

Kirsten E. Wiens, PhD

Assistant Professor
Department of Epidemiology and Biostatistics
Temple University Barnett College of Public Health
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EDUCATION

Ph.D. – Immunology & Inflammation (*M.S. conferred en route*)
New York University School of Medicine, 2017

B.Sc. – Biology (First Class Honours), Minor in International Relations
McGill University, 2011

PROFESSIONAL EXPERIENCE

2022-Present **Assistant Professor**, Department of Epidemiology and Biostatistics, Temple University College of Public Health, Philadelphia, PA

2020-2022 **Postdoctoral Fellow**, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

2017-2020 **Postdoctoral Fellow/Research Scientist**, Institute for Health Metrics and Evaluation (IHME), University of Washington, Seattle, WA

2011-2017 **Graduate Research Assistant**, Department of Pathology, New York University School of Medicine, New York, NY

GRANTS

Active Funding

Analyzing cholera burden by age to inform strategies - technical support

Gates Foundation, INV-096686

Role: PI

Dates: Nov 10, 2025–Oct 31, 2027

Integrating patient- and county-level data to predict *Vibrio* infection severity

National Institute of Allergy and Infectious Diseases, R21AI202823

Role: PI

Dates: Aug 5, 2026–July 31, 2028

Completed Funding

The role of unobserved cholera: implications for prevention and control

National Institute of Allergy and Infectious Diseases, K22AI168389

Role: PI

Dates: Aug 1, 2023–July 31, 2025

Cholera burden and transmission modeling II

Gates Foundation, INV-044865

Role: Subrecipient PI (Overall PI: Andrew Azman, Johns Hopkins University)

Dates: Oct 1, 2022–Sept 30, 2025

Identifying spatial and environmental correlates of airborne microplastics and nanoplastics across Philadelphia

National Institute of Environmental Health Sciences, R21ES034438

Role: Co-Investigator (PI: Inkyu Han, Temple University)

Dates: June 15, 2023–May 31, 2025

FELLOWSHIPS & AWARDS

2026	Excellence in Teaching Award, Department of Epidemiology and Biostatistics, Temple University Barnett College of Public Health
2025	Junior Faculty Service Award, Department of Epidemiology and Biostatistics, Temple University Barnett College of Public Health
2018	TB Junior Investigator Award, Tuberculosis Research and Training Center, University of Washington
2014-2016	Howard Hughes Medical Institute (HHMI) International Student Research Fellowship
2011-2012	Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship
2011	Moyse Travelling Scholarship, McGill University
2010	Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award
2009	Science Undergraduate Research Award, McGill University

PUBLICATIONS

Peer-Reviewed Papers

[†] Corresponding author; * Joint first authors

1. Smith CP, Lessler J, Hegde ST, Bhuiyan TR, Islam T, Ahmmed F, Chowdhury F, Khan AI, LaRocque RC, Charles RC, Weil AA, Calderwood SB, Ryan ET, Harris JB, Azman AS, Qadri F, **Wiens KE**[†]. (2026). Estimating the transmission potential of symptomatic and asymptomatic cholera cases from household microbiological and clinical data. *The Journal of Infectious Diseases*. <https://doi.org/10.1093/infdis/jiag278>

2. Miller MH, Hilbert SM, Rosser EN, Sinko L, Lee EC, **Wiens KE**[†]. (2026). Understanding influences of care-seeking behaviors for diarrheal illnesses: a qualitative meta-synthesis. *BMJ Open*. 16:e109903. <https://doi.org/10.1136/bmjopen-2025-109903>
3. Pampati S, Stuart EA, Lessler J, **Wiens KE**, Waller LA, Lopman B, Guest JL, Grabowski MK, Jones J. (2025). Impact of school-based infection prevention strategies on household COVID-19 and respiratory disease outcomes: a cross-sectional study. *Annals of Epidemiology*. 112:76–83. <https://doi.org/10.1016/j.annepidem.2025.10.019>
4. **Wiens KE**[†], Miller MH, Costello DJ, Solomon AP, Hilbert SM, Shipper AG, Lee EC, Azman AS. (2025). Care seeking for diarrheal illness: a systematic review and meta-analysis. *PLOS Global Public Health*. 5:e0004483. <https://doi.org/10.1371/journal.pgph.0004483>
5. Xu H, Zou K, **Wiens KE**, Malembaka EB, Azman, AS, Lee EC. (2024). Enhanced cholera surveillance as a tool for improving vaccination campaign efficiency. *Nature Medicine*. 30(4):1104-1110. <https://doi.org/10.1038/s41591-024-02852-8>
6. Hegde ST*, Khan AI*, Perez-Saez J*, Khan II, Dent Hulse J, Islam MT, Khan ZH, Ahmed S, Bertuna T, Rashid M, Rashid R, Hossain MZ, Shirin T, **Wiens KE**, Gurley ES, Bhuiyan TR, Qadri F, Azman AS. (2024). Clinical surveillance systems obscure the true cholera infection burden in an endemic region. *Nature Medicine*. 30(3):888-895. <https://doi.org/10.1038/s41591-024-02810-4>
7. Han I, Lee C, Belchez C, Shipper AG, **Wiens KE**. (2024). Microplastics in urban ambient air: a rapid review of active sampling and analytical methods for human risk assessment. *Environments*. 11(11):256. <https://doi.org/10.3390/environments11110256>
8. **Wiens KE**, Xu H, Zou K, Mwaba J, Lessler J, Malembaka EB, Demby MN, Bwire G, Qadri F, Lee EC, Azman AS. (2023). Estimating the proportion of clinically suspected cholera cases that are true *Vibrio cholerae* infections: A systematic review and meta-analysis. *PLOS Medicine*. 2023(20):e1004286. <https://doi.org/10.1371/journal.pmed.1004286>
9. **Wiens KE***, Iyer AS*, Bhuiyan TR, Lu LL, Cizmeci D, Gorman MJ, Yuan D, Becker RL, Ryan ET, Calderwood SB, LaRocque RC, Chowdhury F, Khan AI, Levine MM, Chen WH, Charles RC, Azman AS, Qadri F, Alter G, Harris JB. (2023). Predicting *Vibrio cholerae* infection and symptomatic disease: a systems serology study. *The Lancet Microbe*. 4(4):e228-e235. [https://doi.org/10.1016/S2666-5247\(22\)00391-3](https://doi.org/10.1016/S2666-5247(22)00391-3)
10. Aiemjoy K, Rumunu J, Hassen JJ, **Wiens KE**, Garrett D, Kamenskaya P, Harris JB, Azman AS, Teunis P, Seidman J, Wamala JF, Andrews JR, Charles RC. (2022). Seroincidence of enteric fever in Juba, South Sudan. *Emerging Infectious Diseases*. 28(11):2316-2320. <https://doi.org/10.3201/eid2811.220239>
11. Local Burden of Disease Triple Burden Collaborators. The overlapping burden of the three leading causes of disability and death in sub-Saharan African children. (2022). *Nature Communications*. 13(7457). <https://doi.org/10.1038/s41467-022-34240-6>
12. **Wiens KE**, Jauregui B, Arnold BF, Banke K, Wade D, Hayford K, Costero-Saint Denis A, Hall RH, Salje H, Rodriguez-Barraquer I, Azman AS, Vernet G, Leung DT, on behalf of the Collaboration on Integrated Biomarkers Surveillance. (2022). Building an integrated serosurveillance platform to inform public health interventions: Insights from an experts'

meeting on serum biomarkers. *PLOS Neglected Tropical Diseases*. 16(10):e0010657. <https://doi.org/10.1371/journal.pntd.0010657>

13. Local Burden of Disease Household Air Pollution Collaborators. (2022). Mapping development and health effects of cooking with solid fuels in low-income and middle-income countries, 2000–18: a geospatial modelling study. *The Lancet Global Health*. 10(10):1395–1411. [https://doi.org/10.1016/S2214-109X\(22\)00332-1](https://doi.org/10.1016/S2214-109X(22)00332-1)
14. **Wiens KE**, Smith CP, Badillo-Goicoechea E, Grantz KH, Grabowski MK, Azman AS, Stuart EA, Lessler J. (2022). In-person schooling and associated COVID-19 risk in the United States over Spring Semester 2021. *Science Advances*. 8(16):eabm9128. <https://doi.org/10.1126/sciadv.abm9128>
15. Allorant A, Biswas S, Ahmed S, **Wiens KE**, LeGrand KE, Janko MM, Henry NJ, Dangel WJ, Watson A, Blacker BF, Kyu HH, Ross JM, Rahman MS, Hay SI, Reiner RC. (2022). Finding gaps in routine TB surveillance activities in Bangladesh. *The International Journal of Tuberculosis and Lung Disease*. 26(4):356–362. <https://doi.org/10.5588/ijtld.21.0624>
16. COVID-19 Cumulative Infection Collaborators. (2022). Estimating global, regional, and national daily and cumulative infections with SARS-CoV-2 through Nov 14, 2021: a statistical analysis. *The Lancet*. [https://doi.org/10.1016/S0140-6736\(22\)00484-6](https://doi.org/10.1016/S0140-6736(22)00484-6)
17. **Wiens KE**, Mawien PN, Rumunu J, Slater D, Jones FK, Moheed S, Caflisch A, Bior BK, Amanaya Iboyi J, Lako RL, Guyo AG, Olu OO, Maleghemi S, Baguma A, Hassen JJ, Baya SK, Deng L, Lessler J, Demby MN, Sanchez V, Mills R, Fraser C, Charles RC, Harris JB, Azman AS, Wamala JF. (2021). Seroprevalence of severe acute respiratory syndrome coronavirus 2 IgG in Juba, South Sudan, 2020. *Emerging Infectious Diseases*. 27(6):1598–1606. <https://doi.org/10.3201/eid2706.210568>
18. Local Burden of Disease Exclusive Breastfeeding Collaborators. (2021). Mapping inequalities in exclusive breastfeeding in low- and middle-income countries, 2000–2018. *Nature Human Behaviour*. 5(8):1027–1045. <https://doi.org/10.1038/s41562-021-01108-6>
19. Local Burden of Disease Vaccine Coverage Collaborators. (2021). Mapping routine measles vaccination in low-and middle-income countries. *Nature*. 589(7842):415–419. <https://doi.org/10.1038/s41586-020-03043-4>
20. **Wiens KE**, Schaeffer LS, Sow SO, Ndoye B, Cain CJ, Baumann MM, Johnson KB, Lindstedt PA, Blacker BF, Zulfiqar BA, Cormier NM, Daoud F, Earl L, Farag T, Khalil IA, Kinyoki DA, Larson HJ, LeGrand KE, Levine AJ, Malta DC, Månsson JC, Mayala BK, Mokdad AH, Ogbuanu IU, Sankoh O, Sartorius B, Topor-Madry R, Troeger CE, Welgan CA, Werdecker A, Hay SI, Reiner RC. (2020). Oral rehydration therapies in Senegal, Mali, and Sierra Leone: a spatial analysis of changes over time and implications for policy. *BMC Medicine*. 18:405. <https://doi.org/10.1186/s12916-020-01857-7>
21. IHME COVID-19 Forecasting Team. (2020). Modeling COVID-19 Scenarios for the United States. *Nature Medicine*. 27(1):944–105. <https://doi.org/10.1038/s41591-020-1132-9>
22. GBD 2019 Risk Factors Collaborators. (2020). Global burden of 87 risk factors in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease

- Study 2019. *The Lancet*. 396(10258):1223-1249.
[https://doi.org/10.1016/S0140-6736\(20\)30752-2](https://doi.org/10.1016/S0140-6736(20)30752-2)
23. GBD 2019 Diseases and Injuries Collaborators. (2020). Global burden of 369 diseases and injuries in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 396(10258):1204-1222.
[https://doi.org/10.1016/S0140-6736\(20\)30925-9](https://doi.org/10.1016/S0140-6736(20)30925-9)
 24. GBD 2019 Demographics Collaborators. (2020). Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950–2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 396(10258):1160-1203. [https://doi.org/10.1016/S0140-6736\(20\)30977-6](https://doi.org/10.1016/S0140-6736(20)30977-6)
 25. Local Burden of Disease WaSH Collaborators. (2020). Mapping geographical inequalities in access to drinking water and sanitation facilities in low-income and middle-income countries, 2000–17. *The Lancet Global Health*. 8(9):1162-1185.
[https://doi.org/10.1016/S2214-109X\(20\)30278-3](https://doi.org/10.1016/S2214-109X(20)30278-3).
 26. **Wiens KE**, Lindstedt PA, Blacker BF, Johnson KB, Baumann MM, Schaeffer LE, et al. (2020). Mapping geographic inequalities in oral rehydration therapy coverage in low- and middle-income countries, 2000-17. *The Lancet Global Health*. 8(8):1038-1060.
[https://doi.org/10.1016/S2214-109X\(20\)30230-8](https://doi.org/10.1016/S2214-109X(20)30230-8)
 27. Reiner RC, **Wiens KE**, Deshpande A, Baumann MM, Lindstedt PA, Blacker BF, Troeger CE, Earl L, Munro SB, et al. (2020). Mapping geographic inequalities in diarrhoea morbidity and mortality in low- and middle-income countries, 2000-17: analysis for the Global Burden of Disease Study 2017. *The Lancet*. 395(10239):1779-1801.
[https://doi.org/10.1016/S0140-6736\(20\)30114-8](https://doi.org/10.1016/S0140-6736(20)30114-8)
 28. LBD Double Burden of Malnutrition Collaborators. (2020). Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. *Nature Medicine*. 26(5):750-759. <https://doi.org/10.1038/s41591-020-0807-6>
 29. GBD 2017 Diarrhoeal Disease Collaborators. (2020). Quantifying risks and interventions that have affected the burden of diarrhoea among children younger than 5 years: an analysis of the Global Burden of Disease Study 2017. *The Lancet Infectious Diseases*. 20(1):37-59.
[https://doi.org/10.1016/S1473-3099\(19\)30401-3](https://doi.org/10.1016/S1473-3099(19)30401-3)
 30. GBD 2017 Lower Respiratory Infections Collaborators. (2020). Quantifying risks and interventions that have affected the burden of lower respiratory infections among children younger than 5 years: an analysis for the Global Burden of Disease Study 2017. *The Lancet Infectious Diseases*. 20(1):60-79. [https://doi.org/10.1016/S1473-3099\(19\)30410-4](https://doi.org/10.1016/S1473-3099(19)30410-4)
 31. Hulland EN, **Wiens KE**, Shirude S, Morgan J, Bertozzi-Villa A, Farag TH, Fullman N, Kraemer MUG, Miller-Petrie MK, Gupta V, Reiner RC, Rabinowitz P, Wasserheit JN, Bell BP, Hay SI, Weiss DJ, Pigott DM. (2019). Travel time to health facilities in areas of outbreak potential: maps for guiding local preparedness and response. *BMC Medicine*. 17(1):232.
<https://doi.org/10.1186/s12916-019-1459-6>
 32. Reiner RC, Welgan CA, Casey DC, Troeger CE, Baumann MM, Nguyen QP, Swartz SJ, Blacker BF, Deshpande A, Mosser JF, Osgood-Zimmerman AE, Earl L, Marczak LB, Munro SB, Miller-Petrie MK, Rodgers Kemp G, Frostad J, **Wiens KE**, Lindstedt PA, Pigott DM,

- Dwyer-Lindgren L, Ross JM, Burstein R, Graetz N, Rao PC, Khalil IA, Davis Weaver N, Ray SE, Davis I, Farag T, Brady OJ, Kraemer MUG, Smith DL, Bhatt S, Weiss DJ, Gething PW, Kassebaum NJ, Mokdad AH, Murray CJL, Hay SI. (2019). Identifying residual hotspots and mapping lower respiratory infection morbidity and mortality in African children from 2000 to 2017. *Nature Microbiology*. 4(12):2310–2318. <https://doi.org/10.1038/s41564-019-0562-y>
33. Bhattacharjee NV, Schaeffer LE, Marczak LB, Ross JM, Swartz SJ, Albright J, Gardner WM, Shields C, Sligar A, Schipp MF, Pickering BV, Henry NJ, Johnson KB, Louie C, Cork MA, Steuben KM, Lazzar-Atwood A, Lu D, Kinyoki DK, Osgood-Zimmerman A, Earl L, Mosser JF, Deshpande A, Burstein R, Woyczynski LP, Wilson KF, VanderHeide JD, **Wiens KE**, Reiner RC, Piwoz EG, Rawat R, Sartorius B, Davis Weaver N, Nixon MR, Smith DL, Kassebaum NJ, Gakidou E, Lim SS, Mokdad AH, Murray CJL, Dwyer-Lindgren L, Hay SI. (2019). Mapping exclusive breastfeeding in Africa between 2000 and 2017. *Nature Medicine*. 25(8):1205-1212. <https://doi.org/10.1038/s41591-019-0525-0>
 34. Dwyer-Lindgren L, Cork MA, Sligar A, Steuben KM, Wilson KF, Provost NR, Mayala BK, VanderHeide JD, Collison ML, Hall JB, Biehl MH, Carter A, Frank T, Douwes-Schultz D, Burstein R, Casey DC, Deshpande A, Earl L, El Bcheraoui C, Farag TH, Henry NJ, Kinyoki D, Marczak LB, Nixon MR, Osgood-Zimmerman A, Pigott D, Reiner RC, Ross JM, Schaeffer LE, Smith DL, Davis Weaver N, **Wiens KE**, Eaton JW, Justman JE, Opio A, Sartorius B, Tanser F, Wabiri N, Piot P, Murray CJL, Hay SI. (2019). Mapping HIV prevalence in sub-Saharan Africa between 2000 and 2016. *Nature*. 570(7760):189-193. <https://doi.org/10.1038/s41586-019-1200-9>
 35. GBD Tuberculosis Collaborators. (2018). Global, regional, and national burden of tuberculosis, 1990-2016: results from the Global Burden of Diseases, Injuries, and Risk Factors 2016 Study. *The Lancet Infectious Diseases*. 18(12):1329-1349. [https://doi.org/10.1016/S1473-3099\(18\)30625-X](https://doi.org/10.1016/S1473-3099(18)30625-X)
 36. **Wiens KE**, Woyczynski LP, Ledesma JR, Ross JM, Zenteno-Cuevas R, Goodridge A, Ullah I, Mathema B, Djoba Siawaya JF, Biehl MH, Ray SE, Bhattacharjee NV, Henry NJ, Reiner RC, Kyu HH, Murray CJL, Hay SI. (2018). Global variation in bacterial strains that cause tuberculosis disease: a systematic review and meta-analysis. *BMC Medicine*. 16(1):196. <https://doi.org/10.1186/s12916-018-1180-x>
 37. Ross JM, Henry NJ, Dwyer-Lindgren LA, Paula de Lobo A, Marinho de Souza F, Biehl MH, Ray SE, Reiner RC, Stubbs RW, **Wiens KE**, Earl L, Kutz MJ, Bhattacharjee NV, Kyu HH, Naghavi M, Hay SI. (2018). Progress toward eliminating TB and HIV deaths in Brazil, 2001–2015: a spatial assessment. *BMC Medicine*. 16(1):144. <https://doi.org/10.1186/s12916-018-1131-6>
 38. Osgood-Zimmerman A, Millea AI, Stubbs RW, Shields C, Pickering BV, Earl L, Graetz N, Kinyoki DK, Ray SE, Bhatt S, Browne AJ, Burstein R, Cameron E, Casey DC, Deshpande A, Fullman N, Gething PW, Gibson HS, Henry NJ, Herrero M, Krause LK, Letourneau ID, Levine AJ, Liu PY, Longbottom J, Mayala BK, Mosser JF, Noor AM, Pigott DM, Piwoz EG, Rao P, Rawat R, Reiner RC, Smith DL, Weiss DJ, **Wiens KE**, Mokdad AH, Lim SS, Murray CJL, Kassebaum NJ, Hay SI. (2018). Mapping child growth failure in Africa between 2000 and 2015. *Nature*. 555:41-47. <https://doi.org/10.1038/nature25760>

39. **Wiens KE**, Ernst JD. (2016). Type I interferon is pathogenic during chronic *Mycobacterium africanum* infection. *The Journal of Infectious Diseases*. 214(12):1893-1896.
<https://doi.org/10.1093/infdis/jiw519>
40. **Wiens KE**, Ernst JD. (2016). The mechanism for type I interferon induction by *Mycobacterium tuberculosis* is bacterial strain-dependent. *PLOS Pathogens*. 12(8):e1005809. <https://doi.org/10.1371/journal.ppat.1005809>
41. Gundra UM, Girgis NM, Rucker D, Jenkins S, Ward LN, Kurtz ZD, **Wiens KE**, Basu-Roy U, Mansukhani A, Allen JE, Loke P. (2014). Alternatively activated macrophages derived from monocytes and tissue macrophages are phenotypically and functionally distinct. *Blood*. (20):e110-22. <https://doi.org/10.1182/blood-2013-08-520619>
42. Leung JM, Davenport M, Wolff MJ, **Wiens KE**, Poles MA, Cho I, Ullman T, Mayer L, Loke P. (2014). Active inflammation in ulcerative colitis is associated with reduced IL-22 producing CD4+ cells and alterations in the mucosal microbiota. *Mucosal Immunology*. 7(1):124-33.
<https://doi.org/10.1038/mi.2013.31>
43. **Wiens KE**[†], Crispo E, Chapman LJ. (2014). Phenotypic plasticity is maintained despite geographical isolation in an African cichlid fish, *Pseudocrenilabrus multicolor*. *Integrative Zoology*. 9(1):85-96. <https://doi.org/10.1111/1749-4877.12029>
44. **Wiens KE**, Swaminathan H, Copin R, Lun DS, Ernst JD. (2013). Equivalent T cell epitope promiscuity in ecologically diverse human pathogens. *PLOS One*. 8(8):e73124.
<https://doi.org/10.1371/journal.pone.0073124>
45. Broadhurst MJ, Ardeshir A, Kanwar B, Mirpuri J, Gundra UM, Leung JM, **Wiens KE**, Vujkovic-Cvijin, Kim CC, Yarovinsky F, Nicholas WL, McCune JM, Loke P. (2012). Therapeutic helminth infection of macaques with idiopathic chronic diarrhea alters the inflammatory signature and mucosal microbiota of the colon. *PLOS Pathogens*. 8(11):e1003000. <https://doi.org/10.1371/journal.ppat.1003000>

Other Publications

46. Global Task Force on Cholera Control Epidemiology and Laboratory Working Groups. (2025). Beyond acute watery diarrhoea: new cholera surveillance guidance. *The Lancet Infectious Diseases*. [https://doi.org/10.1016/S1473-3099\(25\)00143-4](https://doi.org/10.1016/S1473-3099(25)00143-4)

POLICY REPORTS*

*Contributed as an expert member of technical working groups; acknowledged contributor.

1. Global Task Force on Cholera Control. *Cholera Reporting to Regional and Global Levels: Interim Recommendations*. GTFCC; 2025.
<https://www.gtfcc.org/wp-content/uploads/2025/05/gtfcc-global-and-regional-cholera-reporting-2025.pdf>
2. Global Task Force on Cholera Control. *Public Health Surveillance for Cholera: Guidance Document*. GTFCC; 2024.
<https://www.gtfcc.org/wp-content/uploads/2024/04/public-health-surveillance-for-cholera-guidance-document-2024.pdf>

3. Global Task Force on Cholera Control. *Assessment of Cholera Surveillance: Interim Guidance Document*. GTFCC; 2024.
<https://www.gtfcc.org/wp-content/uploads/2024/12/gtfcc-assessment-of-cholera-surveillance-en.pdf>
4. Global Task Force on Cholera Control. *Identification of Priority Areas for Multisectoral Interventions (PAMIs) for Cholera Elimination: Guidance Document*. GTFCC; 2023.
<https://www.gtfcc.org/wp-content/uploads/2025/05/2023-gtfcc-pami-cholera-elimination-guidance-en.pdf>

PRESENTATIONS

1. **Wiens KE.** (2025). Characterizing *Vibrio* infection outcomes: spatial, temporal, and demographic risk factors. Foodborne Diseases Active Surveillance Network (FoodNet) Steering Committee Meeting; virtual invited proposal presentation.
2. **Wiens KE.** (2025). Beyond reported cases: using data from serosurveys and systematic reviews to improve disease burden estimates. Department of Biostatistics and Health Data Science Seminar Series. Lehigh University; virtual invited seminar.
3. Smith CP, Lessler J, Hegde ST, Bhuiyan TR, Islam T, Ahmmed F, Chowdhury F, Khan AI, Ryan ET, Harris JB, Azman AS, Qadri F, **Wiens KE.** (2024). Estimating the transmission potential of symptomatic and asymptomatic cholera cases in Bangladesh from household data. Infectious Disease Modeling Conference 2024; Bangkok, Thailand.
4. **Wiens KE.** (2023). Entender las enfermedades infecciosas mediante los análisis espaciales y serológicos. II Mes de la Ciencia, el Arte, y a Cultura - III Congreso Científico Internacionales UNSAAC 2023; virtual invited seminar.
5. **Wiens KE.** (2023). A systems serology study of correlates of protection against cholera. Global Task Force on Cholera Control (GTFCC) Oral Cholera Vaccine Working Group Informal Cholera Vaccine Research Day; virtual invited seminar.
6. **Wiens KE,** Han I, Jaschek G. (2023). Conocimiento de las enfermedades infecciosas mediante análisis espaciales y serológicos. Gerencia Regional de Salud de Cusco (Geresa Cusco); Cusco, Peru.
7. Jaschek G, Han I, **Wiens KE.** (2023). From ideas to impact: building research and training initiatives with government, academic, and community partners in Cusco, Peru. Department of Epidemiology and Biostatistics Seminar Series. Temple University College of Public Health; Philadelphia, Pennsylvania.
8. **Wiens KE.** (2023). Understanding infectious diseases through spatial and serological analyses. Center for Microbiology and Immunology Seminar Series. Temple University School of Medicine; Philadelphia, Pennsylvania.
9. **Wiens KE,** Xu H, Zou K, Mwaba J, Lessler J, Malembaka EB, Demby MN, Qadri F, Lee EC, Azman AS. (2022). Towards estimating true cholera burden: a systematic review and meta-analysis of *Vibrio cholerae* positivity. 16th Asian Conference on Diarrhoeal Diseases and Nutrition; Kolkata, India.

10. **Wiens KE.** (2021). Understanding infectious diseases through spatial and serological analyses. Translational Global Infectious Disease Research (TGIR) Team Meeting. University of Vermont; virtual invited seminar.
11. **Wiens KE,** Harris JB, Azman AS. (2021). SARS CoV-2 seroprevalence in Juba, South Sudan based on IgG measured in dried blood spots. World Health Organization Solidarity II Sero-epidemiology Collaborators Meeting.
12. **Wiens KE,** Schaeffer LS, Blacker BF, Hay SI, Reiner RC. (2020). Oral rehydration therapies in Senegal, Mali, and Sierra Leone: a spatial analysis of changes over time and implications for policy. American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting.
13. **Wiens KE,** Lindstedt PA, Baumann MM, Blacker BF, Hay SI, Reiner RC. (2019). Geographic variation in diarrhoea mortality and treatment in low- and middle-income countries, 2000-2017. Vaccines for Enteric Diseases (VED); Lausanne, Switzerland.
14. **Wiens KE,** Lindstedt PA, Blacker BF, Hay SI, Reiner RC. (2019). Geographic variation in oral rehydration therapy coverage in low- and middle-income countries. American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting; National Harbor, Maryland.
15. **Wiens KE,** Casey DC, Blacker BF, Hay SI, Reiner RC. (2018). Mapping lower respiratory infections in space and time across Africa, 2000-2016. American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting; New Orleans, Louisiana.
16. **Wiens KE,** Woyczkowski LP, Ledesma JR, Ross JM, Zenteno-Cuevas R, Goodridge A, Ullah I, Mathema B, Djoba Siawaya JF, Biehl MH, Ray SE, Bhattacharjee NV, Henry NJ, Reiner RC, Kyu HH, Murray CJL, Hay SI. (2018). Geographic variation in mycobacterial genotypes and tuberculosis disease. Institute for Disease Modeling Symposium; Seattle, Washington.
17. **Wiens KE,** Woyczkowski LP, Ledesma JR, Ross JM, Zenteno-Cuevas R, Goodridge A, Ullah I, Mathema B, Djoba Siawaya JF, Biehl MH, Ray SE, Bhattacharjee NV, Henry NJ, Reiner RC, Kyu HH, Murray CJL, Hay SI. (2018). Geographic variation in mycobacterial genotypes and implications for tuberculosis epidemiology. Pacific TB Symposium; Seattle, Washington.

TEACHING EXPERIENCE

Courses Taught

Courses at Temple University Barnett College of Public Health unless otherwise noted

Instructor

- Spatial Analysis in Public Health (EPBI 5003), Spring 2026
- Surveillance, Epidemics and Outbreaks (EPBI 5205), Spring 2025, Fall 2025
- Research Experience in Health Professions (HRPR 5999), Spring 2024
- Globalization and Burden of Disease (recorded lecture), SUITABLE Program, 2023-present

Guest Lecturer

- Applied Concepts and Methods in Health Research (EPBI 8403), Spring 2023, Fall 2025

- Concepts and Methods in Infectious Disease Epidemiology (PH.340.609), Johns Hopkins Bloomberg School of Public Health, Spring 2022

Students Mentored

PhD Students Supervised (Primary Advisor)

- Ibrahim Hassanin, PhD Student in Epidemiology (2026-present)
- Cecirahim Sesay, PhD Student in Epidemiology (2023-2024) - advised during enrollment

PhD Dissertation Committees (Member)

- Daniel Anderson Petro, PhD Student in Biology (2026-present)
- Lester (Chao-Yi) Tsai, PhD Student in Biology (2026-present)

MPH Students Supervised (Fieldwork Preceptor)

- Chenzhen Zhong, MPH in Applied Biostatistics (2026-2027)

Undergraduate Research Interns Supervised

- Sirmeiseang Keosann, Public Health (Spring 2026)
- Skye Hilbert, Public Health (Spring 2024)
- Marissa Miller, Public Health (Summer 2023)
- Daniel Costello, Public Health (Spring 2023)
- Ashlynn Solomon, Public Health (Spring 2023)

Teaching Professional Development

- Faculty Conference on Teaching Excellence, Center for the Advancement of Teaching (CAT), Temple University, January 2023, 2024, 2025, 2026
- Safe Zone Certification, Office of Institutional Diversity, Equity, Advocacy, and Leadership (IDEAL), Temple University, November 2025
- Digital Accessibility in Instruction, CAT, Temple University, November 2025
- Online Teaching Institute, CAT, Temple University, December 2023

INTERNATIONAL SERVICE

Technical Advisory Roles

2023-Present **Technical Committee Member**, Epidemiology Working Group, Global Task Force on Cholera Control (GTFCC)

2024-Present **Rapporteur**, Priority Areas for Multi-sectoral Interventions, GTFCC

SERVICE TO PROFESSION

Grant Review Panels

- National Institutes of Health (NIH) Population-based Research in Infectious Disease (PRID) study section, April 1-2, 2025
- National Institutes of Health (NIH) Etiology, Diagnostic, Intervention and Treatment of Infectious Diseases (EDIT) study section, November 2-3, 2023

Editorial Roles

2026-Present **Academic Editor**, *PLOS Neglected Tropical Diseases*

Manuscript Peer Review

Ad hoc reviewer for: American Journal of Tropical Medicine and Hygiene; BMJ Open; BMJ Public Health; Cell Host & Microbe; CommonHealth; Eurosurveillance; Gates Open Research; GeoHealth; The Journal of Infectious Diseases; The Lancet; The Lancet Global Health; The Lancet Infectious Diseases; Nature Communications; PLOS Medicine; PLOS Neglected Tropical Diseases; PLOS ONE; Rapid Reviews: COVID-19; Science Advances; Scientific Data; Trends in Microbiology; Tropical Medicine and Health; Wellcome Open Research; World Development.

Professional Memberships

American Society for Tropical Medicine and Hygiene (ASTMH)
American Public Health Association (APHA)
American Society for Microbiology (ASM)

UNIVERSITY SERVICE

College Committees

- Member, Public Health Beyond Borders (PHBB) Advisory Board, 2026-27
- Member At-Large, Collegial Assembly Steering Committee, 2024-25, 2025-26
- Member, National Public Health Week Committee, 2022-23, 2023-24

Department Committees

- Chair, Epidemiology PhD Admissions Committee, 2025-26, 2026-27
- Chair, Epidemiology and Biostatistics DEIB Committee, 2023-24, 2024-25, 2025-26
- Member, Epidemiology and Biostatistics Seminar Series, 2023-24, 2025-26, 2026-27
- Member, Epidemiology PhD Admissions Committee, 2022-23
- Member, Epidemiology PhD Prelim Exam Committee, 2022-23

MEDIA & PUBLIC SCHOLARSHIP

Media Coverage

- Felton K. (2026). "5 things you should know about meningitis." *The Washington Post*. <https://www.washingtonpost.com/wellness/2026/03/25/bacterial-meningitis-facts/>
- D'Onofrio M. (2024). "Shigella cases spiking in Philadelphia." *Axios*. <https://www.axios.com/local/philadelphia/2024/01/08/shigella-cases-spiking-philadelphia-homelessness-opioid>

Public Scholarship

- Wiens KE. (2020). "Diabetes and TB—A Complicating Combo". *Think Global Health*. Council on Foreign Relations. <https://www.thinkglobalhealth.org/article/diabetes-and-tb-complicating-combo>