ito, H., Ulvi, O., Lubinda, J., Karamehic-Muratovic, A., Maher, W., Ali, P., Rahman, M.S. **Analyzing predictors of control measures and psychosocial problems associated with COVID-19 pandemic: Evidence from Eight Countries**. Behav Sci. 2021 Aug; 11(8): 106.

77. Md. Siddikur Rahman, Tipaya Ekalaksananan, Sumaira Zafar, Petchaboon Poolphol, Oleg Shipin, **Ubydul Haque**, Richard Paul, Joacim Rocklöv, Chamsai Pientong, Hans J. Overgaard. **Ecological, social and other environmental determinants of dengue vector abundance in urban and rural areas of northeastern Thailand**. Int. J. Environ. Res. Public Health 2021, 18(11), 5971.

76. Nasrin Aghamohammadi, Chng Saun Fong, Muniratul Husna, Logaraj Ramakreshnan, **Ubydul Haque**. **Outdoor thermal comfort and somatic symptoms among students in a tropical city**. Sustainable Cities and Society. Vol. 72, September 2021, 103015.

75. Alfonso J Rodriguez-Morales, et. al. **Specialty Grand Challenge: The Constant Threat of Zoonotic and Vector-borne Emerging Tropical Diseases, Living on the Edge**. Front. Trop. Dis. 2:676905.

74. Rahman MB, Salam R, I ARMT, Tasnuva A, **Haque U**, Shahid S, Hu Z. **Appraising the historical and projected spatiotemporal changes in heat index in Bangladesh**. Theoretical and Applied Climatology, 146, pages125–138 (2021).

73. Marium Begum, Osman Ulvi, Ajlina Karamehic-Muratovic, Mallory R. Walsh, Hasan Tarek, Jailos Lubinda, Alfonso Rodriguez, Shahzad Sarfraz, Jesús A. Treviño C, Muhammad Yousaf Shad, **Ubydul Haque**. **Quantifying media effects, its content, and role in promoting community awareness of the Chikungunya epidemic in Bangladesh.** Epidemiologia 2021, 2 (1), 84-94.

72. Zabihollah Charrahy, Mohammad Reza Yaghoobi-Ershadi, Mohammad Reza Shirzadi, Amir Ahmad Akhavan, Yavar Rassi, Seyedeh Zohreh Hosseini, **Ubydul Haque**, Faramarz Bozorg Omid, Ahmad Ali Hanafi-Bojd. **Climate change and its effect on the vulnerability to zoonotic cutaneous leishmaniasis in Iran.** Transbound Emerg Dis. 2021 Apr 20.

71. Jailos Lubinda, Yaxin Bi, Busiku Hamainza, **Ubydul Haque**, Adrian J. Moore. **Spatio-temporal monitoring of health facility level malaria trends and adaptive scaling for operational intervention planning**. Communications Medicine (Accepted).

70. Jailos Lubinda, Yaxin Bi, Busiku Hamainza, **Ubydul Haque**, Adrian J. Moore. **Modeling of Malaria Risk, Rates, and Trends: A Spatiotemporal approach for identifying and targeting sub-national Areas of High and Low Burden**. PLoS Comput Biol. 2021 Mar 1;17(3):e1008669.

69. Sherry Mangla, Ashok Kumar Pathak, Mohd. Arshad, **Ubydul Haque**. **Short-term Forecasting of the COVID-19 Outbreak in India**. Int Health. 2021 Jun 5: ihab031.

68. Jailos Lubinda, **Ubydul Haque**, Yaxin Bi, Busiku Hamainza, & Adrian J. Moore. **Near-term climate change impacts on sub-national malaria transmission**. Sci Rep. 2021 Jan 12;11(1):751.

67. Md. Siddikur Rahman, Parveen Ali, Miftahuzzannat Amrin, Arman Hossain Chowdhury, Md. Selim Mondol, **Ubydul Haque**, Ajlina Karamehic-Muratovic. **COVID-19 in Bangladesh among rural and urban residents: An online survey of knowledge, attitudes, practices, and psychological aspects**. Epidemiologia 2021, 2(1), 1-13.

66. Dyna Doum, Hans J. Overgaard, Mayfong Mayxay, Sutas Suttiprapa, Prasert Saichua, Tipaya Ekalaksananan, Panwad Tongchai, Md. Siddikur Rahman, **Ubydul Haque**, Sysavanh Phommachanh, Tiengkham Pongvongsa, Joacim Rocklöv, Richard Paul, Chamsai Pientong. **Dengue seroprevalence and seroconversion in urban and rural populations in northeastern Thailand and southern Laos.** Int J Environ Res Public Health. 2020 Dec 7;17(23):9134.

65. Siddikur Rahman, Hans J. Overgaard, Chamsai Pientong, Mayfong Mayxay, Tipaya Ekalaksananan, Sirinart Aromseree, Supranee Phanthanawiboon, Sumaira Zafar, Oleg Shipin, Richard E Paul,

Sysavanh Phommachanh, Tiengkham Pongvongsa, Nanthasane Vannavong, **Ubydul Haque**Ⅱ. **Knowledge, Attitudes, and Practices on Climate Change and Dengue in Lao People's Democratic Republic and Thailand.** Environ Res. 2020 Nov 24; 110509.

64. Jailos Lubinda, **Ubydul Haque**; Yaxin Bi; Muhammad Yousaf Shad; David Keellings; Busiku Hamaiza; Adrian J. Moore. **Climate change and the dynamics of age-related malaria incidence in Southern Africa: A focus on Zambia**. Environ Res. 2021 Mar 22;197:111017.

63. Sushmitha Ananth, Nistha Shrestha, Jesús A. Treviño C, Uyen-sa Nguyen, **Ubydul Haque**, Aracely Angulo-Molina, Alex Lemus, Jailos Lubinda, Rashed Md. Sharif, Rafdzah Ahmad Zaki, Rosa María Sánchez Casas, Diana Cervantes, Rajesh Nandy. **Clinical Symptoms of arboviruses in Mexico**. Pathogens 2020, 9, 964.

62. Irtesam Mahmud Khan, **Ubydul Haque**, Samiha Kaisar, M. Sohel Rahman. **A computational modeling study of COVID-19 in Bangladesh.** Am J Trop Med Hyg. 2020 Nov 2.

61. Nistha Shrestha, Muhammad Yousaf Shad, Osman Ulvi, Modasser Hossain Khan, Ajlina Karamehic-Muratovic, Uyen-Sa D.T. Nguyen, Mahdi Baghbanzadeh, Robert Wardrup, Nasrin Aghamohammadi, Diana Cervantes, Kh. Md Nahid Uzzaman, Rafdzah Ahmed Zaki, **Ubydul Haque**Ⅱ. **The impact of COVID-19 on globalization**. One Health. 2020 Oct 13;100180.

60. Rahman, M.S., Baghbanzadeh, M., Karamehic-Muratovic, A., Amrin, M., Zafar, S., Rahman, N.N., Shirina, S.U., **Haque, U**Ⅱ. **Climate change and dengue fever knowledge, attitudes, and practices among university students in Bangladesh: A Facebook-based cross-sectional survey.** Trans R Soc Trop Med Hyg. 2020 Sep 15; traa093.

59. IM Khan, **U Haque**, W Zhang, S Zafar, Y Wang, J He, H Sun, MS Rahman. **COVID-19 in China: Risk Factors and R0 Revisited.** Acta Trop. 2021 Jan; 213: 105731.

58. MS Rahman, NC Peeri, N Shrestha, R Zaki, **U Haque**, SH Ab Hamid. **Defending against the Novel Coronavirus (COVID-19) Outbreak: How Can the Internet of Things (IoT) help to save the World?** Health Policy Technol. 2020 Apr 22.

57. Peeri NC, Shrestha N, Rahman S, Zaki R, Tan Z, Bibi S, Baghbanzadeh M, Aghamohammadi N, Zhang W and **Haque U**Ⅱ. **The SARS, MERS, and novel coronavirus (COVID-19) epidemics, the newest and biggest global health threats: what lessons have we learned?** International Journal of Epidemiology, 2020, dyaa033.

56. Baghbanzadeh M, Kumar D, Yavasoglu SI, Manning S, Hanafi-Bojd AA, Ghasemzadeh H, Sikder I, Kumar D, Murmu N, **Haque U**Ⅱ. **Malaria epidemics in India: Role of climatic condition and control measures**. Science of The Total Environment 712, (2020), 136368.

55. Salim, NAMS., Wah, YB., Reeves, C., Yaacob, WFWY., Mudin, RN., Dapari, R., Sapri, NNFS., **Haque, U**. **Prediction of dengue outbreak in Selangor Malaysia using machine learning techniques**Ⅱ. Sci Rep. 2021 Jan 13;11(1):939.

54. Selam Mihreteab, Jailos Lubinda, Bingxin Zhao, Alfonso J. Rodriguez-Morales, Ajlina Karamehic-Muratovic, Aman Goitom, Muhammad Yousaf Shad, and **Ubydul Haque**. **Retrospective data analyses of**

social and environmental determinants of malaria control for elimination prospects in Eritrea. Parasit Vectors. 2020 Mar 12;13 (1):126.

53. Jailos Lubinda, Jesús A. Treviño C., Mallory Rose Walsh, Adrian Moore, A.A. Hanafi-Bojd, Seval Akgun, Bingxin Zhao, Allison Barro, Marium Begum, Hera Jamal, **Ubydul Haque**Ⅱ. **Modeling the environmental suitability for *Aedes aegyti* and *Aedes albopictus* in Mexico**. Parasite Epidemiology and Control, 12 August 2019, e00116.

52. Thipruethai Phanitchat, Bingxin Zhao; **Ubydul Haque**; Chamsai Pientong; Tipaya Ekalaksananan; Sirinart Aromseree; Kesorn Thaewnongiew; Benedicte Fustec; Michael J. Bangs; Neal Alexander; Hans J. Overgaard. **Spatial and temporal patterns of dengue in northeastern Thailand 2006-2016.** BMC Infect Dis. 2019 Aug 23;19(1):743.

51. **Haque U**, da Silva PF, Devoli G, Pilz J, Zhao B, Khaloua A, Wilopo W, Andersen P, Lu P, Lee J, Yamamoto T, Keellings D, Wu JH, Glass GE. **The human cost of global warming: deadly landslides and their triggers (1995–2014)**. Science of the Total Environment 682 (2019) 673–684

50. Hector Ramses, Ramírez Navarro, Peter Polesnak, Julio Roberto Reyes-Leyva, **Ubydul Haque**, Juan Carlos Vazquez-Chagoyán, Martin Pedroza-Montero, Miguel Mendez-Rojas, and Aracely Angulo-Molina. **Magnetic Immunoconjugate Nanoplatform for Easy Colorimetric Detection of NS1 Protein of Dengue Virus in Infected Serum.** Nanoscale Adv., 2020.

49. Pesevski Igor, Milorad Jovanovski, Biljana Abolmasov, Jovan Papic, Uroš Đurić, Miloš Marjanović, **Ubydul Haque**, and Natasha Nedelkovska. **Preliminary regional landslide susceptibility assessment by using a limited amount of data.** *Geologia Croatica*, 2018, 71/3, 135 – 146.

48. Caleb Zinn, Rachel Bailey, Noah Barkley, Ashlen Hynes, Tameka Coleman, Gordana Savic, Kacie Soltis, Sharmika Primm, **Ubydul Haque**Ⅱ. **Can water treatment technologies contribute to improving global health?** *J Public Health Emerg* 2018; 2:25.

47. Jacob Smith, Swagata Banik, **Ubydul Haque**Ⅱ. **Catastrophic Hurricanes and Public Health Dangers: Lessons Learned**. *J Public Health Emerg* 2018; 2:7.

46. Emmanuel Chanda, Korine Kolivras, Wenyi Zhang, Josephine Namboze, Andreas H Angula, Khoti Gausi, Pentrina Uusiku, Desta Tiruneh, Quazi M Islam, **Ubydul Haque**. **Assessment of malaria epidemics and response in Kavango and Zambezi regions of Namibia.** Trans R Soc Trop Med Hyg 2018; 00: 1–9.

45. Hamzah Hasyim, Afi Nursafingi, **Ubydul Haque**, Meredian Alam, Doreen Montag, David Groneberg, Meghnath Dhimal, Ulrich Kuch, Ruth Müller. **Spatial Modelling of Malaria Incidence in South Sumatra, Indonesia.** *Malaria Journal* 2018, 17:87.

44. Dhimal M, Dahal S, Dhimal ML, Mishra SR, Karki KB, Aryal KK, **Haque U** et al. **Threats of Zika Virus Transmission for Asia and its Hindu-Kush Himalayan Region.** Infectious Diseases of Poverty (2018) 7:40.

43. Iqbal Kabir; Megnath Dhimal; Ruth Müller; Swagata Banik; **Ubydul Haque**. **The Dhaka Chikungunya outbreak in 2017 turns an epidemic in Bangladesh**. Lancet Infectious Disease, 17 (11), p1118, 2017.

42. Johnson TL¶, **Haque U¶** et al. **Modeling the environmental suitability for *Aedes aegypti* and *Aedes albopictus* in the contiguous United States.** J Med Entomol. 2017; 54 (6):1605-1614.

41. **Ubydul Haque**, Paula F. da Silva, Juneseok Lee, Susanne Benz, Mateja Jemec Auflič, Philipp Blum. **Increasing fatal landslides in Europe**. Springer International Publishing AG 2017.

40. Abdulmumini Usman, Araia Berhane, Yohannes Ghebrat, Goitom Mebrahtu, Azmera Gebresellasie, Assefash Zehaie, **Ubydul Haque**‡, Emmanuel Chanda‡. **Dengue fever outbreaks in Eritrea, 2005-2015: a case for strengthening control, surveillance and reporting**. Global Health Research and Policy, (2016) 1:17.

39. Yi-Cheng Wu, Quan Qian, Ricardo J. Soares Magalhaes, Zhi-Hai Han, Wen-Biao Hu, **Ubydul Haque**, Thomas A. Weppelmann, Yun-Xi Liu, Gregory E. Glass, Yan-Song Sun, Wen-Yi Zhang, Shen-Long Li. **Spatiotemporal Analysis of Scrub Typhus in China, 2006-2014**. PLoS Negl Trop Dis 10(8): e0004875.

38. **Ubydul Haque**, Jacob D Ball, Wenyi Zhang, Mobarak Hossain Khan, Jesús A. Treviño C. **Clinical and spatial features of Zika virus in Mexico**. Acta Tropica 162 (2016) 5–10.

37. Rodrıguez-Morales AJ, Granados-A´ lvarez S, Escudero-Quintero H, Vera-Polania F, Mondragon-Cardona A, D´ıaz-Quijano FA, Sosa-Valencia L, Lozada-Riascos CO, Escobedo AA, Liseth O, **Ubydul Haque**. **Estimating and mapping the incidence of giardiasis in Colombia, 2009-2013**, Int J Infect Dis. 2016 Aug;49:204-9.

36. Alfonso J. Rodriguez-Morales, **Ubydul Haque**, Carlos Julian García-Loaiza, Maria Leonor Galindo-Marquez, Juan Alejandro Sabogal-Roman, Santiago Marin-Loaiza, Andrés Felipe Ayala, Carlos O. Lozada-Riascos, Fredi A. Diaz-Quijano, Jorge L. Alvarado-Socarras. **Spatial distribution of Zika virus infection in Northeastern Colombia during 2015-2016 epidemics**. *Le Infezioni in Medicina, n. 3, 241-246, 2017*.

35. Thomas A. Weppelmann, Bangure Donewell, **Ubydul Haque**, Luke Bawo, Mutaawe Lubogo, Lucas Godbless, Sasita Shabani, Justin Maeda, Herilinda Temba, Theophil C Malibiche, Naod Berhanu, Wenyi Zhang. **Determinants of patient survival during the 2014 Ebola virus disease outbreak in Bong County, Liberia.** *Global Health Research and Policy* (2016) 1:5.

34. **Ubydul Haque**, Philipp Blum, Paula F. da Silva, Peter Andersen, Jürgen Pilz, Sergey R. Chalov, Jean-Philippe Malet, Mateja Jemec Auflič, Norina Andres, Eleftheria Poyiadji, Pedro C. Lamas, Wenyi Zhang, Igor Peshevski, Halldór G. Pétursson, Tayfun Kurt, Nikolai Dobrev, Juan Carlos García-Davalillo, Matina Halkia, Stefano Ferri, George Gaprindashvili, Johanna Engström, David Keellings. **Fatal landslides in Europe.** *Landslide*, 13(6), 1545-1554.

33. Simon Chihanga¶, **Ubydul Haque¶**, Emmanuel Chanda, Tjantilili Mosweunyane, Kense Moakofhi, Haruna Baba Jibril, Mpho Motlaleng, Wenyi Zhang, Gregory E. Glass. **Malaria elimination in Botswana, 2012–2014: achievements and challenges**. *Parasites & Vectors* 2016, 9:99.

32. Yicheng Wu, Quan Qian, Ricardo J. Soares Magalhaes, Zhihai Han, **Ubydul Haque**, Thomas A. Weppelmann, Wen-Biao Hu, Yun-Xi Liu, Yan-Song Sun, Wen-Yi Zhang, Shen-Long Li. **Rapid Increase in Scrub Typhus incidence in China, 2006-2014: Results From Epidemiological Analysis**. *Am. J. Trop. Med. Hyg*., 94(3), 2016, pp. 532–536.

31. Wong JY, Zhang W, Kargbo D, **Haque U**, Hu W, Wu P, Kamara A, Chen Y, Kargbo B, Glass GE, Yang R, Cowling BJ and Liu C. **Assessment of the severity of Ebola virus disease in Sierra Leone in 2014–2015.** *Epidemiol. Infect*., 2015.

30. Denis Valle, Joanna M Tucker-Lima, Justin Millar, Punam Amratia, **Ubydul Haque**. **Parameter estimation bias in logistic regression due to imperfect diagnostic results and practical correction approaches**. *Malaria Journal* 2015, **14**:434.

29. Mulakwa Kamuliwo, Karen E Kirk, Emmanuel Chanda, Maha A Elbadry, Jailos Lubinda, Thomas A Weppelmann, Victor M Mukonka, Wenyi Zhang, Gabriel Mushinge, Mercy Mwanza-Ingwe, **Ubydul Haque**. **"Spatial Patterns and Determinants of Malaria Infection During Pregnancy in Zambia"**. *Trans R Soc Trop Med Hyg*. 2015 Aug; 109 (8):514 -21.

28. Wen-Yi Zhang, Li-Ya Wang, Xiu-Shan Zhang, Zhi-Hai Han, Wen-Biao Hu, Quan Qian, **Ubydul Haque**, Ricardo J Soares Magalhaes, Shen-Long Li, Shi-Lu Tong, Cheng-Yi Li, Hai-Long Sun, Yan-Song Sun. "**Spatiotemporal clustering analysis and risk assessments of human cutaneous anthrax in China, 2005-2012**". *PLoS One*. 2015 Jul 24;10(7):e0133736.

27. Victor M Mukonka, Emmanuel Chanda, Mulakwa Kamuliwo, Maha A Elbadry, Pauline K Wamulume, Mercy Mwanza-Ingwe, Jailos Lubinda, Lindsey A Laytner, Wenyi Zhang, Gabriel Mushinge, **Ubydul Haque. "Diagnostic approaches to malaria in Zambia, 2009 – 2014".** *Geospatial Health* 2015; 10:330.

26. Karen E Kirk, M Zahirul Haq, Mohammad Shafiul Alam, **Ubydul Haque**Ⅱ**. Geospatial Technology: A Tool to Aid in the Elimination of Malaria in Bangladesh**. *ISPRS Int. J. Geo-Inf.* 2015, *4*, 47-58.

25. Wen-Yi Zhang, Li-Ya Wang, Yun-Xi Liu, Wen-Wu Yin, Wen-Biao Hu, Ricardo J Soares Magalhaes, Fan Ding, Hai-Long Sun, Hang Zhou, Shen-Long Li, **Ubydul Haque**, Shi-Lu Tong, Gregory E Glass, Peng Bi, Archie CA Clements, Qi-Yong Liu, Cheng-Yi Li. "**Spatiotemporal transmission dynamics of hemorrhagic fever with renal syndrome in China, 2005–2012".** *PLoS Negl Trop Dis* 8(11): e3344.

24. Md Modasser Hossain Khan, Ian Bryceson, Korine N Kolivras, Fazlay Faruque, M Mokhlesur Rahman, **Ubydul Haque**Ⅱ. **Natural disasters and land-use change in the southwest coastal areas of Bangladesh.** Reg Environ Change, Springer-Verlag Berlin Heidelberg 2014.

23. Victor M Mukonka, Emmanuel Chanda, **Ubydul Haque***, Mulakwa Kamuliwo, Gabriel Mushinge, Jackson Chileshe, Kennedy A Chibwe, Douglas E Norris, Modest Mulenga, Mike Chaponda, Mbanga Muleba, Gregory E Glass, William J Moss**. High burden of malaria following scale-up of control interventions in Nchelenge District, Luapula Province, Zambia.** *Malaria Journal* 2014, 13(1):153.

22. Liya Wang, Wenbiao Hu, Ricardo J Soares Magalhaes, Peng Bi, Fan Ding, Hailong Sun, Shenlong Li, Wenwu Yin, Lan Wei, Qiyong Liu, **Ubydul Haque**, Yansong Sun, Liuyu Huang, Shilu Tong, Archie CA Clements, Wenyi Zhang, Chengyi Li**. The role of environmental factors in the spatial distribution of Japanese encephalitis in mainland China**. *Environment International* 73 (2014) 1–9.

21. Chihanga Simon, Kentse Moakofhi, Tjantilili Mosweunyane, Haruna Baba Jibril, Bornapate Nkomo, Mpho Motlaleng, Davies Sedisa Ntebela, Emmanuel Chanda, **Ubydul Haque**. **Malaria Control in Botswana, 2008-2012: the path towards elimination**. *Malaria Journal* 2013, **12**:458.

20. **Ubydul Haque**, Hans J Overgaard, Archie CA Clements, Douglas E Norris, Nazrul Islam, Jahirul Karim, Shyamal Roy, Waziul Haque, Moktadir Kabir, David L Smith, Gregory E Glass. **An epidemiological and economic evaluation of malaria control program in Bangladesh (2008 – 2012): Prospects for elimination**. *The Lancet Global Health* 2014; 2: e98–105.

19. Mulakwa Kamuliwo, Emmanuel Chanda, **Ubydul Haque***, Mercy Mwanza-Ingwe, Chadwick Sikaala, Cecilia Katebe-Sakala, Victor M Mukonka, Douglas E Norris, David L Smith, Gregory E Glass, William J Moss**. The changing burden of malaria and association with vector control interventions in Zambia using district-level surveillance data, 2006-2011.** *Malaria Journal* 2013, **12**:437.

18. Emmanuel Chanda, John M Govere, Michael B Macdonald, Richard L Lako, **Ubydul Haque**, Samson P Baba, Abraham Mnzava. **Integrated Vector Management: a critical strategy for combating vector-borne diseases in South Sudan.** *Malaria Journal* 2013, **12**:369.

17. **Ubydul Haque**, Gregory E Glass, Waziul Haque, Nazrul Islam, Shyamal Roy, Jahirul Karim, Harald Noedl. **Antimalarial Drug Resistance in Bangladesh, 1996-2012.** *Trans R Soc Trop Med Hyg*, 2013, Dec;107(12):745-52.

16. Emmanuel Chanda, Javan Chanda, Alister Kandyata, Faustina N Phiri, Lucy Muzia, **Ubydul Haque**, Kumar S Baboo. **Efficacy of ACTELLIC® 300 CS, Pirimiphos Methyl, for Indoor Residual Spraying in Areas of High Vector Resistance to Pyrethroids and Carbamates in Zambia.** *J. Med. Entomol*. 50(6): 1275D1281 (2013).

15. Emmanuel Chanda, Victor M Mukonka, Mulakwa Kamuliwo, Michael B Macdonald, **Ubydul Haque**. **Operational scale entomological intervention for malaria control: strategies, achievements, and challenges in Zambia.** *Malaria Journal* 2013, **12**:10.

14. **Ubydul Haque**, Gregory E Glass, Arne Bomblies, Masahiro Hashizume, Dipak Mitra, Nawajish Noman, Waziul Haque, M Moktadir Kabir, Taro Yamamoto, Hans J Overgaard. **Risk factors associated with clinical malaria episodes in Bangladesh: a longitudinal study.** *Am. J. Trop. Med. Hyg.* 18, 2013.

13. Heidi L Reid, **Ubydul Haque**, Shyamal Roy, Nazrul Islam and Archie CA Clements. **Characterizing the spatial and temporal variation of malaria incidence in Bangladesh, 2007**. *Malaria journal,* 2012, **11**:170.

12. **Ubydul Haque**, Lauren M. Scott, Masahiro Hashizume, Emily Fisher, Rashidul Haque, Taro Yamamoto, Gregory E. Glass. **Modeling Malaria Treatment Practices in Bangladesh using Spatial Statistics**. *Malaria Journal* 2012, **11**:63.

11. **Ubydul Haque**, Ricardo J Soares Magalhães, Dipak Mitra, Korine N. Kolivras, Wolf-Peter Schmidt, Rashidul Haque, Gregory E. Glass. **The role of age, ethnicity, and environmental factors in modulating malaria risk in Rajasthali, Bangladesh.** *Malaria Journal* 2011, **10**:367.

10. **Ubydul Haque**, Masahiro Hashizume, Korine N. Kolivras, Hans J. Overgaard, Bivas Das, Taro Yamamoto. **Reduced death rates from cyclones in Bangladesh – What more needs to be done?** *Bull World Health Organ* 2012.

9. Wolf-Peter Schmidt, Motoi Suzuki, Vu Dinh Thiem, Richard G White, Ataru Tsuzuki, Lay-Myint Yoshida, Hideki Yanai, **Ubydul Haque**, Dang Duc Anh, Koya Ariyoshi. **Population Density, Water Supply, and the Risk of Dengue Fever in Vietnam: Cohort Study and Spatial Analysis.** *PLoS Medicine*, 2011, 8(8): e1001082.

8. **Ubydul Haque**, Toshihiko Sunahara, Masahiro Hashizume, Timothy Shields, Taro Yamamoto, Rashidul Haque, Gregory E. Glass. **Malaria prevalence, risk factors, and spatial distribution in a hilly forest area of Bangladesh.** *PLoS ONE,* 2011, 6(4): e18908**.**

7. **Ubydul Haque**, Masahiro Hashizume, Gregory E. Glass, Ashraf M Dewan, Hans J Overgaard, Taro Yamamoto. **The role of climate variability in the spread of malaria in Bangladeshi highland.** *PLoS ONE, 2010,* 5(12): e14341**.**

6. Heidi Reid, **Ubydul Haque**, Archie CA Clements, Andrew J Tatem, Andrew Vallely, Syed Masud Ahmed, Akramul Islam, Rashidul Haque. **Mapping malaria risk in Bangladesh using Bayesian geostatistical models.** *Am. J. Trop. Med. Hyg*., 83(4), 2010, pp. 861-867.

5. **Ubydul Haque**, Masahiro Hashizume, Toshihiko Sunahara, Shahed Hossain, Syed Masud Ahmed, Rashidul Haque, Taro Yamamoto, Gregory E. Glass. **Progress and Challenges to Control Malaria in a remote area of Chittagong hill tracts, Bangladesh.** *Malaria Journal* 2010, **9:**156.

4. **Ubydul Haque**, Ricardo J Soares Magalhães, Heidi L Reid, Archie CA Clements, Syed Masud Ahmed, Akramul Islam, Taro Yamamoto, Rashidul Haque, Gregory E Glass. **Spatial prediction of malaria prevalence in an endemic area of Bangladesh.** *Malaria Journal* 2010, **9**:120.

3. **Ubydul Haque**, Syed Masud Ahmed, Shahed Hossain, Mamun Huda, Awlad Hossain, Mohammad Shafiul Alam, Dinesh Mondal, Wasif Ali Khan, Mohammod Khalequzzaman, Rashidul Haque. **Malaria prevalence in endemic districts of Bangladesh.** *PLoS One* 2009, 25; 4(8):e6737.

2. **Ubydul Haque**, Mamun Huda, Awlad Hossain, Syed Masud Ahmed, Mohammad Moniruzzaman, Rashidul Haque. **Spatial Malaria Epidemiology in Bangladeshi Highland**. *Malaria Journal* 2009, **8**:185.

1. Syed Masud Ahmed, Rashidul Haque, **Ubydul Haque**, Awlad Hossain. **Knowledge on the transmission, prevention, and treatment of malaria among two endemic populations of Bangladesh and their health-seeking behavior,** *Malaria Journal* 2009, **8**:173.

Manuscripts under review

1. Moeen Hamid Bukhari, Muhammad Yousaf Shad, Jesús A Treviño C, Renee Robinson, Gabriel L Hammer, Penghua Wang, Uyen-Sa DT Nguyen, **Ubydul Haque**. **Bayesian spatiotemporal approaches to modeling arboviral diseases in Mexico**. Submitted to the Lancet Regional Health America (under review).

2. Annan Esther, Uyen-Sa DT Nguyen, Jesus Trevino, Rajesh Nandy, **Ubydul Haque**. **Variation in dengue severity across pregnancy status from 2012-2020 in Mexico: an interaction between serotype, comorbidities and age across women in their reproductive age**. Submitted to Journal of Infectious Diseases (under review).

3. Annan Esther, Jesus Trevino, Uyen-Sa DT Nguyen, Rajesh Nandy, **Ubydul Haque**. **Linking dengue serotypes, climatic parameters and socioeconomic risk factors in Mexico: A spatial analysis**. Submitted to Environmental Health Perspectives (under review).

4. Mooen Hamid Bhukhari, Jürgen Pilz, Paula Silva, Tolga Görüm, Sabid Zekan, Erkan Istanbulluoglu, Juneseok Lee, Arezoo Soltani, Wahyu Wilopo, Javed Akhter Qureshi, Kranthi Swaroop Koonisetty, Usupaev Sheishenaly, **Ubydul Haque**. **Community perceptions of landslide risk and susceptibility: A eight-country comparative study**. Submitted to Landslide (under review).

5. Annan Esther, Jesus Trevino, Uyen-Sa DT Nguyen, **Ubydul Haque**. **The role of climatic parameters in the spread of dengue serotype in Mexico**. Submitted to Ecology Letters (under review).

6. Esther Annan, Uyen-Sa DT Nguyen, Jesús Treviño, Bingxin Zhao, Ubydul Haque. **Direct and Indirect effects of age on dengue severity: the mediating role of secondary infection.** Submitted to American Journal of Epidemiology (under review).

INVITED TALKS

1. "**Malaria epidemiology in Bangladesh".** Multicultural Association for Pre-Health Students, University of Florida, October 2015.

2. "**Linking between globally increasing deadly landslides and global warming associated extreme rainfall".** Institute for Applied Geosciences, Karlsruhe Institute of Technology, Germany, May 2017.

3. **"Transmission of Arboviruses in Mexico".** Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo Léon, Mexico, October 2017.

CONFERENCE PROCEEDINGS AND SCHOLARLY PRESENTATIONS

1. **Ubydul Haque**. **Assessing Progress and Revising Strategies for Malaria Control in Zambia.** Johns Hopkins Bloomberg School of Public Health, USA, January 25, 2013.

2. **Ubydul Haque**. **Reduced death rates from cyclones in Bangladesh – What more needs to be done?** The 17th international symposium on society & resource management, (ISSRM) Sabah, Malaysia, 13-17th June 2011.

3. **Ubydul Haque**. **The role of climate variability in the spread of malaria in Bangladeshi highland.** The International Union for *Health Promotion* and Education (IUHPE) conference, Geneva, Switzerland, 2010.

4. Atiqur Rahman, Mohammad Nizamuddin, Leonid Roytman, **Ubydul Haque**. **Application of AVHRR-based vegetation health indices for malaria vector assessment of Chittagong division, Bangladesh**. Proceedings of the ICSS 2008. ISBN 984-300-002873-0.

5. **Ubydul Haque**. **Rapid assessment of Malaria risk in Bangladeshi highland using GIS**. Proceedings in ESRI Health GIS conference in Washington D.C., USA, 2008.

6. **Ubydul Haque**, Philipp Blum. **Costs and deaths of landslides in Europe.** EGU General Assembly 2016, Vienna, Austria, 2016.

7. **Ubydul Haque**, Gregory E. Glass. **Globally increasing deadly landslides**. AAG Annual Meeting: Boston, USA, 2017.

8. **Ubydul Haque**, Mateja Jemec Auflič, Philipp Blum. **Population density and fatal landslides.** 4th World Landslide Forum, Ljubljana, Slovenia, May 29 – June 2, 2017.

TRAINING

- The Teaching Professor Annual Conference, June 1-3, 2018, Atlanta, Georgia.

STUDENT MENTORSHIP

Name	Year(s)	Degree	Status	Role	Affiliated Institute
Esther Annan	2018-2022	Ph.D.	Completed	Advisor	UNTHSC
Edna P. Mendoza	2021-2025	Ph.D.	Ongoing	Advisor	UNTHSC
Sumaira Zafar	2018-2021	Ph.D.	Completed	Co-advisor	Asian Institute of Technology
Anahí M. Cabrera	2020-2023	Ph.D.	Ongoing	Co-advisor	University of Sonora
Patrick Zamba	2021-2022	M.Sc.	Completed	Advisor	UNTHSC
Madison Smith	2020-2021	M.Sc.	Completed	Advisor	UNTHSC
Kranthi Swaroop	2020-2021	M.Sc.	Completed	Advisor	UNTHSC
Siddikur Rahman	2018-2021	Ph.D.	Completed	Co-advisor	Khon Kaen university
Sushmitha Ananth	2019-2020	M.Sc.	Completed	Advisor	UNTHSC
Nistha Shrestha	2019-2020	M.Sc.	Completed	Advisor	UNTHSC
Caitlynn Reeves	2018-2020	M.Sc.	Completed	Advisor	UNTHSC
Osman Ulvi	2017-2018	M.Sc.	Completed	Advisor	Baldwin Wallace University
Modasser H. Khan	2011-2012	M.Sc.	Completed	Co-advisor	Norwegian University of Life Sciences
Jacob Smith	2017-2018	Undergraduate	Completed	Advisor	Baldwin Wallace University
Caleb Zinn	2017-2018	Undergraduate	Completed	Advisor	Baldwin Wallace University
Nathan Lippincott	2017-2018	Undergraduate	Completed	Advisor	Baldwin Wallace University

Students Recently Graduated

- Esther Annan - Postdoctoral researcher, Princeton University (started on July 1, 2022)
- Madison Smith - Research fellow, Emory University
- Kranthi Swaroop – Epidemiologist, Utah Department of Health
- Siddikur Rahman – Associate Professor, Begum Rokeya University, Bangladesh
- Sushmitha Ananth – Epidemiologist, Arizona Department of Health
- Nistha Shrestha – Doctoral fellowship, University of Florida
- Osman Ulvi – Fellow, Genesis Health System, Iowa
- Caitlynn Reeves - Epidemiologist, Texas Department of Health

TEACHING EXPERIENCE

Year(s)	# Semesters	Course title	Level	Class size
2017-2018	Fall	Introduction to Public Health	Undergraduate	27-30
2018	Spring	Biostatistics	Undergraduate	23
2017-2018	Fall	Biostatistics	MPH (Online)	14
2018	Spring	GIS Health Analysis	Undergraduate	8
2019	Fall	GIS in Public Health	MPH/ Doctoral	12
2019-2020	Spring	Advance Epidemiology 2	Doctoral	3
2019-2021	Spring	Diseases from Animals to Humans	MPH/ Doctoral	16
2020-2021	Fall	Survey Research & Questionnaire Design	Masters/ Doctoral	17
2021-2022	Spring	Survey Research & Questionnaire Design	Masters/ Doctoral	25
2021-2022	Spring	Diseases from Animals to Humans	MPH/ Doctoral	26

MEDIA COVERAGE

Science Magazine*:* http://www.sciencemag.org/content/345/6202/1270.full
Isecn*:* http://isecn.org/2011/04/12/2010-isecn-research-spotlights/
AGU*:* http://blogs.agu.org/landslideblog/2016/06/17/fatal-landslides-in-europe/

SKILLS

Bilingual	Native English and Bengali (fluent)
Operating Systems	Windows
Software	ArcMap 10, ArcGIS Pro, IDRISI, PCI Geomatica, STATA, Maxent, R package, MATLAB

SERVICE TO THE INSTITUTION

2020-2022	PhD students Search Committee Member, School of Public Health, University of North Texas Health Science Center
2020-2021	Faculty Search Committee Member, Dept. of Epidemiology & Biostatistics, University of North Texas Health Science Center
2017-18	Faculty Search Committee Member, Dept. of Public Health, Baldwin Wallace University
2018	Graduate Student Application Reviewer, Asian Institute of Technology, Thailand
2018	Graduate Student Application Reviewer, Khon Kaen University, Thailand
2017-18	Member, Undergraduate Research and Creative Studies Advisory Council, Baldwin Wallace University

SERVICE TO THE PROFESSION

GRANT REVIEWER

2016	Welcome Trust (204803/Z/16/Z)
2017	Marie Curie (four proposals)
2020	UKRI (two proposals)
2021	NIH/ NIAID (Vector biology)

EDITORIAL SERVICE

Editorial *Board Member*

- J Public Health Emergency
- Pathogens
- Journal of Biosafety & Health Education (1 article, 2014)
- Environmental Informatics
- Epidemiologia
- Journal of Bacteriology and Mycology (1 article, 2015)
- Journal of Epidemiological Research
- SciTz Nutrition and Food Science

Reviewer Service

- BMJ Global Health (1 article, 2016)
- Tropical Medicine and Infectious Disease (1 article, 2018)
- BMJ Open (1 article, 2016)
- Journal of Medical Entomology (1 article, 2018)
- Nat. Hazards Earth Syst. Sci. (1 article, 2018)
- BMC Infectious Diseases (1 article, 2016)
- International Journal of Environmental Research and Public Health (1 article, 2016, 1 2021)
- Science of the Total Environment (1 article, 2016)
- Asian Journal of Environment & Ecology (1 article, 2016)
- BMC Medicine (1 article, 2015)
- Spatial and Spatio-temporal Epidemiology (1 article, 2015, 1 article, 2016)
- Environmental Studies and Sciences (1 article, 2015)
- British Journal of Medicine and Medical Research (1 article, 2015)
- Journal of Geography, Environment and Earth Science International (1 article, 2015)
- Journal of Parasitology and Vector Biology (2 articles, 2015)
- Journal of Basic and Applied Research International (1 article, 2015)
- International Journal of Research in Environmental Studies (1 article, 2015)
- Acta Tropica (5 articles, 2018, 3 article, 2017, 4 articles, 2016, 1 article, 2015)
- Int. J. Environ. Res. Public Health (1 article, 2015)
- PLoS ONE (1 article, 2017, 1 article in 2013, 3 articles in 2014)
- Journal of Infection and Public Health (1 article, 2014)
- Journal of Clinical and Diagnostic Research (1 article, 2014)
- Dove Medical Press (1 article, 2014; 1 article, 2015)
- International Journal of Tropical Disease & Health (2 articles, 2014)
- International Journal of Public and Environmental Health (1 article, 2014)

- Environmental Research (1 article, 2014)
- Annals of Medical and Health Sciences Research (1 article, 2014)
- Malaria Journal (2 articles, 2014)
- Pan African Medical Journal (1 article, 2014)
- Tropical Medicine and International Health (1 article, 2013)
- iConcept Medical Diagnosis and Treatment (1 article, 2013)
- Geography and Regional Planning (1 article, 2012)
- American Journal of Tropical Medicine and Hygiene (1 article, 2021)
- EBioMedicine (1 article, 2021)

PROFESSIONAL MEMBERSHIP

- Association of American Geographers
- American Geophysical Union
- American Association for the Advancement of Science, (AAAS)

NATIONAL MALARIA CONTROL PROGRAM EVALUATION

- Bangladesh
- Botswana
- Eritrea
- Zambia

EMPLOYMENT AND OTHER TRAVELS

Australia, Bangladesh, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, India, Japan, Laos, Malaysia, Mexico, Morocco, Norway, Singapore, Sri Lanka, Slovenia, Sweden, Switzerland, Tanzania, Thailand, Turkey, UK, USA, Zambia