

CURRICULUM VITAE

Amir Sapkota, Ph.D.

PERSONAL INFORMATION

University of Maryland School of Public Health
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EDUCATION

- 2005 **Johns Hopkins University Bloomberg School of Public Health**, Baltimore, MD
Doctor of Philosophy in Environmental Health Sciences, 1999-2005
Certificate in Risk Sciences and Public Policy, 2001
Advisor: Timothy J. Buckley, PhD, CIH
- 1998 **Clark University**, Worcester, MA
Bachelor of Science in Chemistry
- 1998 **Clark University**, Worcester, MA
Bachelor of Science in Environmental Sciences

POST-DOCTORAL TRAINING

- 2005-2007 **International Agency for Research on Cancer (IARC)**,
Gene Environment Epidemiology, Lyon, France
Advisor: Paolo Boffetta, MD, MPH
- 2005 **Johns Hopkins University Bloomberg School of Public Health**, Baltimore, MD
Department of Environmental Health Sciences
Advisor: Rolf U. Halden, PhD

EMPLOYMENT

- 8/22- Present Professor and Chair
Department of Epidemiology and Biostatistics
University of Maryland School of Public Health
College Park, MD

9/19-7/22	Professor Director, Exposome Small Molecule Core Facility University of Maryland School of Public Health Maryland Institute for Applied Environmental Health College Park, MD
08/14-8/19	Associate Professor University of Maryland School of Public Health Maryland Institute for Applied Environmental Health College Park, MD
05/10-Present	Affiliate Faculty University of Maryland School of Medicine 665 W. Baltimore Street Baltimore MD 21201
1/10-Present	Affiliate Faculty University of Maryland Maryland Population Research Center College Park, MD
1/09-Present	Affiliate Faculty University of Maryland Marine Estuarine Environmental Sciences Graduate Program College Park, MD
05/07-08/14	Assistant Professor University of Maryland School of Public Health Maryland Institute for Applied Environmental Health College Park, MD
10/05-05/07	Post-doctoral Fellow International Agency for Research on Cancer (IARC) Gene Environment Epidemiology Group, Lyon, France
09/04-09/05	Post-doctoral Fellow Johns Hopkins University Bloomberg School of Public Health Department of Environmental Health Sciences, Baltimore, MD
08/99-09/04	Research Assistant Johns Hopkins University Bloomberg School of Public Health Department of Environmental Health Sciences, Baltimore, MD

04/04-05/04	Research Assistant Nepal Nutritional Intervention Project Sarlahi (NNIPS), Kathmandu, Nepal
05/00-08/00	Fellow Tobacco Free Initiative World Health Organization, Geneva, Switzerland
03/98-08/99	Chemist Harvard School of Public Health, Boston, MA. Environmental Health Sciences
01/94-08/98	Research Assistant Clark University, Worcester, MA Department of Chemistry

PUBLICATIONS

- †denotes corresponding author
- #denotes advised undergraduate students
- *denotes advised graduate students
- ** denotes advised post-doctoral students.

Publication Statistics:

83. According to google scholar, my work has been cited over 25,585 times, with an average of 320 citations per paper. **My overall h-index is 32 and i-index is 59.**

<https://scholar.google.com/citations?user=vM8k5mwAAAAJ&hl=en&oi=ao>

Articles Published or In Press in Peer-reviewed Journals

1. Adams N*, Dhimal M, Iyer V, Murtugudde R, Liang XZ, Haider M, Cruz-Canos R, Thi Anh TD, Hashim J, Gao C, Wang YC, **Sapkota A**. El Niño Southern Oscillation, Monsoon Anomaly and Childhood Diarrheal Disease Morbidity in Nepal. *PNAS Nexus*, **2022**. 1 (2):pgac032, <https://doi.org/10.1093/pnasnexus/pgac032>.
2. Li L, Li X, Asrar G, Zhou Y, Chen M, Zeng Y, Li X, Li F, Luo M, Sapkota a, Hao D. Detection and attribution of long-term and fine-scale changes in spring phenology over urban areas: A case study in New York State. *International Journal of Applied Earth Observations and Geoinformation*, **2022**. 110: 102815. <https://doi.org/10.1016/j.jag.2022.102815>.
3. Remigio RV*, He H, Raimann J, Kotanko P, Usvyat L, Maddux FW, Sapkota AR, Liang XZ, Puett R, He X, **Sapkota A†**. Combined effects of air pollution and

extreme heat events among ESKD patients within the Northeastern United States, *Sci Total Environ*, **2022**; 812:152481. doi: 10.1016/j.scitotenv.2021.152481.

4. Effects of Climatic Factors on Diarrheal Diseases among Children below 5 Years of Age at National and Subnational Levels in Nepal: An Ecological Study. Dhimal M, Bhandari D, Karki KB, Shrestha SL, Khanal M, Shrestha RRP, Dahal S, Bista B, Ebi KL, Cissé G, Sapkota A, Groneberg DA. *Int J Environ Res Public Health*, **2022**. 18;19(10):6138. doi: 10.3390/ijerph19106138.
5. Kim S, Paul M, Negahban-Azar M, Micallef SA, Rosenberg-Goldstein RA, Hashem F, Parveen S, Sapkota A, Kniel K, Sapkota AR, Pachepsky Y, Sharma M. Persistent Spatial Patterns of *Listeria monocytogenes* and *Salmonella enterica* Concentrations in Surface Waters: Empirical Orthogonal Function Analysis of Data from Maryland. *Appl. Sci.* **2022**. 12, 7526. <https://doi.org/10.3390/app12157526>
6. Remigio RV*, Turpin R, Raimann JG, Kotanko P, Maddux FW, Sapkota AR, Liang XZ, Puett R, He X, **Sapkota A†**. Assessing proximate intermediates between ambient temperature, hospital admissions, and mortality in hemodialysis patients. *Environ Res.* **2021**;204(Pt B):112127. doi: 10.1016/j.envres.2021.112127. **Impact Factor: 6.5**
7. Morgado ME, Jiang C*, Zambrana J*, Upperman CR*, Mitchell C, Boyle M, Sapkota AR, **Sapkota A†**. Climate change, extreme events, and increased risk of salmonellosis: foodborne diseases active surveillance network (FoodNet), 2004-2014. *Environ Health*, **2021**;20(1):105. doi: 10.1186/s12940-021-00787-y (2021). **Impact Factor: 4.7**
8. Li L*, Hao D, Li X, Chen M, Zhou Y, Jurgens D, Asrar G, **Sapkota A†**. Satellite-based phenology products and in-situ pollen dynamics: A comparative assessment. *Environ Res.* **2021**;204(Pt A):111937. doi: 10.1016/j.envres.2021.111937(2021). **Impact Factor: 6.5.**
9. Boyle MD, Kavi LK, Louis LM, Pool W, **Sapkota A**, Zhu L, Pollack AZ, Thomas S, Rule AM, Quirós-Alcalá L. Occupational Exposures to Phthalates among Black and Latina U.S. Hairdressers Serving an Ethnically Diverse Clientele: A Pilot Study. *Environ Sci Technol*, **2021**;55(12):8128-8138. doi: 10.1021/acs.est.1c00427 (2021). **Impact Factor: 9.0.**
10. Randell H**, Jiang C**, Liang XZ, Murtugudde R, **Sapkota A†**. Food insecurity and compound environmental shocks in Nepal: Implications for a changing climate. *World Development*, **2021**;145:105511. doi: 10.1016/j.worlddev.2021.105511. **Impact Factor: 5.3.**
11. Anderson-Coughlin B, Craighead S, Kelly A, Gartley S, Vanore A, Johnson G, Jiang C, Haymaker J, White C, Foust D, Duncan R, East C, Handy E, Bradshaw R, Murray R, Kulkarni P, Callahan M, Solaiman S, Betancourt W, Gerba C, Allard S, Parveen S, Hashem F, Micallef S, **Sapkota A**, Sapkota AR, Sharma M, and Kniel K. Enteric Viruses and Pepper Mild Mottle Virus Show Significant Correlation in Select Mid-

Atlantic Agricultural Waters. *Applied and Environmental Microbiology*, **2021**: AEM.00211-21. doi: 10.1128/AEM.00211-21. **Impact Factor: 4.8.**

12. Nili S, Khanjani N, Jahani Y, Bakhtiari B, **Sapkota A**, Moradi G. The effect of climate variables on the incidence of cutaneous leishmaniasis in Isfahan, Central Iran. *International Journal of Biometeorology*, **2021**; 65(11):1787-1797. doi: 10.1007/s00484-021-02135-8 (2021). **Impact Factor: 3.8.**
13. Allotey JA, Boyle M, **Sapkota A**, Zhu L, Peng RD, Garza MA, Quirós-Alcalá L. Determinants of phthalate exposure among a US-based group of Latino workers. *International Journal of Hygiene and Environmental Health*, **2021**;234:113739. doi: 10.1016/j.ijheh.2021.113739 (2021). **Impact Factor: 4.4.**
14. Li L*, Jiang C, Murtugudde R, Liang XZ, **Sapkota A†**. Global population exposed to extreme events in the 150 most populated cities of the world: implications for public health. *IJERPH*, **2021**;18(3):1293. doi: 10.3390/ijerph18031293 (2021). **Impact Factor: 3.4.**
15. Liao W, Wu J, Yang L, Benmarhnia T, Liang XZ, Murtugudde R, **Sapkota A**, Ma W, Zhong S, Huang C. Detecting the net effect of flooding on infectious diarrheal disease in Anhui Province, China: a quasi-experimental study. *Environ Res. Let*, **2020**; 15 (12), 125015 (2020). **Impact Factor: 6.8.**
16. Iyer V, Sharma A, Nair D, Solanki B, Umrigar P, Jiang C, Murtugudde R, Mavalankar D, **Sapkota A**. Role of extreme weather events and El Niño Southern Oscillation on incidence of Enteric Fever in Ahmedabad and Surat, Gujarat, India. *Environmental Research*, **2020**; 110417. doi: 10.1016/j.envres.2020.110417. **Impact Factor: 6.5.**
17. Zhu L**, Jiang C, Panthi S, Allard SM, Sapkota AR, **Sapkota A†**. Impact of high precipitation and temperature events on the distribution of emerging contaminants in surface water in the Mid-Atlantic, United States. *Sci Total Environ*, **2020**;755(Pt 2):142552. doi: 10.1016/j.scitotenv.2020.142552. **Impact Factor: 8.0.**
18. Solaiman S, Allard SM, Callahan MT, Jiang C, Handy E, East C, Haymaker J, Bui A, Craddock H, Murray R, Kulkarni P, Anderson-Coughlin B, Craighead S, Gartley S, Vanore A, Duncan R, Foust D, Taabodi M, **Sapkota A**, May E, Hashem F, Parveen S, Kniel K, Sharma M, Sapkota AR, Micallef SA. Longitudinal Assessment of the Dynamics of *Escherichia coli*, Total Coliforms, *Enterococcus* spp., and *Aeromonas* spp. in Alternative Irrigation Water Sources: a CONSERVE Study. *Appl Environ Microbiol.* **2020**;86(20):e00342-20. doi: 10.1128/AEM.00342-20 (2020). **Impact Factor: 4.8.**
19. **Sapkota A†**, Dong Y*, Li L, Asrar G, Zhou Y, Li X, Coates F, Spanier AJ, Matz J, Bielory L, Breitenother AG*, Mitchell C, Jiang C. Association Between Changes in Timing of Spring Onset and Asthma Hospitalization in Maryland. *JAMA Netw*,

2020;3(7):e207551. doi: 10.1001/jamanetworkopen.2020.7551. **Impact Factor: 8.5.**

20. Chang CP, Siwakoti B, **Sapkota A**, Gautam DK, Lee YA, Monroe M, Hashibe M. Tobacco smoking, chewing habits, alcohol drinking and the risk of head and neck cancer in Nepal. *Int J Cancer*, **2020**; 147(3):866-875. doi: 10.1002/ijc.32823. Epub 2019 Dec 27. **Impact Factor: 7.4.**
21. Craddock HA, Panthi S*, Rjoub Y, Lipchin C, **Sapkota A**, Sapkota AR. Antibiotic and herbicide concentrations in household greywater reuse systems and pond water used for food crop irrigation: West Bank, Palestinian Territories. *Science of the Total Environment*, **2019** <https://doi.org/10.1016/j.scitotenv.2019.134205>. **Impact Factor: 8.0.**
22. Remigio* RV, Jiang C, Raimann J, Kotanko P, Usvyat L, Maddux FW, Kinney P, **Sapkota A†**. Association of Extreme Heat Events With Hospital Admission or Mortality Among Patients With End-Stage Renal Disease. *JAMA Network Open*, **2019**; 2(8):e198904. doi: 10.1001/jamanetworkopen.2019.8904. **Impact Factor: 8.5.**
23. Vohra SN, **Sapkota A†**, Lee MT, Pun CB, Thakur B, Siwakoti B, Wiesenfeld PL, Hashibe M, Dallal CM. Reproductive and Hormonal Factors in Relation to Lung Cancer Among Nepali Women. *Frontiers in Oncology*, **2019**; 9:311. doi: 10.3389/fonc.2019.00311. **Impact Factor:6.2.**
24. Panthi S*, Sapkota AR, Raspanti G**, Allard S, Bui A, Craddock H, Murray R, Zhu L, East C, Handy E, Callahan MT, Haymaker J, Kulkarni P, Anderson B, Craighead S, Gartley S, Vanore A, Betancourt W Duncan R, Foust D, Sharma M, Micallef SA, Gerba C, Parveen S, Hashem F, May E, Kniel K, Pop M, Ravishankar S, **Sapkota A†**. Herbicides, Antibiotics, Stimulants, and Disinfectants in Agricultural Water Sources. *Environmental Research*, **2019**; 174:1-8. doi: 10.1016/j.envres.2019.04.011. **Impact Factor: 6.5.**
25. Zhu L, Torres M, Betancourt WQ, Sharma M, Micallef SA, Gerba C, Sapkota AR, Sapkota A, Parveen S, Hashem F, May E, Kniel K, Pop M, Ravishankar S. Incidence of fecal indicator and pathogenic bacteria in reclaimed and return flow waters in Arizona, USA. *Environmental Research*, **2019**; 170:122-127. **Impact Factor: 6.5.**
26. Kulkarni P, Raspanti GA**, Bui AQ, Bradshaw RN, Sharma M, **Sapkota A**, Sapkota AR. Zerovalent iron sand filtration can reduce the concentration of multiple antimicrobials in conventionally treated reclaimed water. *Environmental Research*, **2019**; 172:301-309. **Impact Factor: 6.5.**
27. Fisher JA, Puett RC, Laden F, Wellenius GA, **Sapkota A**, Liao D, Yanosky JD, Carter-Pokras O, He X, Hart JE. Case-crossover Analysis of Short-term Particulate Matter Exposures and Stroke in the Health Professionals Follow-up Study. *Environment International*, **2019**; 124:153-160. **Impact Factor: 7.6.**

28. Li X, Zhou Y, Meng L, Asrar GR, **Sapkota A**, Coates F. Characterizing the relationship between satellite phenology and pollen season: a case study of birch. *Remote Sensing of Environment*, **2019**; 222:267-274. **Impact Factor: 10.1.**
29. **Sapkota A**[†], Murtugudde R, Curriero F, Upperman CF, Ziska L, Jiang C^{**}. Associations between alteration in plant phenology and hay fever prevalence among US adults: Implication for changing climate. *PLoS One*, **2019** 14(3):e0212010. doi: 10.1371/journal.pone.0212010. **Impact Factor: 3.7.**
30. Burwell K, Puett R, He X, **Sapkota A**, Wilson SM. The Development of a Cumulative Stressors and Resiliency Index (CSRI) to Examine Environmental Health Risk: A South Carolina Assessment. *Environmental Justice*, **2018**; 11(4):165-175. **Impact Factor 1.2.**
31. Hsieh S, **Sapkota A**, Wood R^{*}, Bearer C, Kapoor S. Neonatal ethanol exposure from ethanol-based hand sanitisers in isolettes. *Arch Dis Child Fetal Neonatal Ed*, **2018**; pii: fetalneonatal-2016-311959. doi: 10.1136/archdischild-2016-311959. **Impact Factor 5.7.**
32. Kulkarni P, Olson ND, Raspanti GA^{*}, Rosenberg Goldstein RE, Gibbs SG, **Sapkota A**, Sapkota AR. Antibiotic Concentrations Decrease during Wastewater Treatment but Persist at Low Levels in Reclaimed Water. *Int J Environ Res Public Health*, **2017**;14(6). pii: E668. doi: 10.3390/ijerph14060668 (2017). **Impact Factor 3.4.**
33. Gost A, Hess-Mutinda R, Mitchell C, **Sapkota A**[†]. Climate and Health In Maryland: The Maryland Climate Change Health Adaptation Program. *Delaware Journal of Public Health*, **2017**, 3(6): 44-50 (2017).
34. Boyle MD, Soneja SI, Quirós-Alcalá L, Dalemarre L, Sapkota AR, Sangaramoorthy T, Wilson S, Milton D, **Sapkota A**[†]. A Pilot Study to Assess Residential Noise Exposure Near Natural Gas Compressor Stations. *PLoSOne*, **2017**; 12(4):e0174310. doi: 10.1371/journal.pone.0174310. eCollection (2017). **Impact Factor 3.2.**
35. Fisher JA, Jiang C^{**}, Soneja SI^{**}, Mitchell C, Puett RC, **Sapkota A**[†]. Summertime extreme heat events and increased risk of acute myocardial infarction hospitalizations. *J Expo Sci Environ Epidemiol*, **2017**; 27(3):276-280. doi: 10.1038/jes.2016.83. **Impact Factor 5.6.**
36. Lanikova L, Reading NS, Hu H, Tashi T, Burjanivova T, Shestakova A, Siwakoti B, Thakur BK, Pun CB, **Sapkota A**, Abdelaziz S, Feng BJ, Huff CD, Hashibe M, Prchal JT. Evolutionary selected Tibetan variants of HIF pathway and risk of lung cancer. *Oncotarget*, **2017**; 14;8(7):11739-11747. doi: 10.18632/oncotarget.14340. **Impact Factor 3.33.**
37. Liu A, Soneja SI^{**}, Jiang C^{**}, Huang C, Kerns T, Beck K, Mitchell C, **Sapkota A**[†]. Frequency of extreme weather events and increased risk of motor vehicle collision in Maryland. *Sci Total Environ*, **2017**; 580:550-555. doi: 10.1016/j.scitotenv.2016.11.211. **Impact Factor 8.0.**

38. Romeo-Upperman C *, Parker JD, Akinbami LJ, Jiang C, He X, Murtugudde R, Curriero F, Ziska L, **Sapkota A†**. Exposure to Extreme Heat Events Is Associated with Increased Hay Fever Prevalence among Nationally Representative Sample of US Adults: 1997-2013. *Journal of Allergy and Clinical Immunology: In Practice*, **2017**; 5(2):435-441. DOI: <http://dx.doi.org/10.1016/j.jaip.2016.09.016>. **Impact Factor 8.9.**
39. Soneja S**, Jiang C**, Upperman CR*, Murtugudde R, Mitchell C, Blythe D, Sapkota AR, **Sapkota A†**. Extreme Precipitation Events and Increased Risk of Campylobacteriosis in Maryland, U.S.A. *Environmental Research*, **2016**; 149:216-221. **Impact Factor 6.5.**
40. LaKind JS, Overpeck J, Breyse PN, Backer L, Richardson SD, Sobus J, **Sapkota A**, Upperman CR*, Jiang C**, Beard CB, Brunkard JM, Bell JE, Harris R, Chretien JP, Peltier RE, Chew GL, Blount BC. Exposure science in an age of rapidly changing climate: challenges and opportunities. *Journal of Exp Sci Environ Epidemiol*. 26(6):529-538 (2016). **Impact Factor 5.6.**
41. Soneja S**, Jiang C**, Fisher J, Upperman CR*, Mitchell C, **Sapkota A†**. Exposure to extreme heat and precipitation events associated with increased risk of hospitalization for asthma in Maryland, U.S.A. *Environmental Health*, **2016**; 15(57):1-7. DOI: 10.1186/s12940-016-0142-z. **Impact Factor 4.7.**
42. Raspanti GA, Hashibe M, Siwakoti B, Wei M, Thakur BK, Pun CB, Al-Temimi M, Lee YC, **Sapkota A†**. Household air pollution and lung cancer risk among never-smokers in Nepal. *Environ Res*, **2016**; 146:141-145. **Impact Factor 5.0.**
43. Sangaramoorthy T, Jamison AM, Boyle MD, Payne-Sturges DC, **Sapkota A**, Milton DK, Wilson SM. Place-based perceptions of the impacts of fracking along the Marcellus Shale. *Soc Sci Med*, **2016**; 151:27-37. **Impact factor 4.6.**
44. Boyle MD, Payne-Sturges DC, Sangaramoorthy T, Wilson S, Nachman KE, Babik K, Jenkins CC, Trowell J, Milton DK, **Sapkota A†**. Hazard Ranking Methodology for Assessing Health Impacts of Unconventional Natural Gas Development and Production: The Maryland Case Study. *PLoS One*, **2016**;11(1):e0145368. doi: 10.1371/journal.pone.0145368. **Impact Factor 3.7.**
45. Quirós-Alcalá L, Wilson S, Witherspoon N, Murray R, Perodin J*, Trousdale K, Raspanti G, **Sapkota A†**. Volatile organic compounds and particulate matter in child care facilities in the District of Columbia: Results from a pilot study. *Environ Res*.**2015**; 146:116-124. **Impact Factor 5.0.**
46. Romeo Upperman C*, Parker J, Jiang C, He X, Murtugudde R, **Sapkota A†**. Frequency of Extreme Heat Event as a Surrogate Exposure Metric for Examining the Human Health Effects of Climate Change. *PLoS One*, **2015**; 10(12):e0144202. doi: 10.1371/journal.pone.0144202. **Impact Factor 3.2.**
47. Montresor-Lopez JA, Yanosky JD, Mittleman MA, Sapkota A, He X, Hibbert JD, Wirth MD, Puett RC. Short-term exposure to ambient ozone and stroke hospital

admission: A case-crossover analysis. *Journal of Exposure Science and Environmental Epidemiology*, **2015**; 1-5. **Impact Factor 5.6.**

48. Raspanti GA*, Hashibe M, Siwakoti B, Wei M, Thakur BK, Pun CB, Milrod C, Adhikari S, Lee YC, **Sapkota A**†. Ethnic Variation in Consumption of Traditional Tobacco Products and Lung Cancer Risk in Nepal. *Asian Pac J Cancer Prev*. 2015; 16(14):5721-6. **Impact Factor 1.756.**
49. Jiang C**, Shaw KS, Upperman CR*, Blythe D, Mitchell C, Murtugudde R, Sapkota AR, **Sapkota A**†. Environ Int. Climate change, extreme events and increased risk of salmonellosis in Maryland, USA: Evidence for coastal vulnerability. *Environment International*, **2015**; 83:58-62. **Impact Factor 7.6.**
50. Forouzanfar MH, Alexander L, Anderson HR, **Sapkota A**, et al. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, **2015**; 386(10010): 2287-2323. **Impact Factor 59.1.**
51. Smith TJ, Wolfson JA, Jiao D, Crupain MJ, Rangan U, **Sapkota A**, Bleich SN, Nachman KE. Caramel color in soft drinks and exposure to 4-methylimidazole: a quantitative risk assessment. *PLoS One*, **2015**; 10(2):e0118138(2015). doi: 10.1371/journal.pone.0118138. **Impact Factor 3.2.**
52. Bruce N, Dherani M, Liu R, Hosgood HD 3rd, **Sapkota A**, Smith KR, Straif K, Lan Q, Pope D. Does household use of biomass fuel cause lung cancer? A systematic review and evaluation of the evidence for the GBD 2010 study. *Thorax*, **2015**; 70(5): 433-41. **Impact factor 10.3.**
53. Bashore CJ*, Geer LA, He X, Puett R, Parsons PJ, Palmer CD, Steuerwald AJ, Abulafia O, Dalloul M, **Sapkota A**†. Maternal mercury exposure, season of conception and adverse birth outcomes in an urban immigrant community in Brooklyn, New York, U.S.A. *Int J Environ Res Public Health*, **2014**; 11(8):8414-42 (2014). **Impact Factor 3.4.**
54. Kerridge BT*, Khan MR, Rehm J, **Sapkota A**. Terrorism, civil war and related violence and substance use disorder morbidity and mortality: a global analysis. *J Epidemiol Glob Health*, **2014**; 4(1):61-72. **Impact Factor 1.6.**
55. Rosenberg Goldstein RE, Micallef SA, Gibbs SG, He X, George A, **Sapkota A**, Joseph SW, Sapkota AR. Occupational exposure to *Staphylococcus aureus* and *Enterococcus* spp. among spray irrigation workers using reclaimed water. *Int J Environ Res Public Health*, **2014**; 11(4):4340-55. **Impact Factor 3.4.**
56. Rosenberg Goldstein R, Micallef SA, Gibbs SG, George A, Claye E, **Sapkota A**, Joseph SW, Sapkota AR. 2013. Detection of Vancomycin-Resistant Enterococci (VRE) at Four U.S. Wastewater Treatment Plants that Provide Effluent for Reuse. *Science of the Total Environment*, **2014**. 466-467:404-11. **Impact Factor 7.9.**

57. Murray CJ, Abraham J,....**Sapkota A** et al. The State of US Health, 1990-2010: Burden of Diseases, Injuries, and Risk Factors. *JAMA*, **2013**; 310(6): 591-608. **Impact Factor 56.3.**
58. Kerridge BT*, Khan MR, Rehm J, **Sapkota A**. Conflict and Diarrheal and Related Diseases: A Global Analysis. *Journal of Epidemiology and Global Health*, **2013**; 3(4):269-77. **Impact Factor: 1.8.**
59. Martin WJ, Glass RI, Araj H, Balbus L, Collins FS, Curtis S, Diette GB, Elwood WN, Falk H, Hibberd PL, Keown S, Mehta S, Patrick E, Rosenbaum J, **Sapkota A**, Tolunay E, Bruce N. Household Air Pollution in Low- and Middle-Income Countries: Health Risks and Research Priorities. *PLoS Med*, **2013**;10(6):e1001455. doi: 10.1371/journal.pmed.1001455. **Impact Factor: 11.1.**
60. Fransen M*, Perodin J*, Hada J, He X, **Sapkota A**[†]. Impact of vehicular strike on particulate matter air quality: Results from a natural intervention study in Kathmandu valley. *Environmental Research*, **2013**; 122:52-7. **Impact Factor 6.5.**
61. **Sapkota A** [†], Zaridze D, Szeszenia-Dabrowska N, Mates D, Fabiánová E, Rudnai P, Janout V, Holcatova I, Brennan P, Boffetta P, Hashibe M. Indoor Air Pollution from Solid Fuels and Risk of Upper Aerodigestive Tract Cancers in Central and Eastern Europe. *Environmental Research*, **2012**; 120: 90-95. **Impact Factor 6.5.**
62. Lim SS, Vos T, ... **Sapkota A** et al. A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010. *Lancet*, **2012**; 380(9859):2224-2260, (2012). **Impact Factor 59.1.**
63. **Sapkota A**[†], Chelikowsky AP*, Nachman KE, Cohen AJ, Ritz B. Exposure to Particulate Matter and Adverse Birth Outcomes: A Comprehensive Review and Meta Analysis. *Air Quality, Atmosphere and Health*, **2012**; 5(4): 369-381. **Impact Factor 3.7.**
64. Reid BC, Ghazarian AA, Demarini DM, **Sapkota A**, Jack D, Lan Q, Winn DM, Birnbaum LS. Research Opportunities for Cancer Associated with Indoor Air Pollution from Solid-Fuel Combustion. *Environ Health Perspect*, **2012**; 120(11): 1495-1498. **Impact Factor 10.8.**
65. Rosenberg-Goldstein RE, Micallef SA., George A., Gibbs SG., **Sapkota A.**, Joseph SW. and Sapkota AR. Methicillin-resistant Staphylococcus aureus (MRSA) detected at four U.S. wastewater treatment plants. *Environ Health Perspect*, **2012**; 120(11):1551-1558. **Impact Factor 10.8.**
66. Kerridge BT*, Khan MR, and **Sapkota A**. Terrorism, civil war, one-sided violence and global burden of disease. *Medicine, Conflict and Survival*, **2012**; 28(3):199-218. **Impact Factor: None**
67. Parker JD, Kravets N, Nachman K, **Sapkota A**. Linkage of the 1999-2008 National Health and Nutrition Examination Surveys to traffic indicators from the National

Highway Planning Network. *Natl Health Stat Report*, **2012**; 45:1-16. **Impact Factor: NA.**

68. Biswas S*, McGrath JM, **Sapkota A**[†]. Quantification of ionophores in aged poultry litter using liquid chromatography tandem mass spectrometry. *J Environ Sci Health B*, **2012**; 47(10):959-66 (2012). **Impact Factor 1.9.**
69. Hashibe M, Siwakoti B, Wei M, Thakur BK, Pun CB, Shrestha BM, Burningham Z, Lee YC, **Sapkota A**. Socioeconomic status and lung cancer risk in Nepal, *Asian Pac J Cancer Prev*, **2011**; 12(4):1083-8. **Impact Factor 2.52.**
70. Hosgood D, Wei H, **Sapkota A**, Choudhury I, Bruce N, Rothman N, Lan Q. Household coal use and lung cancer: systematic review and meta-analysis of case-control studies, with an emphasis on geographic variation. *International Journal of Epidemiology*, **2011**; 40(3):719-28 (2011). **Impact Factor 10.2.**
71. Heck JE, **Sapkota A**, Vendhan G, Jetly DH, Roychowdhury S, Dikshit RP, Brennan P, Hashibe M, and Boffetta P. Diet and Hypopharyngeal Cancer: Results from a Multicenter Study in India. *Cancer Causes and Control*, **2008**; 19(10): 1329-1337. **Impact Factor 2.3.**
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74. **Sapkota A**, Hsu CC, Zaridze D, Shangina O, Szeszenia-Dabrowska N, Mates D, Fabiánová E, Rudnai P, Janout V, Holcatova I, Brennan P, Boffetta P, Hashibe M. Dietary Risk Factors for Squamous Cell Carcinoma of the Upper Aerodigestive Tract in Central and Eastern Europe. *Cancer Causes and Control*, **2008**; 19(10): 1161-1170. **Impact Factor 2.3.**
75. **Sapkota A**, Gajalakshmi V, Jetly DH, Roychowdhury S, Dikshit RP, Brennan P, Hashibe M, Boffetta P. Indoor air pollution from solid fuel usage and risk of hypopharyngeal laryngeal and lung Cancer: A multicentric case-control study from India. *International Journal of Epidemiology*, **2008**; 37(2):321-328. **Impact Factor 7.7.**
76. **Sapkota A**, Gajalakshmi V, Jetly DH, Roychowdhury S, Dikshit RP, Brennan P, Hashibe M, Boffetta P. Smokeless Tobacco and Increased Risk of Hypopharyngeal and Laryngeal Cancers: A Multicentric Case-Control Study from India. *International Journal of Cancer*, **2007**; 121(8):1793-8. **Impact Factor 7.4.**

77. McClean MD, Rinehart RD, **Sapkota A**, Cavallari JM, Herrick RF. Dermal Exposure and Urinary 1-Hydroxypyrene among Asphalt Roofing Workers. *J Occup Environ Hyg* **2007**; 4 Suppl 1:118-26. **Impact Factor 1.462.**
78. **Sapkota A**, Heidler J, and Halden R. Detection of triclocarban and two co-contaminating chlorocarbanilides in US aquatic environments using isotope dilution liquid chromatography tandem mass spectrometry. *Environmental Research*, **2007**; 103: 21-29. **Impact Factor 6.5.**
79. Heidler J, **Sapkota A**, and Halden RU. Persistence, partitioning and accumulation of the topical antiseptic triclocarban in digested municipal sludge during conventional full-scale wastewater treatment. *Environmental Science & Technology*, **2006**; 40(11) 3634-3639.. **Impact Factor 9.03.**
80. **Sapkota A**[†], Halden R, Groopman JD, Dominici F, and Buckley TJ. Urinary biomarkers of 1,3-butadiene in environmental settings using liquid chromatography isotope dilution tandem mass spectrometry. *Chemico-Biological Interactions*, **2006**; 160: 70-79. **Impact Factor 5.2.**
81. **Sapkota A**, Symons JM, Kleissl J, Wang L, Parlange MB, Ondov J, Breyse PN, Diette GB, Eggleston PA, and Buckley TJ. The impact of 2002 Canadian forest fires on the air quality in Baltimore City. *Environmental Science & Technology*, **2005**; 39: 24-32. **Impact Factor 9.03.**
82. **Sapkota A**, Williams D, and Buckley TJ. Tollbooth workers and mobile source-related hazardous air pollutants: how protective is the indoor environment? *Environmental Science & Technology*, **2005**; 39: 2936-2943. **Impact Factor 9.03.**
83. **Sapkota A**, and Buckley TJ. The mobile source effect on curbside 1,3-butadiene, benzene, and particle-bound polycyclic aromatic hydrocarbons assessed at a tollbooth. *Journal of Air and Waste Management Association*, **2003**; 53:740-748. **Impact Factor 2.9.**

Invited Presentations

1. **Sapkota A**. Climate Change and Health: Vulnerability Informed Adaptation. Workshop on Operational Research on Climate Change and Health in Nepal. World Health Organization and Nepal Health Research Council. **Kathmandu, Nepal**, November 14, 2021.
2. **Sapkota A** (Panelist). Colliding disasters: Adapting to Increasing Climate and Health Risks. **COP26 Health Pavilion. Glasgow, Scotland**. November 3, 2021.
3. **Sapkota A**. Early Warning System for Addressing Climate Change Driven Infectious Disease Burden. Asia Pacific Climate Service Workshop, **Taipei City, Taiwan**. October 22, 2021.

4. **Sapkota A.** Public Health Impacts of Climate Change –What Next? NASA Goddard Climate & Environmental Health Section. **Greenbelt MD.** September 27, 2021
5. **Sapkota A.** Global Threat – Local Impact: Maryland Perspectives on Climate Change and Health Leading into 2050: Building Resilience for Health, Climate & Biodiversity; Environmental Law Institute. **Washington DC.** April 27, 2021.
6. **Sapkota A.** Public Health Impacts of Climate Change – a Local Perspective. NASA Goddard Applied Sciences Seminar Series. **Greenbelt MD.** April 19, 2021.
7. **Sapkota A.** Responding to Climate Change: Threats and Opportunities That Lie Ahead. Keynote Speech, Nepali Academics in North America, Inaugural Conference, April 17, 2021.
8. **Sapkota A.** Climate Change, Pollen Exposure Dynamics and Burden of Allergic Disease in the Northeast United States. Virginia Clinicians for Climate Action, April 15, 2021.
9. **Sapkota A.** Climate Change, Pollen Exposure Dynamics and Burden of Allergic Disease in the Northeast United States. Sapkota A. National Oceanic and Atmospheric Administration (NOAA), April 14, 2021.
10. **Sapkota A.** Climate Change, Public Health, and the U.S. Supreme Court. Center for the Law and the Public’s Health, Johns Hopkins Bloomberg School of Public Health. January 28, 2021.
11. **Sapkota A.** Flowering Phenology, Pollen Exposure, and Allergic Disease in Changing Climate. 22nd Annual Science Immersion Workshop for Journalists. Metcalf Institute, The University of Rhode Island. June 12, 2020.
12. **Sapkota A.** Climate Change, Extreme Events and Impaired Health: Maryland Perspectives. Pennsylvania Climate Change Advisory Committee. April 30th, 2020.
13. **Sapkota A.** Early warnings for minimizing health burden in changing climate – challenges ahead. 3rd International Forum on Climate Change and Health Response. Guangzhou, China, December 18-19, 2019
14. **Sapkota A.** Too little or too much water - Implications for food security and infectious diseases in changing climate. Bahir Dar University, Ethiopia. May 2019.
15. **Sapkota A.** Extreme weather events, Population Vulnerability, and Impaired Health: Need for Community Specific Adaptation Strategies. WC Climate Change 2018: Impacts & Responses, Sep 13 - 15, 2018, Rome, Italy
16. **Sapkota A.** Climate Change, Alteration in Plant Phenology, and Allergic Diseases. CSTE Climate & Respiratory Health Meeting, Centers for Disease Control and Prevention, Atlanta, March 15, 2018
17. **Sapkota A.** Climate Change, Extreme Weather Events, and Impaired Health: Who is Most Vulnerable? Tel Aviv University, Tel Aviv, Israel. Jan 4th, 2018.

18. **Sapkota A.** Extreme Events, Vulnerable Population, and Impaired Health: Moving Forward. International Symposium on Climate Change and Health in the Asia-Pacific Region. Guangzhou, China, Dec 10-12, 2017.
19. **Sapkota A.** Climate Change, Extreme Events, and Impaired Health: Maryland Perspectives. Health in All Policy Act, Workgroup Meeting. Adelphi MD, Sept 27, 2017.
20. **Sapkota A.** Extreme Events and Impaired Health: An Unequal Risk. Environmental Impacts on Health Readiness, US Army Public Health Center, Arlington VA, June 20th, 2017.
21. **Sapkota A.** Household Air Pollution and Lung Cancer Risk in Nepal. Embassy of the United States, Kathmandu, Nepal, June 12, 2017.
22. **Sapkota A.** Climate Change and Public Health: The Need for Community-Specific Adaptation Strategies. Sun Yat-Sen University, Guangzhou, China, May 25th, 2017.
23. **Sapkota A.** Climate Change, Alteration in Plant Phenology and Allergic Diseases in the US. National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD. March 22nd, 2016.
24. **Sapkota A.** Climate Change, Extreme Events and Impaired Health: Local to National Perspectives. National Center for Health Statistics, Hyattsville, MD. June 29th, 2016.
25. **Sapkota A.** Air Pollution and Respiratory Diseases – A LMIC Perspectives. Laboratory of Epidemiology and Population Science, National Institute on Ageing, Bethesda MD. August 19th, 2016
26. **Sapkota A.** Extreme Heat Events, Change in Phenology and Hay Fever. Invited Presentation. 2015 National Conference on Health Statistics, Bethesda MD. August 26th, 2015.
27. **Sapkota A.** Remote Sensing and Urban Health. Remote Sensing Integrated Assessment Modeling. Aspen Global Change Institute, Aspen CO. October 13th, 2015.
28. **Sapkota A.** Assessing Potential Health Impacts of Unconventional Natural Gas Development and Production Through Hydraulic Fracturing. Department of Environmental & Occupational Health, George Washington University Milken Institute School of Public Health, Washington DC. October 26th, 2015.
29. Boyle M., Sangramurthy T, Wilson S, Sapkota A, Milton D, The Maryland Experience: Using HIA Methodology to Evaluate the Public Health Impacts Associated with Unconventional Natural Gas Development and Production, National HIA Conference, Washington DC, 2015
30. **Sapkota A.** Extreme Temperature Events and Risk of MI in Maryland. Department of Health and Mental Hygiene, Baltimore, MD. February 23, 2015.

- 31. Sapkota A.** Potential Public Health Impacts of Natural Gas Development and Production in the Marcellus Shale in Western Maryland. Maryland Environmental Health Network. Baltimore MD, September 12, 2014.
- 32. Sapkota A.** Climate Change, Extreme Events and Salmonellosis – Are Coastal Area Truly Vulnerable? Department of Health and Mental Hygiene, Baltimore, MD. September 22, 2014
- 33. Sapkota A.** Air Pollution and Respiratory Health. International Workshop on Urban and Regional Air Quality Shanghai, China. October 18, 2013
- 34. Sapkota A.** Household Air Pollution and Burden of Disease. Council on Environment, Inaugural Junior Faculty Award Lecture. College Park, MD September 11, 2013.
- 35. Sapkota A.** Exposure to Traffic Related Air Pollutants and Respiratory Health Outcomes. Environmental Justice and Environmental Health Disparities Symposium, College Park, MD, 2012.
- 36. Sapkota A.** Indoor Air Pollution from Solid Fuels and Cancer Risk. Conference on Risk Assessment and Evaluation of Predictions. October 13, 2011, Silver Spring, MD.
- 37. Sapkota A.** Air Pollutants in Our Environment: From Sources to Health Effects. Smithsonian Resident Associate Program. Washington DC, March 5th, 2011.
- 38. Sapkota A.** Air Pollution and Adverse Respiratory Health Outcomes: How Does Epidemiology Work? Department of Atmospheric and Oceanic Science, University of Maryland, College Park, MD, October 29, 2009.
- 39. Sapkota A.** Indoor air pollution and cancer risk in low income countries. B.P. Koirala Memorial Cancer Hospital, Bharatpur, Chitwan Nepal. April 2009.
- 40. Sapkota A, Chelikowski A, Nachman K, Ritz B.** Exposure to Particulate Matter and Adverse Birth Outcomes: A Comprehensive Review and Meta- Analysis. Expert Committee Meeting on Outdoor Air Pollution for the Global Burden of Disease, Harvard University, MA, April 2009.
- 41. Sapkota A.** Indoor air pollution from solid fuels and risk of hypopharyngeal/laryngeal and lung cancers: a multicentric case-control study from India. UAB Epidemiology & Sparkman Seminar Series. University of Alabama Birmingham School of Public Health, March 31st 2008.
- 42. Sapkota A.** Exposure Characterization and Biomarker Evaluation for 1,3-Butadiene. Division of Environmental Health Sciences, The Ohio State University College of Public Health, Columbus, Ohio. March 7, 2006.
- 43. Sapkota A.** Traffic Related Exposure to 1,3-Butadiene. Occupational and Environmental Epidemiology Branch, National Cancer Institute. July 14, 2006.
- 44. Sapkota A.** Use of LC/MS-MS to Determine the Major Mercapturic Acids of 1,3-butadiene Resulting from Low Level Environmental Exposure. Current Bioanalytical

Applications in Mass Spectrometry, The National Institutes of Health, Bethesda, April 2004.

Refereed Conference

1. Sapkota A, Li L, Song H, Zhou Y, Asrar G. Changes in Timing of Spring Onset, Pollen Exposure, and Burden of Allergic Disease in the Northeastern United States. 33rd Annual Conference of the International Society for Environmental Epidemiology (ISEE). New York City, August 23-26, 2021.
2. Zhou Y, Li X, Asrar G, Sapkota A. Recent advancements in the use of remote sensing observations to inform ground level pollen dynamics. 33rd Annual Conference of the International Society for Environmental Epidemiology (ISEE). New York City, August 23-26, 2021.
3. Richard RV, Turpin R, He H, Raimann J, Kotanko P, Maddux F, Sapkota AR, Liang XZ, Puett R, He X Sapkota A. Investigating the role of clinical measures before dialysis treatment as mediators in the association between ambient temperature and mortality/hospital admissions. 33rd Annual Conference of the International Society for Environmental Epidemiology (ISEE). New York City, August 23-26, 2021.
4. Richard RV, He H, Raimann J, Kotanko P, Maddux F, Sapkota AR, Liang XZ, Puett R, He X Sapkota A. Cumulative joint effects of air pollution and extreme heat events among hemodialysis patients. 33rd Annual Conference of the International Society for Environmental Epidemiology (ISEE). New York City, August 23-26, 2021.
5. **Sapkota A**, Dong Y, Li L, Asrar G, Zhou Y, Li X, Coates F, Spanier AJ, Matz J, Bielory L, Breitenother AG, Mitchell C, Jiang C. Association Between Changes in Timing of Spring Onset and Asthma Hospitalization in Maryland. 32nd Annual Conference of the International Society for Environmental Epidemiology. August 24-27, 2020.
6. Randell H, Jiang C, Murtugudde R, Liang XZ, Sapkota A. 32nd Annual Conference of the International Society for Environmental Epidemiology. August 24-27, 2020. Food insecurity and compound environmental shocks in Nepal: Implications for a changing climate
7. Li L, Jiang C, Murtugudde R, Liang XZ, Sapkota A. Spatiotemporal variation in extreme heat events (EHs) and extreme precipitation events (EPEs) across 150 most populated cities of the world. 32nd Annual Conference of the International Society for Environmental Epidemiology. August 24-27, 2020.
8. Remigio R, Turpin R, Raimann J, Kotanko P, Maddux F, Usvyat L, He X, Sapkota A. Physiological changes before dialysis treatment can mediate the effects of extreme heat events on hospital admission risk. 32nd Annual Conference of the International Society for Environmental Epidemiology. August 24-27, 2020.

9. Adams N, Mathews S, Dhimal M, Sapkota A. Impact of monsoon variability on under-five diarrheal disease risk in Nepal. 32nd Annual Conference of the International Society for Environmental Epidemiology. August 24-27, 2020.
10. Song H, Li L, Sapkota A. Association between Plant Phenology and Asthma Hospitalization in New York State. 32nd Annual Conference of the International Society for Environmental Epidemiology. August 24-27, 2020.
11. Sapkota A, Mitchell C, Sapkota AR, Jiang C. Extreme Precipitation Events and Salmonellosis Risk in the United States: Are Coastal Communities More Vulnerable? Gordon Research Conference: Urbanization, Water and Food Security. July 21-26 (2019), Hong Kong, China.
12. Quirós-Alcalá L, Boyle M, , Zhu L, **Sapkota A**, Rule AM, Kavi LE, Pool W, and Thomas SB. Occupational exposures to phthalates among U.S. hairdressers primarily serving an ethnically diverse clientele. Joint International Society of Exposure Science (ISES) and Indoor Air Quality and Climate (ISIAQ) Conference, Aug 2019, Kaunas, Lithuania.
13. Remigio RV*, Rainmann J, Maddux FW, Usvyat L, He X, Kotanko P, **Sapkota A**. Single-day inclement weather events is an adherence barrier for treatment among hemodialysis patients in urban northeastern cities. Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology. Ottawa, ONT, CAN 2018 Aug 26-30.
14. Remigio RV*, Rainmann J, Maddux FW, Usvyat L, He X, Kotanko P, **Sapkota A**, Kinney P. Impact of extreme heat on end-stage renal disease patients in the Northeast US using selected clinical outcomes. Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology. Ottawa, ONT, CAN 2018 Aug 26-30.
15. Remigio RV*, Rainmann J, Maddux FW, Usvyat L, He X, Kotanko P, **Sapkota A**. Understanding the role of inclement weather on missed dialysis treatments among end-stage renal disease (ESRD) patients in selected Northeastern cities in the United States. Local Solutions: Eastern Climate Preparedness Conference. Manchester, NH. 2018 30 Apr - 2 May.
16. Kulkarni P, Raspanti GA**, Bui AQ, Bradshaw RN, Coppock C, Sharma M, **Sapkota A**, Sapkota AR. Zero-valent Iron-Biosand Filtration is Capable of Reducing Antimicrobial and Generic E. coli Concentrations in Unbuffered Conventionally Treated Reclaimed Water: A CONSERVE Project. International Association for Food Protection Annual Meeting, Tampa, Florida, July 9-12, 2017.
17. Asrar G, Zhou Y, LI X, and **Sapkota A**. Developing Pollen Allergy Risk Maps from Remote Sensing Observations for Public Health Advisories and Warning. 97th American Meteorological Society Annual Meeting. Seattle, WA, January 22-26, 2017.
18. Boyle M, Soneja S**, Quiros-Alcala L, Sapkota AR, Dalemarré L, Sangaramoorthy T, Wilson S, Milton D, **Sapkota A**. Examining the association between natural gas compressor stations and residential noise in West Virginia, USA. 26th Annual Meeting

of the International Society for Exposure Science (ISES). Utrecht, Netherlands. October 21, 2016.

19. Kulkarni P, Olson N, Raspanti G*, **Sapkota A**, Sapkota AR. Occurrence of Antibiotic Residues in Wastewater and Reclaimed Water in the United States. Poster presentation. 2016 Water and Health Conference: Where Science Meets Policy, University of North Carolina at Chapel Hill, Chapel Hill, NC. October 10-14, 2016.
20. Khanjani N, Jiang S**, Soneja S**, Asrar G, **Sapkota A**. Assessing the Impact of the El Niño Southern Oscillation Phenomenon upon Extreme Weather/Climate Events at the Local and Regional Level Across the Contiguous United States. Oral Presentation, 26th Annual Meeting of the International Society of Exposure Science (ISES). Utrecht, Netherlands. October 9-13, 2016.
21. **Sapkota A**, Parker J, Akinbami L, Curriero F, Ganguly S, Ziska L, Murtugudde R, Jiang C. Alteration in plant phenology and hay fever prevalence among US adults: combined evidence from satellite data and National Health Interview Survey 2002-2013. Oral Presentation, 28th Conference of the International Society for Environmental Epidemiology (ISEE). Rome, Italy. September 1-4, 2016.
22. Soneja S**, Liu A, Jiang C, Huang C, Mitchell C, Beck K, **Sapkota A**. Frequency of Extreme Events and Injury Risk From Motor Vehicle Accidents in Maryland, USA. Poster Presentation, 28th Conference of the International Society for Environmental Epidemiology (ISEE). Rome, Italy. September 1-4, 2016.
23. Soneja S**, Jiang C, Fisher J, Blythe D, Mitchell C, Sapkota AR, **Sapkota A**. Role of El Niño Southern Oscillation (ENSO) in Extreme Event Related Adverse Health Outcomes in Maryland, USA. Oral Presentation, 28th Conference of the International Society for Environmental Epidemiology (ISEE). Rome, Italy. September 1-4, 2016.
24. Jiang C**, Sapkota A, Curriero F. Extreme Temperature Events and Onset of Greening in the Eastern US: Implications for Respiratory Diseases. Poster Presentation. 25th Annual Meeting of the International Society of Exposure Science (ISES). Henderson, Nevada. October 18-22, 2015.
25. Soneja S**, Jiang C, Romeo C, Mitchell C, **Sapkota A**. Vulnerability Assessment for Hospitalization Due to Asthma and Exposure to Extreme Weather Events in Maryland. Oral Presentation. 25th Annual Meeting of the International Society of Exposure Science (ISES). Henderson, Nevada. October 18-22, 2015.
26. Soneja S**, Jiang C, Mitchell C, Sapkota AR, **Sapkota A**. Examining the exposure to extreme weather events and risk of Campylobacteriosis in Maryland. Oral Presentation. 25th Annual Meeting of the International Society of Exposure Science (ISES). Henderson, Nevada. October 18-22, 2015.
27. Upperman C*, Parker JD, Akinbami L, Jiang C, He X, Murtugudde R, Curriero F, Ziska L, Sapkota A. The Risk of Exposure to Climate Specific Extreme Heat and Hay Fever Prevalence Among Adults in the Continental United States: Linkage of the National

Health Interview Survey. Oral Presentation. 25th Annual Meeting of the International Society of Exposure Science (ISES). Henderson, Nevada. October 18-22, 2015.

28. Fisher JA, Jiang C**, Upperman C*, Mitchell C, Murtugudde R, Puett R, **Sapkota A.** Extreme heat in summer and acute myocardial infarction hospitalizations in Maryland. 27th Conference of the International Society for Environmental Epidemiology (ISEE). Sao Paulo, Brazil. August 30-September 3, 2015.
29. Soneja S**, Jiang C**, Romeo C*, Mitchell C, **Sapkota A.** Risk of hospitalization for asthma related to extreme temperature and precipitation events in Maryland. 27th Conference of the International Society for Environmental Epidemiology (ISEE). Sao Paulo, Brazil. August 30-September 3, 2015.
30. Soneja S**, Jiang C, Mitchell C, Sapkota AR, **Sapkota A.** Campylobacteriosis risk of hospital admission related to extreme weather event frequency in Maryland. Oral Presentation. 27th Conference of the International Society for Environmental Epidemiology (ISEE). Sao Paulo, Brazil. August 30-September 3, 2015.
31. Raspanti G*. , Siwakoti B, Thakur BK, Pun CB, Shrestha BM, Hashibe M., **Sapkota A.** The Influence of Cooking Fuel on Lung Cancer Risk in Nepal. 26th Annual Meeting of the International Society for Environmental Epidemiology. Seattle, August 24-28, 2014.
32. Raspanti G.*, Siwakoti B, Thakur BK, Pun CB, Shrestha BM, Hashibe M., **Sapkota A.** Urinary Biomarker of Household Air Pollution: Findings from Nepal. International Society of Exposure Science 24th Annual Meeting. Cincinnati OH, October 12-16, 2014.
33. Raspanti G.*, Siwakoti B, Thakur BK, Pun CB, Shrestha BM, Hashibe M., **Sapkota A.** Traditional vs. Commercial Tobacco Use and Lung Cancer Risk in Nepal. 141st annual meeting of the American Public Health Association, Boston, MA. November 2-6, 2013.
34. Sapkota AR., Jiang C., Blythe D., **Sapkota A.** Increased Frequency of Unusually Hot Days and Foodborne Illness in Maryland. Joint ISEE/ISES and ISIAQ Conference, Basel, Switzerland. August 19-23, 2013
35. Romeo, C.*, Murtugudde R., Parker, JD., **Sapkota, A.** Exposure to an Aggregate Climate Change Metric and Respiratory Health Outcomes in the Continental US. Joint ISEE/ISES and ISIAQ Conference, Basel, Switzerland. August 19-23, 2013
36. Montresor-Lopez J., Yanosky J., **Sapkota A.**, He X., Hibbert J., Puett R. Short-term Effects of Ambient Ozone on Stroke Risk in South Carolina, USA. Joint ISEE/ISES and ISIAQ Conference, Basel, Switzerland. August 19-23, 2013.
37. Biswas S. *, McGrath J.M., **Sapkota A.** Ionophore sorption in coastal plain soils- preliminary study. Presentation at the International Annual ASA-CSSA-SSSA Joint Meeting, Cincinnati, Ohio. October 21-24, 2012.
38. Biswas S. *, McGrath J.M., **Sapkota A.** Quantification of Ionophores in Poultry litter using Liquid Chromatograph Tandem Mass Spectrometric technique. Poster

presentation at 7th Annual LC/MS/MS workshop on Env. Appl. and Food Safety, Buffalo, NY. June 13-14, 2011.

39. Romeo, C.*, Mehta, S., Parker, JD., **Sapkota, A.** Indicators for Examining the Potential Chronic Respiratory Effects of Climate Change. NSF/AAAS Emerging Researchers National (ERN) Conference in STEM 2nd Annual Meeting, Atlanta, Georgia, February 23-26, 2011.
40. Rosenberg Goldstein RE, Micallef SA, George A, Gibbs SG, **Sapkota A**, Joseph SW, and Sapkota AR. Survival of methicillin-resistant *Staphylococcus aureus* in Secondary Treated Wastewater. American Society for Microbiology 111th General Meeting, New Orleans, LA, May 2011.
41. Fransen M.* Perodin J.*, He X., **Sapkota A.** Influence of weekdays, weekends, bandhas and weather conditions on particulate matter (PM10) concentrations in the Kathmandu Valley in Nepal. The annual conference of ISES. Baltimore Maryland. October 23-27, 2011
42. Romeo C.*, Mehta S., Parker J., **Sapkota A.** Indicators for Examining Potential Chronic Respiratory Effects of Climate Change. The annual conference of ISES. Baltimore Maryland. October 23-27, 2011
43. Parker J., Mehta S., Murtugudde R., **Sapkota A.** Linkage of US National Health Interview Survey to climate indicators: a resource for understanding the impact of change. The annual conference of ISEE. Barcelona Spain. September 13-16, 2011
44. Mehta S., Parker J., Murtugudde R., **Sapkota A.** Application of climate indicators to US child population: trends in temperature variability. Abstract accepted for presentation at the International Society for Environmental Epidemiology 23rd Annual Meeting, Barcelona, Spain, September 13-16, 2011
45. Hashibe M, Siwakoti B, Wei M, Thakur BK, Pun CB, Shrestha BM, Burningham Z, Lee YA, **Sapkota A.** Disparities in lung cancer in the Nepalese population. American Society for Preventive Oncology Annual Meeting, Las Vegas, Nevada. 2011
46. Hashibe M, Siwakoti B, Thakur BK, Pun CB, Shrestha BM, Burningham Z, **Sapkota A.** Risk factors for lung cancer in Nepal. AACR Third Annual Science of Health Disparities Meeting, Miami, Florida. 2010
47. Rosenberg Goldstein RE, Micallef SA, George A, **Sapkota A**, Gibbs SG, Joseph SW, Sapkota AR. Reductions of methicillin-resistant *Staphylococcus aureus* and vancomycin-resistant *Enterococcus* spp. at a U.S. tertiary wastewater treatment plant. Poster Presentation, American Society for Microbiology, 110th General Meeting, San Diego, CA, May 2010.
48. Rosenberg Goldstein RE, Micallef SA, George A, **Sapkota A**, Gibbs SG, Joseph SW, Sapkota AR. Evaluating occupational exposures to antibiotic-resistant bacteria from wastewater reuse. Oral presentation by RE Rosenberg Goldstein, Water and Health:

Where Science Meets Policy 2010 Conference, University of North Carolina at Chapel Hill, Chapel Hill, NC, October 2010.

49. Biswas S. *, McGrath J.M., **Sapkota A.** Quantification of Aged Veterinary Anticoccidials in Poultry Manure using LC/MS/MS. Oral presentation at International Annual ASA-CSSA-SSSA Joint Meeting, Long Beach, CA, Oct 31-Nov 4, 2010.
50. Biswas S. *, McGrath J.M., **Sapkota A.** Quantification of Aged Veterinary Anticoccidials in Poultry Manure using LC/MS/MS. Annual Bioscience Day, University of Maryland College Park, 2010.
51. Mehta S., Parker J., Akinbami L., Murtugudde R., **Sapkota A.**, Climate events and health outcomes: data linkage from two large national databases. The joint annual conference of ISES/ISEE. Seoul, Korea. August 29-Sept 1, 2010.
52. Parker J., Eftim S., Kravets N., Akinbami L., Shenassa E., **Sapkota A.** Disparities in traffic exposure in the United States. The joint annual conference of ISES/ISEE. Seoul, Korea. August 29-Sept 1, 2010.
53. Eftim S.**, Parker J., Kravets N., Nachman K., **Sapkota A.** Validation of Traffic Exposure Surrogates Against a Biomarker of Internal Dose among Non-Smoking US Population. The joint annual conference of ISES/ISEE. Seoul, Korea. August 29-Sept 1, 2010.
54. **Sapkota A.**, Eftim S.**, Nachman KE., Kravets N., Shenassa E., Akinbami L., Parker J. Traffic Exposure and Asthma Exacerbation among a Nationally Representative Sample of the US Population. The joint annual conference of ISES/ISEE. Seoul, Korea. August 29-Sept 1, 2010.
55. Perodin J. *, Hada, J., **Sapkota A.** Seasonal Variability In Particulate Matter Concentration In Kathmandu Valley. The 19th Annual Meeting of the International Society of Exposure Science. Minneapolis, USA. November 1-5, 2009.
56. Biswas S. *, McGrath J.M., **Sapkota A.** Characterization of Ionophores in Poultry litter and Litter Amended Soils Using Liquid Chromatograph Tandem Mass Spectrometer. Oral presentation at International Annual ASA-CSSA-SSA Joint Meeting, Pittsburgh, PA, Nov 1-5, 2009. (Abstract published)
57. Rosenberg, R.E., Micallef, S.A., George, A., **Sapkota, A.**, Gibbs, S.G., Joseph, S.W., Sapkota, A.R. Irrigation workers' exposures to antimicrobial-resistant bacteria and antimicrobials present in reclaimed wastewater. American Public Health Association Annual Meeting, Philadelphia, USA. November, 2009.
58. **Sapkota A.**, Hashibe M., Dikshit R., Jetty D.H., Chattopadhyay U., Vendhan G., Brennan P., Boffetta P. Risk Factors of Hypopharyngeal/Laryngeal and Lung Cancer Among Indian Men. The 19th International Conference on Epidemiology in Occupational Health. Banff, Alberta, Canada, October 2007
59. Williams D, **Sapkota A.**, Geyh A, Hume E, Barnum B., Oxendrider J., Cahill C., and Breyse P.. Characterization of Particulate Matter in Different Bores of a Tunnel with

Distinct Vehicle Composition and Concentrated Emissions. The joint annual conference of ISEA/ISEE. Paris, 2006.

- 60. Sapkota A.**, Halden R., Groopman J.D., Dominici F., and Buckley T.J. Exposure Characterization and Biomarker Evaluation of 1,3-Butadiene Resulting from Automobile Exhaust. International Society for Exposure Analysis 14th Annual Conference, Philadelphia PA, October 2004.
61. Brown S., **Sapkota A.**, Burke T., and Buckley T.J. Air toxin exposure, risk, and environment-related cancer in Maryland. American Public Health Association, 132nd Annual Meeting: Public Health and the Environment, Washington DC, November 2004.
- 62. Sapkota A.**, Symons J.M., Kleissl J., Ondov J., and Buckley T.J. The Impact of Canadian Forest Fires on the Air Quality in Baltimore City: A Case Study of Long-Range Pollutant Transport. International Society for Exposure Analysis 13th Annual Conference, Stresa Italy, September 2003.
- 63. Sapkota A.**, and Buckley T.J. Mobile Source Related Personal Exposure to 1,3-Butadiene. International Society for Exposure Analysis 13th Annual Conference, Stresa Italy, September 2003.
- 64. Sapkota A.**, and Buckley TJ. The mobile source effect on curbside 1,3-butadiene, benzene, and particle-bound polycyclic aromatic hydrocarbons assessed at a tollbooth. The 95th Annual Conference of the Air and Waste Management Association, Baltimore, MD 2002.
- 65. Sapkota A.**, Geyh A, Moradian R and Buckley TJ. Traffic Related Indoor and Outdoor VOCs in an Urban Environment. International Society for Exposure Analysis 10th Annual Conference, Monterey California, October 2000.

Non-Refereed Presentations

1. Sapkota A. Climate Change and Health: A Local Perspective. Baylor University Student PreMed Student Organization. October 26, 2021.
2. Sapkota A. Human Health Impact of Climate Change: Maryland Perspective. Climate Emergency Mobilization Workgroup, Fredrick County MD. April 8th, 2021.
3. Sapkota A. Climate Change, Extreme Events, and Impaired Health: Maryland Perspectives. Maryland Association of Counties, Annual Conference. Ocean City, MD. August 15th, 2019
4. R. Remigio, J. Rainmann , F. Maddux, X. He., P. Kotanko, A. Sapkota. Single-day inclement weather event as an adherence barrier among hemodialysis patients in urban northeastern cities. Public Health Research@Maryland. College Park, MD. 2018 Apr 3.

5. Remigio R, Topping A, Raimann J, Kotanko P, Maddux FW, **Sapkota A**, Kinney P. Effects of extreme heat on clinical outcomes among hemodialysis patients: preliminary findings from the HEAT-HD study Public Health Research@Maryland. College Park, MD. 2018 Apr 3.
6. Jiang C, Zambrana J, Blythe D, Mitchell C, Sapkota AR, **Sapkota A**. Climate Change, Extreme Events and Increased Risk of Salmonellosis - Results from Multi-State Analysis: 2002-2012. Public Health Research@Maryland. College Park, MD. 2018 Apr 3.
7. **Sapkota A**. Climate Change, Extreme Events, and Impaired Health: Maryland Perspectives. Southern High School, MD, Nov 27th, 2017.
8. **Sapkota A**. Climate Change, Alteration in Plant Phenology, and Allergic Diseases. Maryland Public Health Association Annual Meeting, College Park, Oct 7th, 2017.
9. **Sapkota A**. Maryland Health, Communities and Environment Who is most at risk & Where are the most vulnerable communities? Summary of results from DHMH-UMD Project. Building Resilient Communities in Maryland: A Stakeholder Forum. Frostburg, MD, December 9, 2016
10. Kulkarni P*, Olson N*, Raspanti G**, Sapkota A, **Sapkota AR**[†]. Occurrence of Antibiotic Residues in Wastewater and Reclaimed Water in the United States. Poster presentation. University of Maryland Bioscience Day. College Park, Maryland. October 25, 2016.
11. **Sapkota A**. Climate Change and Human Health: Local and National Perspectives. Maryland Climate Coalition, Climate Stewards of Greater Annapolis. Annapolis, MD, March 17th 2016.
12. **Sapkota A**. Climate Change and Allergic Diseases: A Disparity in Risk. Climate Action 2016/Forum. Panel on Climate Change Resilience/Adaptation. College Park, MD. May 4th 2016.
13. Mitchell C, **Sapkota A**. Maryland Public Health Strategy for Climate Change. Public Health Research at Maryland Day, College Park, MD, April 9, 2015.
14. **Sapkota, A.**, Climate Change, Extreme Temperature Events and Chronic Diseases, Public Health Research at Maryland Day, College Park, MD, 2015.
15. Soneja S, Jiang C, Romeo C, Mitchell C, Sapkota A., Does the Frequency of Extreme Weather Events Impact Campylobacteriosis Risk?, Public Health Research at Maryland Day, College Park, MD, 2015
16. Fisher JA, Jiang C, Upperman C, Mitchell C, Murtugudde R, Puett R, Sapkota A., Extreme Temperature Events (summertime) and Acute Myocardial Infarction in Maryland, Public Health Research at Maryland Day, College Park, MD, 2015

17. Sapkota A. Potential Public Health Impacts of Natural Gas Development and Production in the **Marcellus Shale in Western Maryland. Environmental Justice Symposium, College Park, MD. December, 2014.**
18. Milton D., Wilson S., Boyle M., Sangramurthy T., **Sapkota A.** Marcellus Shale Public Health Study Final Progress Report. Garrett College, McHenry, MD. June 28, 20 14
19. Raspanti G., Siwakoti B, Thakur BK, Pun CB, Shrestha BM, Hashibe M., **Sapkota A.** Ethnic Variation in Consumption of Traditional Tobacco and Risk of Lung Cancer in Nepal . Public Health Research Day, University of Maryland College Park, April, 2014
20. Raspanti G., Siwakoti B, Thakur BK, Pun CB, Shrestha BM, Hashibe M., **Sapkota A.** Traditional vs. Commercial Tobacco Use and Lung Cancer Risk in Nepal. Public Health Research Day, University of Maryland College Park, April, 2013
21. Romeo C, Parker J., Murtugudde R., **Sapkota A.** Indicators for Examining the Potential Chronic Respiratory Effects of Climate Change. University of Maryland, Graduate Student Research Interaction Day, College Park, Maryland, April 11, 2012.
22. Biswas S., McGrath J.M., **Sapkota A.** Quantification of Ionophores in Poultry litter using Liquid Chromatograph Tandem Mass Spectrometric technique. Oral presentation at ASA-CSSA-SSA NE Branch Meeting, Maryland, 2011.
23. **Sapkota A.** Indoor Air Pollution from Solid Fuels and Cancer Risk. Conference on Risk Assessment and Evaluation of Predictions. October 13, 2011, Silver Spring, MD
24. **Sapkota A.** Air Pollution and Respiratory Health. Johns Hopkins School of Advanced International Studies. Washington DC. September 29, 2011.
25. Rosenberg Goldstein RE, Micallef SA, George A[#], **Sapkota A**, Gibbs SG, Joseph SW, Sapkota AR. Survival of methicillin-resistant *Staphylococcus aureus* in secondary treated wastewater. Oral presentation by RE Rosenberg Goldstein. Graduate Research Interaction Day. University of Maryland School of Public Health. College Park, MD. April 2011.
26. Rosenberg Goldstein RE, Micallef SA, George A , **Sapkota A**, Gibbs SG, Joseph SW, Sapkota AR. Antibiotic-resistant bacteria in wastewater and resulting occupational exposures. Oral presentation by RE Rosenberg Goldstein. The Clark School of Engineering Sustainability Workshop. University of Maryland College Park. College Park, MD. April 2010.
27. Rosenberg Goldstein RE, Micallef SA, George A , **Sapkota A**, Gibbs SG, Joseph SW, Sapkota AR. Irrigation workers' exposures to antimicrobial-resistant bacteria and antimicrobials present in reclaimed wastewater. Poster Presentation. University of Maryland Bioscience & Technology Review Day. College Park, MD. November 2009.
28. Rosenberg Goldstein RE, Micallef SA, George A , **Sapkota A**, Gibbs SG, Joseph SW, Sapkota AR. Irrigation workers' exposures to antimicrobial-resistant bacteria and antimicrobials present in reclaimed wastewater. Poster Presentation. University of

Maryland School of Public Health, Research Interaction Day. College Park, MD.
September 2009.

29. Sapkota A, Nachman K, Perodin J, Ritz B, Shenessa E. Exposure to Traffic Exhaust and Asthma Exacerbation: A Systematic Meta Analysis. University of Maryland, Graduate Student Research Interaction Day, College Park, Maryland, April, 2008.

FUNDING

Ongoing:

NSF/NOAA/Belmont Forum Sapkota, Amir (PI) 07/1/2020-6/30/2023
AWARD-APR: Addressing Extreme Weather Related Diarrheal Disease Risks in the Asia Pacific Region.

The goal of this Multinational Consortium is to develop a regional early warning system with sub-seasonal outlook to minimize diarrheal disease burden related to extreme weather events in the Asia Pacific Region.

Role: Principal Investigator.

NIEHS/NSF Huq, Anwar (PI) 07/01/2018-06/31/2023
Effects of Climate Change on Prevalence and Environmental Niches of Clinically Important Vibrios in the Chesapeake Bay

The goal of this project is to characterize potential exposure pathways to clinically relevant vibrios in the Chesapeake Bay and how they are influenced by extreme weather events.

Role: Co-I.

NIOSH Gurumurthy, R. (PI) 09/01/2021-08/31/2026
Program on Occupational Health and Safety Education on Emerging Technologies - Mid Atlantic Partnership.

The goal of this project is to develop multi-institutional occupational health training program.

Role: Site PI

NSF Sapkota, Amy (PI) 08/01/2018-07/31/2023
University of Maryland (UMD) Global STEWARDS (STEM Training at the Nexus of Energy, Water Reuse and Food Systems)

The goal of this proposed NSF NRT training grant is to establish an interdisciplinary, experiential graduate education model focused on innovations at the nexus of energy, water reuse and food systems.

Role: Co-PI

City of Westminster Davis, A (PI) 05/01/2021-04/30/2022
Water Quality Evaluation of Pilot Project Wastewater Potable Reuse

The objective of this project is to evaluate the effectiveness of advanced water treatment technology to remove chemical and biological contaminants from water supplies.

Role: Co-I

Pending

NIH Boudreaux, M (PI) 06/01/2022-05/31/2027
Wildfire and Infant Health

The overall goal of this project to link climate change driven extreme heat events and air pollution from wild fires to risk of adverse birth outcomes in the Contiguous United States.

Role: Co-I

EPA Sapkota, A(PI) 10/01/2022-09/30/2025
MD-PACT: Maryland Partnership to Enhance Community Resilience Against Climate Change Driven Compound Hazard.

The goal of this proposed project to enhance community resilience to extreme heat events and high air pollution episodes with a particular emphasis among Baltimore residents.

Role: Principal Investigator

NIEHS Sapkota, A (PI) 12/2021-11/2026
National Scale Assessment of the Impact of Extreme Heat and High Pollution Episodes on End Stage Renal Disease Patients.

The overall objective of this proposed project is the conduct a national scale vulnerability assessment of the impact of climate change on individuals living with end stage renal disease (ESRD).

Role: Principal Investigator

Completed:

3/12-9/21 *“Maryland Climate and Health Project.”*
Sponsor: Centers for Disease Control and Prevention via Maryland Department of Health.
Role: **Site PI**

3/16-3/20 *CONSERVE: A Center of Excellence at the Nexus of Sustainable Water Reuse, Food and Health (Award #2016-68007-25064)*
Sponsor: U.S. Department of Agriculture, National Institute for Food and Agriculture
Role: **Laboratory Core Director and Co-Project Director** (PI/Project Director: Amy Sapkota).

1/17-6/17 Fulbright Senior Researcher Scholarship, Nepal. A Joint Collaboration To Address Household Air Pollution and Lung Cancer Risk in Nepal
Sponsor: U.S. Department of State
Role: **Principal Investigator**

- 8/15 -7/17 *“ScienceBEAT: An Innovative Educational Partnership to Increase Understanding of Climate Change”*.
Sponsor: UMD Council on Environment
Role: **Co-Investigator**.
- 5/13-4/16 *“National Scale Assessment of the Impact of Climate Change on Asthma Morbidity.*
Sponsor: National Institute of Environmental Health Sciences
[Grant # 1R21ES021422-01A1]
Role: **Principal Investigator**
- 2/15 – 1/17 *“Testable Exosome Signatures of Influenza Threats”*
Sponsor: Intelligence Advanced Research Project Activity (IARPA)
Role: **Co-Investigator** (PI: Dr. Milton)
- 8/13-5/14 *“Marcellus Shale Public Health Report”*
Sponsor: Maryland Department of Health and Mental Hygiene
Role: **Co-Investigator** (PI Dr. Milton)
- 6/09-2/12 *R03, “Spray irrigation workers’ exposures to antibiotic-resistant bacteria and antimicrobials from reclaimed wastewater.”*
Sponsor: National Institute for Occupational Safety and Health, R03 Small Grants Program, [Grant # 1-R03-OH009598-01]
Role: **Co-Investigator**
- 4/13-3/14 *“Quantifying human health effects from climate change in an integrated assessment model”*
Sponsor: ADVANCE Program Interdisciplinary and Engaged Research Seed Grant
Role: **Co-Investigator** (PI: Dr. Gilmore)
- 9/09-10/10 *“Linkage of Meteorological Data with NHIS Respondents for Research on Climate Change and Respiratory Health Outcomes”*
Sponsor: Centers for Disease Control and Prevention
Role: **Principal Investigator**
- 01/09-12/10 *“Environmental Risk Factors of Lung Cancer in Low to Middle Income Countries”*
Sponsor: International Agency for Research on Cancer (IARC)
Role: **Co-Principal Investigator** (additional Co-PI: Dr. Mia Hashibe)
- 06/08-09/09 *“Investigation of Air Quality Around Public Schools”*
Sponsor: USA Today
Role: **Principal Investigator**

- 7/09-6/10 *“Occupational Exposure of Bus Drivers to Volatile Organic Compounds and Particulate Matter”*
Sponsor: National Institute for Occupational Safety and Health, Education and Research Center, Pilot Project Research Training Award.
- 08/02-07/04 *“Assessment of Highway Toll Booth Worker’s Exposures to 1,3-Butadiene”*
Sponsor: National Institute for Occupational Safety and Health, Education and Research Center, Pilot Project Research Training Award
Role: **Principal Investigator**
- 08/00-08-03 *“Mobile Source Effect on Ambient Concentration of Hazardous Air Pollutants”*
Sponsor: National Institute for Occupational Safety and Health, Education and Research Center, Pilot Project Research Training Award (Grant # T42/CCT310419).
Role: **Principal Investigator**
- 08-02-08-03 *“Exposure to Mobile Source Related Air Pollutants among Inner City Baltimore Residents.”*
Sponsor: Johns Hopkins University Risk Sciences and Public Policy Institute, Pilot Project Award

HONORS AND AWARDS

1. Clark University International Scholarship, 1993-1998
2. Clark University, Deans List (First Honors), 1993, 1994, 1997
3. International Society for Exposure Analysis Travel Scholarship, 2000
4. The Johns Hopkins School of Hygiene and Public Health Scholarship, 1999-2004
5. Cornelius W. Kruse Award for Outstanding Graduate Studies, Johns Hopkins University, 2004
6. Research Training Fellowship Awardee, International Agency for Research on Cancer, 2005
7. Delta Omega, Alpha Chapter, Honorary Public Health Society, 2012
8. Council on Environment, Outstanding Faculty Award, 2013.
(This award recognizes the most promising young faculty member who has made a significant impact on environmental issues).
9. Honoree, 7th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2014.

10. Honoree, 8th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2015.
11. Honoree, 9th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2016.
12. Fulbright Senior Research Scholar to Nepal. U.S. Department of States, 2017

EDITORIL BOARD:

1. Frontiers in Oncology
2. International Journal of Research on Public Health, Climate and Health section.

REVIEWING ACTIVITIES:

PNAS
Nature Communication
Environmental Health Perspectives
Environmental Research
Environment Science & Technology
Environment International
Environmental Health
Frontiers in Oncology
Water Research
Science of the Total Environment
EcoHealth
Air Quality, Atmosphere and Health
Chemosphere
Cancer Causes and Control
Frontiers in Oncology
Journal of Occupational and Environmental Hygiene
Journal of Exposure Science and Environmental Epidemiology
Air and Waste Management Association

TEACHING

Courses taught as the primary instructor

Fall 2007	Course relief	Recruitment package		
Spring 2008	MIEH771	Exposure Assessment	4 Students	3 credits
	MIEH789	Independent Study	1 Student	3 credits
Fall 2008	MIEH740	Env. Health Risk Assessment	5 Students	3 credits
	MIEH785	Internship Public Health	1 Student	3 credits

Spring 2009	MIEH771	Exposure Assessment	4 Students	3 credits
	MIEH785	Internship Public Health	2 Students	3 credits
	MIEH799	Masters Thesis Research	1 Students	6 credit

Fall 2009	MIEH740	Env. Health Risk Assessment	10 Students	3 credits
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Spring 2010	HONR268C	Public Health Perspectives	18 Students	3 credits
	MIEH771	Exposure Assessment	4 Students	3 credits

Summer 2010: The Concept and Practice of Risk Assessment and Molecular Epidemiology in Public Health, July 12-16, 2010, **Fudan School of Public Health, Shanghai, China.** Taught one week Risk Assessment course to 40 graduate students, researchers, and faculty members. This course was organized by Dr. Deliang Tang at the Columbia University Mailman School of Public Health.

Fall 2010	MIEH740	Env. Health Risk Assessment	2 Students	3 credits
	MIEH785	Internship Public Health	1 Student	3 credits
	MIEH786	Capstone Project MPH	1 Student	3 credits
	MIEH788	Critical Reading in EH	1 Student	1 credit
	MIEH789	Independent Study	2 Students	1 credit

Spring 2011	MIEH600	Foundations of Env. Health	13 Students	3 credits
	MIEH771	Exposure Assessment	12 Students	1 credit
	MIEH788	Critical Reading in EH	1 Student	1 credit
	MIEH789	Independent Study	1 Student	1 credit
	MIEH799	Masters Thesis Research	1 Student	1 credits

Fall 2011	ENST446/MIEH440	Env. Health Risk Assessment	15 Students	3 credits
	MIEH609	Methods in Toxicology	1 Student	1 credit
	MIEH740	Env. Health Risk Assessment	13 students	3 credit
	MIEH785	Internship Public Health	2 Students	3 credits

Spring 2012	HONR268C	Public Health Perspectives	20 Students	3 credits
	MIEH771	Exposure Assessment	5 Students	3 credits
	MIEH786	Capstone Project in Env. Health	1 Student	3 credits
	MIEH789	Independent Study	1 Student	1 credit
	MIEH799	Masters Thesis Research	2 Students	3 credits

Summer 2012	MIEH600	Foundations of Env. Health	10 Students	3 credits
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Fall 2012	EPIB899	Doctoral Dissertation Research	1 Student	6 credits
	MEES898	Independent Study	1 Student	1 credit
	MIEH309	Env. Health Research	2 Students	1 credit

	MIEH740	Env. Health Risk Assessment	7 Students	3 credits
	MIEH785	Internship Public Health	1 Student	3 credits
	MIEH788	Critical Read. in Env. Health	1 Student	1 credit
	MIEH898	Pre-Candidacy Research	1 Student	1 credit
Spring 2013	MIEH309	Env. Health Research	2 Students	3 credits
	MIEH609	Methods in Toxicology	1 Student	3 credits
	MIEH771	Exposure Assessment	8 Students	3 credits
Summer 2013	MIEH600	Foundations of Env. Health	11 Students	3 credits
Fall 2013	MIEH740	Env. Health Risk Assessment	4 students	3 credits
Spring 2014	MIEH771	Exposure Assessment	10 students	3 credits
Fall 2014	MIEH309	Env. Health Research	2 students	3 credits
	MIEH740	Env. Health Risk Assessment	4 students	3 credits
Spring 2015	MIEH309	Env. Health Research	1 student	3 credits
	MIEH771	Exposure Assessment	7 students	3 credits
Fall 2015	MIEH400	Introduction to Global Health	18 students	3 credits
	MIEH785	Internship Public Health	1 student	3 credits
Spring 2016	MIEH771	Exposure Assessment	10 students	3 credits
Fall 2016	MIEH400	Introduction to Global Health	46 students	3 credits
Spring 2017		Sabbatical		
Summer 2017	MIEH400	Introduction to Global Health	42 students	3 credits
Fall 2017	MIEH400	Introduction to Global Health	100 students	3 credits
Spring 2018	MIEH400	Introduction to Global Health	117 students	3 credits
	MIEH771	Exposure Assessment	3 students	3 credits
Summer 2018	MIEH400	Introduction to Global Health	31 students	3 credits
Fall 2018	MIEH400	Introduction to Global Health	123 students	3 credits
Spring 2019	MIEH400	Introduction to Global Health	106 students	3 credits
	MIEH771	Exposure Assessments	3 students	3 credits

Summer 2019	MIEH400	Introduction to Global Health	56 students	3 credits
Fall 2019	MIEH400	Introduction to Global Health	133 students	3 credits
Winter 2020	MIEH400	Introduction to Global Health	23 students	3 credits
Spring 2020	MIEH400	Introduction to Global Health	112 students	3 credits
	MIEH771	Exposure Assessment	5 students	3 credits
Summer 2020	MIEH400	Introduction to Global Health	45 students	3 credits
Fall 2020	MIEH400	Introduction to Global Health	138 students	3 credits
Winter 2021	MIEH400	Introduction to Global Health	31 students	3 credits
Spring 2021	MIEH400	Introduction to Global Health	120 students	3 credits
	PHSC426	Climate Change and Health	19n students	3 credits
Fall 2021	MIEH400	Introduction to Global Health	143 students	3 credits

COURSE OR CURRICULUM DEVELOPMENT

Overall One of the first two tenure track faculty members hired at the Maryland Institute for Applied Environmental Health when the decision was made to have an accredited School of Public Health at the College Park campus. As such, I have played a major role in the curriculum development for MPH and PhD program in Environmental Health

New Graduate Courses Developed

MIEH 600	Foundations of Environmental Health Role: Developed this course from scratch when the previous instructor retired.
MIEH 740	Human Health Risk Assessment Role: Developed this new course from scratch as a part of the new MPH program in Environmental Health.
MIEH 771	Exposure Assessment Role: Developed this new course from scratch as a part of the new MPH program in Environmental Health.
e-MIEH600	Online MIEH600 Role: Led the development of e-MIEH600 (online) course for the new e-MPH degree in Health Services Administration.

New Undergraduate Courses Developed

MIEH440/ENST446 Human Health Risk Assessment

Role: Created an undergraduate version of the MIEH740.

HONR268C Public Health Perspectives

Role: Developed a complete new course for the undergraduate honors student.

MIEH400 Introduction to Global Health

Role: Developed a new course in Global Health for undergraduate student. Currently this course is subscribed to its maximum capacity (120).

e-MIEH400 Introduction to Global Health

Role: Developed an online version of MIEH400 to be offered every summer.

PHSC426 Climate Change and Health

Role: Developed a new course on climate change and health and offered it for the Spring 2021 semester.

Guest Lectures

MIEH 600 Principles of Environmental Health (2 lectures per year)

MIEH 300 Introduction to Environmental Health (1 lecture per year, 2011-2012)

MIEH720 Principles of Toxicology (One guest lecture 2008-2009)

Exchange International Exchange Program with Kyung Hee University (Korea) entitled "Engineering Technology and Public Health" (Undergraduate program) (Two guest lectures in environmental health). Summer 2012 and Summer 2013.

MENTORING AND ADVISING

Undergraduate Research Advising

Amee Raval Spring 2010-Spring 2013. Major in Environment Science and Technology. Howard Hughes Medical Institute Undergraduate Research Fellowship (2011)
Policy & Research Associate, Asian Pacific Environmental Network, San Francisco.

Sadia Nmn Goheer Fall 2010-Spring 2011. Major in Analytical Chemistry

Roma Desai Fall 2011-Spring 2012. Major in Environment Science and Technology.

William N. Dade Summer 2011. UMSTAR Fellow from the North Carolina Agricultural and Technical State University.

Jin Seok Kim Spring 2012-Spring 2013. Major in General Biology, May 2013. Went on to Graduate School.

Jeongkyun Lee Spring 2013-Spring 2016. Major in Biology, May 2015.

Satish Mishra Spring 2012-Fall2012, George Washington University.

Betel Shewarega Spring 2018- Fall 2018, Major in Public Health Science.

Shifali Mathews Fall 2019 – Spring 2020. Major in Public Health Science.

Graduate Research Advising

Visiting Faculty Advising (Sabbatical Host)

Shizuka Hsieh Sabbatical Host. September 2012-May 2013. Currently Associate Professor and Chair, Department of Chemistry, Trinity Washington University, Washington Dc.

Narges Khanjani Sabbatical Host. September 2015 - February 2016. Currently Professor, Kerman Medical University, Department of Epidemiology and Biostatistics, Iran.

Subodh Adhikari Research volunteer from Nepal, Fall 2013. Currently Resident Physician East Tennessee State University.

Post-doctoral

Sorina Eftim October 2009 – May 2010. Currently at Inner City Fund (ICF) International.

Sutyajeet Sonja September 2014 – August 2016. Currently AAAS Science & Technology Policy Fellow, United States Agency for International Development (USAID).

Chengsheng Jiang April 2013- Present. Currently Research Assistant Professor, Maryland Institute for Applied Environmental Health.

Greg Raspanti May 2016 – October 2017. Currently research scientist at New Jersey Department of Environmental Protection.

Linyan Zhu July 2018-Dec 2019

Heather Randell August 2018-July 2019. Currently Assistant Professor at Pennsylvania State University.

PhD Students, Major Advisor

(PhD Program was started in the Maryland Institute for Applied Environmental Health after Spring 2012)

Bradley Kerridge Fall 2009-Spring 2013. Dissertation title: *Terrorism, Civil War, One-Sided Violence and Global Burden of Disease*.

- Pre-doctoral National Research Service Award (NRSA) Fellowship, National Institutes of Health, 1-F31 DA025377-01. 2013.
- Currently Epidemiologist at National Institutes of Health.

Crystal Romeo Spring 2011-Spring 2016. Dissertation title: *The Association of Extreme Heat and Chronic Respiratory Disease Among a Nationally Representative Sample of the United States Population*

- NSF Louis Stokes Alliance for Minority Participation (LSAMP) Fellowship (2010-2012).
- Travel Award: Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (2011),
- NSF Alliances for Graduate Education and the Professorate (AGEP) Travel Award – registration, airfare, and lodging (2011).
- Currently Senior Environmental Scientist, Climate Adaptation and Resilience Technical Lead at AECOM.

Saptashati Biswas Fall 2009 – 2014 (Co-Advisor: Dr. Josh McGrath). Dissertation Title: *Quantification of Ionophore Antimicrobials Associated With Poultry Litter and Their Dynamics in the Soils of the Mid-Atlantic USA*.

- Best Grad Student of the Year by S-11 division, Soil Science Society of America (2010)
- Second position in BioScience Day poster competition (2010); Travel Award, International ASA-CSSA-SSSA Joint Meeting (2010)
- Outstanding Graduate Student Award (PhD) by Department of Environmental Science and Technology, University of Maryland-College Park (2011)
- Summer Research Fellowship, Graduate School, University of Maryland-College Park (2011)
- 2nd Position in Poster Competition at ASA-CSSA-SSSA North East Branch Meeting, at Chesapeake Beach, MD (2011).
- Currently at Nebraska Water Center

Greg Raspanti Fall 2012 – Spring 2016. Dissertation Title: *Lung Cancer in Nepal: The Role of Traditional Tobacco Products and Household Air Pollution*.

- First Place in Health Section for original research poster “Traditional vs. Commercial Tobacco Use and Lung Cancer Risk in Nepal”– Graduate Research Interaction Day UMD April, 2013
- Elected President of Delta Omega honorary public health organization– October, 2012
- Dean’s Fellowship Award – August, 2012
- University of Maryland Center for Teaching Excellence Distinguished Teaching Assistant Award 2011-2012
- Currently at New Jersey Department of Environmental Protection.

Richard Remigio

Fall 2017 – Spring 2021.

- Recipient of NIH R36 Dissertation Award from Agency for Healthcare Research and Quality (AHRQ)
- Recipient of Travel Grant, Local Solutions: Eastern Climate Preparedness Conference. Manchester, NH. 2018 30 Apr - 2 May.
- Travel Award, Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology. Ottawa, ONT, CAN 2018 Aug 26-30.

Suraj Pant

Fall 2016 – present.

- Dean’s Fellowship 2017
- Dean’s Fellowship 2018
- Global STWEARDS fellow 2019.

Hyeonjin Song

Fall 2019-Present

Jeff Dalhoff

Sparing 2020 – Present

Kha-Ai Tran

Fall 2021 - Present

Committee Member, PhD Students

Ryan L. Sheppard

Androgen receptor polyglutamine repeat length affects receptor activity and C2C 12 cell myogenic potential. 2010.

Sankar Sambandam

Developing Exposure Assessment Methods for Indoor Air Pollutants from Household Combustion of Solid Fuels in Rural Areas of Southern India. Sri Ramchandra University, Dept. of Environmental Health Engineering, Chennai, India. 2011.

Sarah A. Evans

Nuclear Reactions – Testing a Message-Centered Extension of Enduring Predictions About Expert and Lay Person Perceptions of and Reactions to Risk. Department of Communication, University of Maryland. 2011.

- Rachel R. Goldstein Antibiotic-Resistant Bacteria in Wastewater and Potential Human Exposure Through Wastewater Reuse. University of Maryland School of Public Health. 2013
- Jarim Kim The Impact of Consideration of Future Consequences and Temporal Framing on Acceptance of the HPV Vaccine. Department of Communication, University of Maryland. May 2014.
- Kristen N. Burwell The Development of a Community Informed Cumulative Stressors and Resiliency Index (CSRI) to Examine Environmental Health Disparities and Disease Risk in South Carolina. University of Maryland School of Public Health. May 2017.
- Jared A. Fisher Associations Between Ambient Particulate Matter Exposures, Stroke, and Markers of Cardiovascular Inflammation. University of Maryland School of Public Health. May 2017.
- Chih-Hsien Lin Harmful Algae in Chesapeake Bay: A Study Focused on *Karlodinium Veneficum* Applying Time Series, Physiological, and Modeling Approaches. Marine Estuarine Environmental Sciences, University of Maryland Eastern Shore. April 2018.
- Allison Marie Ring Exploring the impacts of regional emissions sources on tropospheric ozone in the eastern United States using air quality models and data products. University of Maryland, Department of Atmospheric and Oceanic Sciences. December 2018

Major Advisor, Master of Public Health (MPH) Students (* denotes Thesis)

- Joanne Perodin Fall 2007-Spring 2009. Thesis title: *Cross sectional evaluation of potential Volatile Organic Compound exposures around Schools**. Currently employed at the Children's Environmental Health Network.
- Adam Chelikowsky Fall 2009-Spring 2011. Integration and Migration of Manufacturing Operations from Camarillo to Frederick; an EHS Perspective. Currently Environmental Health and Safety Engineer at Emergent Biosolutions.
- Michelle Fransen Fall 2010-Spring 2012. Thesis titled: *Influence of weekdays weekends, bandhas and weather conditions on particulate matter concentrations in the Kathmandu Valley Nepal**. Currently Senior Environmental & Technical Specialist at COGENCY.

Job Sterling	Fall 2010-Spring 2012. Capstone project titled: <i>Indoor/outdoor volatile organic compound concentrations in the inner city Washington DC – A comparative analysis</i> . Currently working at Habitat for Humanity.
Greg Raspanti	Fall 2010-Spring 2012. Thesis titled: <i>Environmental Impacts on Fecal Indicator Bacteria in 5 National Parks*</i> . Currently employed as a research scientist at the New Jersey Department of Environmental Protection.
Cynthia Bashore	Fall 2010 –Summer 2012. Thesis titled: <i>Maternal mercury exposure, season of conception and adverse birth outcomes in an urban immigrant community in New York City*</i> . Currently employed as Veterinary Medical Officer at the Division of Human Food Safety, Center for Veterinary Medicine, Food and Drug Administration.
Chris Caler	Fall 2011-Spring 2013. Capstone project title: <i>Containment testing of compressed gas cylinders within chemical fume hoods – are lecture bottles safe?</i> Currently employed at Indian Health Services.
Hsin Chieh Wu	Fall 2011-Spring 2013. Thesis Titled: <i>Climate Change, pollen levels and emergency department Visits for asthma in Maryland*</i> . Currently employed at the Maryland Department of Health and Mental Hygiene.
Rebecca Braun	Fall 2010-Spring 2013. Thesis title: <i>Alcohol exposure in preterm infants in neonatal isolettes*</i> . Currently employed at Booze Allen Hamilton.
Gil Gabby	Fall 2014-Spring 2016. Capstone project title: <i>An Inhalation Exposure Profile Comparison of Paint Products Used at the University of Maryland, College Park Campus</i> .
Kim Stinchcomb	Fall 2013-Spring 2016. Capstone project title: <i>Potential Public Health Impacts of Climate Change in the College Park-Riverdale Park Transit District Development Area</i> .
Chanjuan Huang	Fall 2014-Spring 2016. Capstone project title: <i>Trends in Cadmium Exposure Among the U.S General Population: NHANES (1999-2012)</i> .
Shifali Mathews	Fall 2020-Fall 2021 (BS+MPH). Capstone project title: <i>Climate Change and Health Recommendations for Frederick, Maryland: Findings from the Health, Extreme Weather Adaptation, and Resilience Subgroup</i>
Lucy Aistis	Fall 2019-Fall 2021. Capstone project title: <i>Evaluation of phenology metrics to reduce asthma hospitalization in New York: A comparison of remote-sensing satellite, aerobiology, and in-situ observations</i>

Master Students, Committee Member or Minor Advisor on Special Project

Erinna Kinney	Fall 2007-Spring 2009. Thesis titled: <i>Isolation, identification and antimicrobial susceptibility analysis of Enterococcus spp. and Salmonella spp. From conventional poultry farms transitioning to organic farming practices.</i>
Patrick Wallace	Fall 2007-Spring 2009. Project title: <i>Developing a Risk Based Remediation Strategy for Underground Storage Tanks using Geographical Information Systems.</i>
Meredith Jenkins	Fall 2008-Spring 2011. On Achieving and Maintaining OSHA Voluntary Protection Programs Star Certification.
Mitiku W. Dossa	Fall 2008-Spring 2010. Water pollution and public health hazards in Ethiopia.
Rachel Goldstein	Fall 2008-Spring 2010; Thesis titled " <i>Evaluation of antibiotic-resistant bacteria in tertiary treated wastewater, reclaimed wastewater used for spray irrigation, and resulting occupational exposures</i> ".
Kristie Trousdale	Fall 2008-Spring 2010
Mack A. Frost	Fall 2009 – Spring 2011
Jessica M. Lopez	Fall 2011-Spring 2013. Thesis title: <i>Short-term Effects of Ambient Ozone on Stroke Risk in South Carolina.</i>
Rianna T. Murray	Fall 2011-Spring 2013. An Assessment of Exposure to Pollution by Recreational Users of the Anacostia Water Watershed – Project RECREATE. 2013
Oluwasanmi O. Adenaiye	Tracking Acute Respiratory Infections in a College Residence. Maryland Institute for Applied Environmental Health, University of Maryland School of Public Health.

SERVICE

Community, State, National and International

2005	IARC Secretariat, IARC Monographs (Volume 93: Carbon black, Titanium dioxide, and Talc and Volume 95: Household use of solid fuels and high-temperature frying)
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- 2008 Dietary Exposure Assessment Tools for Prioritizing Food Safety Concerns, FDA-JIFSAN
- 2008 Advisor to the office of State Delegate James Hubbard on Bisphenol A
- 2008-2011 Member of workgroup on *Maryland Comprehensive Cancer Control Plan*. Maryland Department of Health and Mental Hygiene
- 2008-2012 Member, Expert committee on outdoor air pollution, Global Burden of Disease. The Institute for Health Metrics and Evaluation
- 2008-2012 Member, Expert committee on indoor air pollution, Global Burden of Disease. The Institute for Health Metrics and Evaluation
- 2009-2011 Committee member, Maryland Comprehensive Cancer Control Plan, Maryland Department of Health and Mental Hygiene.
- 2009 Conference Co-Chair. Emerging Contaminants (Pharmaceuticals and Personal Care Products) and Organohalogens in Wastewater and Municipal Biosolids. 238th American Chemical Society (ACS) National Meeting August 16-20, 2009 Washington, DC, USA
- 2009-2010 Member of external review panel for *Toxicological Profile for 1,3-Butadiene*. Agency for Toxic Substance and Disease Registry.
- 2011 Johns Hopkins University, NIEHS Center Pilot Project Reviewer.
- 2011 Member, Health Burden of Indoor Air Pollution on Women and Children in Developing Countries. NIH led trans-agency workshop.
- 2011 Member, Organizing Committee. Annual International Society for Exposure Science Conference (ISES), Baltimore.
- 2011-2012 Expert committee member, NIH Panel to prioritize research opportunities in Indoor Air Pollution
- 2012 Member, International Scientific Committee. 7th International Conference on the Science of Exposure Assessment. Edinburgh, Scotland.
- 2013-14 Member of workgroup on Cancer Clusters and Environmental Causes of Cancer, Department of Health and Mental Hygiene.
- 2014 Co-Author, Marcellus Shale Public Health Study. Prepared for the Marcellus Shale Safe Drilling Initiative Advisory Commission.
- 2015-2018 Aeroallergen workgroup member, Council of State and Territorial Epidemiologists.
- 2016 Panel Member, Conference on New Data Linkage, Arlington, Va.
- 2016-present Member, Scientific and Technical Working Group (STWG), Maryland Commission on Climate Change.

Faculty Appointment, Promotion, & Tenure (APT) Evaluations

- 2014 Reviewer of APT Evaluation for Research Faculty, University of California at Los Angeles.
- 2016 Reviewer of APT package, University of Wisconsin-Milwaukee.
- 2017 Reviewer of Promotion Package, National Center for Health Statistics.
- 2018 Reviewer of APT package, Indiana University.
- 2020 Reviewer of APT package, George Washington University
- 2020 Reviewer of APT package, University of Minnesota

2021 Reviewer of APT package, University of Alberta

Grant Review Panel, National and International

2013 Member, Review Panel. Centers for Disease Control and Prevention, National Center for Injury Prevention and Control (NCIPC), Special Emphasis Panel (SEP).

2010 Member of Review Panel, US Environmental Protection Agency, NCER Grant Review EPA-G2010-STAR-B1.

2015 Member, NIH Review Panel: Pediatric Research Using Integrated Sensor Monitoring Systems (PRISMS): Sensors Development Project For Asthma (U01)

2016 Member, NIH Review Panel: Environmental Influences on Child Health Outcomes (ECHO) program - Pediatric Cohorts

2016 Member, NIH Review Panel ZRG1 PSE-H (02). Member Conflict: Pulmonary, Cardiovascular and Musculoskeletal Epidemiology

2017 Member, India-Israel (University Grant Council--Israel Science Foundation) Research Grant Review Panel.

2015-2018 *Ad hoc* Member, National Institute of Occupational Safety and Health (NIOSH) Review Panel

2019-present Permanent member, National Institute of Occupational Safety and Health (NIOSH) Review Panel

Departmental Service

Search Committees

2008 Tenure Track Faculty, Department of Epidemiology and Biostatistics. Director, Maryland Institute for Applied Environmental Health

2009 Director, Maryland Institute for Applied Environmental Health

2009 Program Director, Undergraduate Public Health Program at the Shady Grove Campus

2010 Three tenure-track positions at the assistant/associate level; Maryland Institute for Applied Environmental Health.

2011 Chair, Department of Epidemiology and Biostatistics

2014 Tenure Track Faculty (2), Department of Epidemiology and Biostatistics.

2016 Assistant Professor of Global Health, University of Maryland School of Public Health

Other MIAEH Service

2007-2012 Director, Graduate Program, MIAEH

2007-2013 Chair, Graduate recruitment and admissions committee

2007-2014 Curriculum development for MIAEH MPH and PhD programs

2007-2014 Competencies development for MIAEH MPH and PhD programs

2007-2013 Biological/Chemical Safety Committee

2007-2014 Committee on Adjunct/Affiliate Faculties

2009-2011 Colloquium Committee

2009-2011 Award Committee

2011-2014 Grievance Committee

2009 Organizer, MIEH Seminar Series
2015 Member, Appointment Promotion and Tenure (APT) Committee.

School and University Service

2008-2014 Member, Graduate Public Health (GPH) Committee
2009 Member, UMD-SPH Team for the SPH accreditation site visit by CEPH.
2011 UMD-President's China Task Force Committee
2013 Member of Subcommittee on Curricula Alignment, UMD-UMB Collaborative School of Public Health, MPowering the State.
2014 Reviewer, Council on Environment (ConE) Pilot Project Awards.
2015 Member of Search Committee: Dean, School of Public Health
2015-2016 Member, Climate Implementation Summit
2015 Member, Pilot Project Application Review Committee, Maryland Population Research Center, University of Maryland.
2015 Co-Chair, Panel on Climate and Health, UMB-UMD Research Day
2016 Coordinator, Resilience and Adaptation Track, UMD Climate Forum.
2016 Member, Limited Submission Review Committee, University of Maryland College Park.
2016-present Director, EXPOSOME Small Molecule Core Facility, University of Maryland College Park.
2014-2020 Member, University of Maryland Radiation Safety Committee
2018-2018 Chair, Research Committee, University of Maryland School of Public Health.
2020-Present APT Committee, School of Public Health.
2021 Chair, EPIB APT Sub-Committee
2021 Chair, FMSC APT Sub-Committee