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Assistant Professor, Department of Health Metrics Sciences
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EDUCATION AND TRAINING

2016-2019	Seattle Children's Hospital / University of Washington Fellowship, Pediatric Infectious Diseases	Seattle, WA
2013-2016	Seattle Children's Hospital / University of Washington Residency, Pediatrics	Seattle, WA
2008-2013	Johns Hopkins University School of Medicine MD	Baltimore, MD
2011-2012	Johns Hopkins Bloomberg School of Public Health MPH, concentration in Epidemiology and Biostatistics	Baltimore, MD
2002-2006	Middlebury College BA, Biochemistry, <i>summa cum laude</i>	Middlebury, VT

FACULTY POSITIONS

2020-Present	Department of Global Health, University of Washington Adjunct Assistant Professor, Global Health	Seattle, WA
2019-Present	Department of Health Metrics Sciences, University of Washington Assistant Professor, Health Metrics Sciences	Seattle, WA
2019-Present	Department of Pediatrics, University of Washington Adjunct Assistant Professor, Pediatric Infectious Diseases	Seattle, WA

HOSPITAL POSITIONS

2019 - Present	Seattle Children's Hospital Attending Physician, Pediatric Infectious Diseases	Seattle, WA
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BOARD CERTIFICATION

2016 - Present	Certified, American Board of Pediatrics, General Pediatrics
2019 - Present	Certified, American Board of Pediatrics, Pediatric Infectious Diseases

LICENSURE

2020 - 2022 State of Washington Medical License Number: MD60657190

PROFESSIONAL AND SOCIETY MEMBERSHIPS

2013 - Present American Academy of Pediatrics

2016 - Present Pediatric Infectious Disease Society

2016 - Present Infectious Disease Society of America

2022 - Present American Society of Tropical Medicine and Hygiene

RESEARCH EXPERIENCE

2024-Present **Team lead, anemia and hemoglobinopathies.** Institute for Health Metrics and Evaluation, University of Washington. Responsible for estimation of the burden of anemia and hemoglobinopathies for the Global Burden of Disease Study and coordination of related work within IHME.

2020-Present **Team lead, neglected tropical diseases.** Institute for Health Metrics and Evaluation, University of Washington. Responsible for estimation of the burden of malaria and neglected tropical diseases for the Global Burden of Disease Study and coordination of related work within IHME.

2018-Present **Team lead, vaccine coverage and vaccine-preventable diseases.** Institute for Health Metrics and Evaluation, University of Washington. Responsible for estimation of vaccine coverage and vaccine-preventable disease burden for the Global Burden of Disease Study, geospatial modeling of vaccine coverage, and coordination of related work within IHME.

2018-2019 **Estimating vaccine coverage and vaccine-preventable disease burden for the Global Burden of Disease Study.** Stephen Lim, PhD (Institute for Health Metrics and Evaluation and Dept. of Health Metrics Sciences, University of Washington), faculty mentor.

2017-2019 **High-resolution geospatial mapping of global vaccine coverage.** Simon Hay, BSc, DPhil, DSc and Stephen Lim, PhD (Institute for Health Metrics and Evaluation and Dept. of Health Metrics Sciences, University of Washington), faculty mentors.

2016 **Neonatal care practices and neonatal mortality trends in Kisii, Kenya, following devolution and the implementation of free maternity care.** Maneesh Batra, MD, MPH. (Division of Neonatology, University of Washington), and Ruth Nduati, MBChB, MMed, MPH (Dept. of Pediatrics, University of Nairobi), faculty mentors.

2011-2013 **Intra-household transmission dynamics of *S. pneumoniae*.** Katherine O'Brien, MD, MPH (Division of Pediatric Infectious Diseases, JHUSOM; Dept. of International Health, JHSPH) and Lindsay Grant, PhD, MPH (Dept. of International Health, JHSPH), faculty mentors.

- 2011-2013 **Systematic reviews of meningitis disease burden and management.** Hope Johnson, PhD, MPH (Dept. of International Health, JHSPH; International Vaccine Access Center), faculty mentor.
- 2011-2013 **Lopinavir/ritonavir as a first-line treatment for pediatric HIV in Panama: risk factors for virologic failure and resistance of LPV/r to treatment interruptions.** Kathleen Page, MD (Division of Infectious Diseases, JHUSOM), faculty mentor.
- 2009 **Design & implementation of a networked pediatric HIV database** for the pediatric infectious disease department of the Hospital del Niño, Panama City, Panama. Kathleen Page, MD (Division of Infectious Diseases, JHUSOM), faculty mentor.
- 2005-2006 **Cloning, Expression, and Partial Purification of Glutamine-PRPP Amidotransferase from *Escherichia Coli* and Preliminary Analysis of Phosphoribosylamine, its Unstable Metabolic Product.** Roger Sandwick, PhD (Dept. of Chemistry and Biochemistry, Middlebury College), faculty mentor (senior thesis)

PUBLICATIONS / PRESENTATIONS

For updated publication lists, please see [ORCID](#), [NCBI](#), or [Google Scholar](#).

Manuscripts in peer-reviewed journals

Published & In Press:

1. Nepomuceno de Andrade G, Bosch-Nicolau P, Nascimento BR, Martins-Melo FR, Perel P, Geissbühler Y, Demacq C, Quijano M, **Mosser JF**, Cousin E, Machado IE, Rodrigues MLAC, Ribeiro ALP, Molina I. **Prevalence of Chagas disease among Latin American immigrants in non-endemic countries: an updated systematic review and meta-analysis.** *Lancet Reg Health Eur.* 2024 Sep 6;46:101040. eCollection 2024 Nov. PMID: [39290806](#). DOI: [10.1016/j.lanepe.2024.101040](#).
2. Kawakatsu Y, **Mosser JF**, Adolph C, Baffoe P, Cheshi F, Aiga H, Watkins DA, Sherr KH. **High-resolution mapping of essential maternal and child health service coverage in Nigeria: a machine learning approach.** *BMJ Open.* 2024 Jun 10;14(6):e080135. PMID: [38858137](#). DOI: [10.1136/bmjopen-2023-080135](#).
3. Sbarra, AN, Cutts FT, Fu H, Poudyal I, Rhoda DA, **Mosser JF**[†], Jit M[†]. **Evaluating Scope and Bias of Population-Level Measles Serosurveys: A Systematized Review and Bias Assessment.** *Vaccines.* 2024 12(6):585. PMID: [38932314](#). DOI: [10.3390/vaccines12060585](#).
4. Klepac P, Hsieh JL, Ducker CL, Assoum M, Booth M, Byrne I, Dodson S, Martin DL, Turner CMR, van Daalen KR, Abela B, Akamboe J, Alves F, Brooker SJ, Cicero-Reynolds K, Cole J, Desjardins A, Drakely C, Ediriweera DS, Ferguson NM, Gabrielli AF, Gahir J, Jain S, John MR, Juma E, Kanayson P, Deribe K, King JD, Kipingu AM, Kiware S, Kolaczinski J, Kulei WJ, Laizer TL, Lal V, Lowe R, Maige JS, Mayer S, McIver L, **Mosser JF**, Nicholls RS, Nunes-Alves C, Panjwani J, Parameswaran N, Polson K, Radoykova H, Ramani A, Reimer LJ, Reynolds Z, Ribeiro I, Robb A, Sanikullah KH, Smith DRM, Shirima GG, Shott JP, Tidman R, Tribe L, Turner J, Nery SV, Velayudhan R, Warusavithana S, Wheeler H, Yajima A, Abdilleh AR, Hounkpatin B, Wangmo D, Whitty CJM, Campbell-Lendrum D, Hollingsworth TD, Solomon AW,

- Socé Fall I. Climate change, malaria and neglected tropical diseases: a scoping review. *Trans R Soc Trop Med Hyg*. 2024 May 10;trae026. PMID: [38724044](#). DOI: [10.1093/trstmh/trae026](#).
5. Bemanian A, **Mosser JF**. Investigating the spatial accessibility and coverage of the pediatric COVID-19 vaccine: an ecologic study of regional health data. *Vaccines*. 2024 12(5):545. PMID: [38793796](#). DOI: [10.3390/vaccines12050545](#).
 6. Shattock AJ, Johnson HC, Sim SY, Carter A, Lambach P, Hutbussey RCW, Thompson KM, Badizadegan K, Lambert B, Ferrari MJ, Jit M, Fu H, Silal SP, Hounsell RA, White RG, **Mosser JF**, Gaythorpe KAM, Trotter CL, Lindstrand A, O'Brien KL, Bar-Zeev N. Contribution of vaccination to improved survival and health: modelling 50 years of the Expanded Programme on Immunization. *Lancet*. 2024 May 25;403(10441):2307-2316. PMID: [38705159](#). DOI: [10.1016/S0140-6736\(24\)00850-X](#).
 7. Vollset SE ... **Mosser JF** ... Smith AE, Murray CJL (GBD 2021 Forecasting Collaborators). Burden of disease scenarios for 204 countries and territories, 2022-2050: a forecasting analysis for the Global Burden of Disease Study 2021. *Lancet*. 2024 May 18;403(10440):2204-2256. PMID: [38762325](#). DOI: [10.1016/S0140-6736\(24\)00685-8](#).
 8. Naghavi M, Mestrovic T, Gray A, Gershberg Hayoon A, Swetschinski LR, Robles Aguilar G, Davis Weaver N, Ikuta KS, Chung E, Wool EE, Han C, Araki DT, Albertson SB, Bender R, Bertolacci G, Browne AJ, Cooper BS, Cunningham MW, Dolecek C, Doxey M, Dunachie SJ, Ghoba S, Haines-Woodhouse G, Hay SI, Hsu RL, Iregbu KC, Kyu HH, Ledesma JR, Ma J, Moore CE, **Mosser JF**, Mougins V, Naghavi P, Novotney A, Rosenthal VD, Sartorius B, Stergachis A, Troeger C, Vongpradith A, Walters MK, Wunrow HY, Murray CJL (IHME Pathogen Core Group). Global burden associated with 85 pathogens in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Infect Dis*. 2024 Apr 16:S1473-3099(24)00158-0. PMID: [38640940](#). DOI: [10.1016/S1473-3099\(24\)00158-0](#).
 9. Ferrari AJ, Santomauro DF ... **Mosser JF** ... Vos T, Murray CJL (GBD 2021 Diseases and Injuries Collaborators). Global incidence, prevalence, years lived with disability (YLDs), disability-adjusted life-years (DALYs), and healthy life expectancy (HALE) for 371 diseases and injuries in 204 countries and territories and 811 subnational locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet*. 2024 Apr 15:S0140-6736(24)00757-8. PMID: [38642570](#). DOI: [10.1016/S0140-6736\(24\)00757-8](#).
 10. Bender RG, Sirota SB, Swetschinski LR, Villanueva Dominguez R-M, Novotney A, Wool EE, Ikuta KS, Vongpradith A, Best Rogowski EL, Doxey M, Troeger CE, Albertson SB, Ma J, He J, Maass KL, Simões EA ... Zheng P, Aravkin AY, Vos T, Hay SI, **Mosser JF**, Lim SS, Naghavi M, Murray CJL, Kyu HH. Global, regional, and national incidence and mortality burden of non-COVID-19 lower respiratory infections and aetiologies, 1990-2021: a systematic analysis from the Global Burden of Disease Study 2021. *Lancet Infect Dis*. 2024 Apr 15:S1473-3099(24)00176-2. PMID: [38636536](#). DOI: [10.1016/S1473-3099\(24\)00176-2](#).
 11. Naghavi M, Ong KL ... **Mosser JF** ... Wool EE, Murray CJL (GBD 2021 Causes of Death Collaborators). Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet*. 2024 Apr 3:S0140-6736(24)00367-2. PMID: [38582094](#). DOI: [10.1016/S0140-6736\(24\)00367-2](#).
 12. Steinmetz JD, Seeher KM, Schiess N, Nichols E, Cao B, Servili C, Cavallera V, Cousin E, Hagins H, Moberg ME, Mehlman ML ... **Mosser JF** ... Murray CJL, Ong KL, Feigin VL, Vos T, Dua T (GBD 2021

- Nervous System Disorders Collaborators). **Global, regional, and national burden of disorders affecting the nervous system, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021.** *Lancet Neurol.* 2024 Apr;23(4):344-381. PMID: [38493795](#). DOI: [10.1016/S1474-4422\(24\)00038-3](#).
13. Schumacher AE, Kyu HH ... **Mosser JF** ... Lim SS, Murray CJL (GBD Demographics Collaborators). **Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950-2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021.** *Lancet.* 2024 Mar 8:S0140-6736(24)00476-8. PMID: [38484753](#). DOI: [10.1016/S0140-6736\(24\)00476-8](#).
 14. Nascimento BR, Naback AND, Santos BMP, Geissbühler Y, Demacq C, Quijano M, Perel PA, Molina I, Eloah Machado I, Cousin E, **Mosser JF**, Rogerlândio Martins F, Ribeiro AL. **Prevalence of Clinical Forms of Chagas Disease: A Systematic Review and Meta-Analysis – Data from the RAISE Study.** *Lancet Reg Health Am.* 2024; 30(100681):eCollection 2024 Feb. PMID: [38327279](#). DOI: [10.1016/j.lana.2024.100681](#).
 15. Ribeiro ALP, The RAISE Study Collaborators, Machado I, Cousin E, Perel P, Demacq C, Geissbühler Y, de Souza A, Sosa Liprandi A, Nascimento BR, Franca EF, Rogerlândio Martins-Melo F, Roth GA, Molina I, Noronha K, Ishitani L, Carneiro M, Quijano M, Andrade MV, Naghavi M, **Mosser JF**, Piñeiro DJ. **The Burden of Chagas Disease in the Contemporary World: The RAISE Study.** *Glob Heart.* 2024; 19(1):2. PMID: [38222097](#). DOI: [10.5334/gh.1280](#).
 16. Sbarra AN, Jit M, **Mosser JF**, Ferrari M, Cutts F, Papania M, Kretsinger K, McCarthy KA, Thakkar N, Gaythorpe KAM, Gamage D, Krause LK, Dansereau E, Crowcroft N, Portnoy A. **Population-level risk factors related to measles case fatality: a conceptual framework based on expert consultation and literature review.** *Vaccines.* 2023 June. PMID: [37631957](#). DOI: [10.3390/vaccines11081389](#).
 17. Sbarra AN, Rolfe S, Haeuser E, Nguyen JQ, Adamu A, Adeyinka D, Ajumobi O, Akunna C, Amusa G, Dahiru T, Ekholuenetale M, Esezobor C, Fowobaje K, Hay SI, Ibeneme C, Ibitoye SE, Ilesanmi O, Kayode G, Krohn K, Lim SS, Medeiros L, Mohammed S, Nwatah V, Okoro A, Olagunju AT, Olusanya BO, Osarenotor O, Owolabi M, Pickering B, Sufiyan MB, Uzochukwu B, Walker A, **Mosser JF**. **Estimating vaccine coverage in conflict settings using geospatial methods: a case study in Borno State, Nigeria.** *Scientific Reports.* 2023 July 08;13(11085). PMID: [37422502](#). DOI: [10.1038/s41598-023-37947-8](#).
 18. Haeuser E, Nguyen JQ, Rolfe S, Nesbit O, Fullman N, **Mosser JF**. **Assessing geographic overlap between zero-dose diphtheria-tetanus-pertussis vaccination prevalence and other health indicators.** *Vaccines.* 2023 Apr 5;11(4):802. PMID: [37112714](#). DOI: [10.3390/vaccines11040802](#).
 19. Sbarra AN, **Mosser JF**, Jit M, Ferrari M, Ramshaw RE, O'Connor P, Krause LK, Rogowski ELB, Portnoy A. **Estimating national-level measles case fatality ratios in low- and middle-income countries: an updated systematic review and modelling study.** *Lancet Glob Health.* 2023 Apr;11(4):e516-e524. PMID: [36925172](#). DOI: [10.1016/S2214-109X\(23\)00043-8](#).
 20. Bender RG, Shen J, Aravkin A, Fouda AAB, Bwaka AM, Galles NC, Haeuser E, Hay SI, Latt A, Mwenda JM, Rogowski ELB, Sbarra AN, Sorensen RJD, Vongpradith A, Wright C, Zheng P, **Mosser JF**^{†‡}, Kyu HH[†]. **Meningococcal A conjugate vaccine coverage in the meningitis belt of Africa from 2010 to 2021: A modelling study.** *eClinicalMedicine.* 2023 Jan 05;56:101797. eCollection 2022 Feb. PMID: [36880052](#). DOI: [10.1016/j.eclinm.2022.101797](#).

21. Reiner RC, Welgan CA, Troeger CE, Baumann MM, Weiss DJ, Deshpande A, Blacker BF, Miller-Petrie MK, Earl L, Bhatt S ... **Mosser JF** ... Hay SI (LBD Triple Burden Collaborators). **The overlapping burden of the three leading causes of disability and death in sub-Saharan African children.** *Nat Commun.* 2022 Dec 06;13,7457. PMID: [36473841](#). DOI: [10.1038/s41467-022-34240-6](#).
22. Haakenstad A, Yearwood JA, Fullman N, Bintz C, Bienhoff K, Weaver MR, Nandakumar V, Joffee JN, LeGrand KE, Knight M ... **Mosser JF** ... Lim SS, Murray CJL, Lozano R. **Assessing performance of the Healthcare Access and Quality Index, overall and by select age groups, for 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019.** *Lancet Glob Health.* 2022 Dec;10(12):e1715-e1743. PMID: [36209761](#). DOI: [10.1016/S2214-109X\(22\)00429-6](#).
23. Kawakatsu Y, Adolph C, **Mosser JF**, Baffoe P, Cheshi F, Aiga H, Watkins D, Sherr KH. **Factors consistently associated with utilization of essential maternal and child health services in Nigeria: analysis of the five Nigerian national household surveys (2003-2018).** *BMJ Open.* 2022 Sept 17;12(9):e061747. PMID: [36115678](#). DOI: [10.1136/bmjopen-2022-061747](#).
24. Kyu HH, Vongpradith A, Sirota SB, Novotney A, Troeger CE, Doxey M, Bender RG, Ledesma JR, Biehl MH, Albertson SB, Frostad JJ, Burkhardt K, Bennitt FB, Zhao JT, Gardner WM, Hagins H, Bryazka D, Villanueva Dominguez R ... **Mosser JF** ... Lim SS, Vos T, Naghavi M, Brauer M, Hay SI, Murray CJL (GBD 2019 LRI Collaborators). **Age-sex differences in the global burden of lower respiratory infections and risk factors, 1990-2019: results from the Global Burden of Disease Study 2019.** *Lancet Infect. Dis.* 2022 Aug 11;S1473-3099(22)00510-2. PMID: [35964613](#). DOI: [10.1016/S1473-3099\(22\)00510-2](#).
25. Paulson KR, Kamath AM, Alam T, Bienhoff K ... **Mosser JF** ... Hay SI, Murray CJL, Wang H, Kassebaum NJ (GBD 2019 Under-5 Mortality Collaborators). **Global, regional, and national progress towards Sustainable Development Goal 3.2 for neonatal and child health: all-cause and cause-specific mortality findings from the Global Burden of Disease Study 2019.** *Lancet.* 2021 Sep 4;398(10303):870-905. PMID: [34416195](#). DOI: [10.1016/S0140-6736\(21\)01207-1](#).
26. Cromwell EA, Osborne JCP, Unnasch TR, Basáñez M, Gass KM, Barbre KA, Hill E, Johnson KB, Donkers KM, Shirude S, Schmidt CA ... **Mosser JF** ... Hay SI, Pigott DM. **Predicting the environmental suitability for onchocerciasis in Africa as an aid to elimination planning.** *PLoS Negl Trop Dis.* 2021 Jul. 28;15(7):e0008824. PMID: [34319976](#). DOI: [10.1371/journal.pntd.0008824](#).
27. Causey K, Fullman N, Sorensen RJD, Galles NC, Zheng P, Aravkin A, Danovaro-Holliday MC, Martinez-Piedra R, Sodha SV, Velandia-González MP, Gacic-Dobo M, Castro E, He J, Schipp M, Deen A, Hay SI, Lim SS, **Mosser JF**. **Estimating global and regional disruptions to routine childhood vaccine coverage during the COVID-19 pandemic in 2020: a modelling study.** *Lancet.* 2021 Aug 7;398(10299):522-534. PMID: [34273292](#). DOI: [10.1016/S0140-6736\(21\)01337-4](#).
28. Galles N*, Liu P*, Updike R*, Fullman N, Nguyen J, Rolfe S, Sbarra A, Schipp M, Marks A ... Lim SS, **Mosser JF** (GBD 2020 RI Vaccine Coverage Collaborators). **Measuring routine childhood vaccination coverage in 204 countries and territories, 1980-2019: a systematic analysis for the Global Burden of Disease Study 2020, Release 1.** *Lancet.* 2021 Aug 7;398(10299):503-521. PMID: [34273291](#). DOI: [10.1016/S0140-6736\(21\)00984-3](#).
29. Bhattacharjee NV, Schaeffer LE, Lu D, Schipp MF, Lazzar-Atwood A, Donkers KM ... **Mosser JF** ... Hay SI (Local Burden of Disease Exclusive Breastfeeding Collaborators). **Mapping inequalities in exclusive**

- breastfeeding in low- and middle-income countries, 2000-2018. *Nat Hum Behav*. 2021 Jun 3 [Online ahead of print]. PMID: [34083753](#). DOI: [10.1038/s41562-021-01108-6](#).
30. Sartorius B, VanderHeide JD, Yang M, Goosman EA, Hon J, Haeuser E, Cork MA, Perkins S, Jahagirdar D, Schaeffer LE, Serves AL, LeGrand KE ... **Mosser JF** ... Hay SI, Dwyer-Lindgren L (Local Burden of Disease HIV Collaborators). **Subnational mapping of HIV incidence and mortality among individuals aged 15-49 years in sub-Saharan Africa, 2000-18: a modelling study.** *Lancet HIV*. 2021 Jun;8(6):e363-e375. PMID: [34087097](#). DOI: [10.1016/S2352-3018\(21\)00051-5](#).
 31. Cutts FT, Ferrari MJ, Krause LK, Tatem AJ, **Mosser JF**. **Vaccination strategies for measles control and elimination: time to strengthen local initiatives.** *BMC Med*. 2021 Jan 5;19(1):2. PMID: [3397366](#). DOI: [10.1186/s12916-020-01843-z](#).
 32. Sbarra AN, Rolfe S, Nguyen JQ, Earl L, Galles NC, Marks A ... Hay SI, Lim SS, **Mosser JF** (Local Burden of Disease Vaccine Coverage Collaborators). **Mapping routine measles vaccination in low- and middle-income countries.** *Nature*. 2021 Jan;589(7842):415-419. PMID: [33328634](#). DOI: [10.1038/s41586-020-03043-4](#).
 33. Murray CJL ... **Mosser JF** ... Lopez AD, Vos T, Lim SS (GBD 2019 Viewpoint Collaborators). **Five insights from the Global Burden of Disease Study 2019.** *Lancet*. 2020 Oct 17;396(10258):1135-1159. PMID: [33069324](#). DOI: [10.1016/S0140-6736\(20\)31404-5](#).
 34. Murray CJL, Aravkin AY, Zheng P... **Mosser JF** ... Brauer M, Afshin A, Lim SS (GBD 2019 Risk Factors Collaborators). **Global burden of 87 risk factors in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019.** *Lancet*. 2020 Oct 17;396(10258):1223-1249. PMID: [33069327](#). DOI: [10.1016/S0140-6736\(20\)30752-2](#).
 35. Vos T, Lim SS ... **Mosser JF** ... Naghavi M, Murray CJL (GBD 2019 Diseases and Injuries Collaborators). **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.** *Lancet*. 2020 Oct 17;396(10258):1204-1222. PMID: [33069326](#). DOI: [10.1016/S0140-6736\(20\)30925-9](#).
 36. Wang H ... **Mosser JF** ... Murray CJL (GBD 2019 Demographics Collaborators). **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.** *Lancet*. 2020 Oct 17;396(10258):1160-1203. PMID: [33069327](#). DOI: [10.1016/S0140-6736\(20\)30977-6](#).
 37. Lozano R, Fullman N, Mumford JE, Knight M, Barthelemy CM ... **Mosser JF** ... Murray CJL (GBD 2019 Universal Health Coverage Collaborators). **Measuring universal health coverage based on an index of effective coverage of health services in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019.** *Lancet*. 2020 Aug 27; S0140-6736(20)30750-9. PMID: [32861314](#). DOI: [10.1016/S0140-6736\(20\)30750-9](#).
 38. Deshpande A, Miller-Petrie MK, Lindstedt PA, Baumann MM, Johnson KB, Blacker BF ... **Mosser JF** ... Hay SI, Reiner RC (Local Burden of Disease WaSH Collaborators). **Mapping geographical inequalities in access to drinking water and sanitation facilities in low-income and middle-income countries, 2000-17.** *Lancet Glob Health*. 2020 Sep;8(9):e1162-e1185. PMID: [32827479](#). DOI: [10.1016/S2214-109X\(20\)30278-3](#).
 39. Cromwell EA, Schmidt CA, Kwong KT, Pigott DM, Mupfasoni D, Biswas G, Shirude S, Hill E, Donkers KM ... **Mosser JF** ... King JD, Hay SI (Local Burden of Disease 2019 Neglected Tropical Diseases

- Collaborators). **The global distribution of lymphatic filariasis, 2000-18: a geospatial analysis.** *Lancet Glob Health.* 2020 Sep;8(9):e1186-e1194. PMID: [32827480](#). DOI: [10.1016/S2214-109X\(20\)30286-2](#).
40. Cork MA, Wilson KF, Perkins S, Collison ML, Deshpande A, Eaton JW, Earl L, Haeuser E, Justman JE, Kinyoki DK, Mayala BK, **Mosser JF**, Murray CJL, Nkengasong JN, Piot P, Sartorius B, Schaeffer LE, Serfes AL, Sligar A, Steuben KM, Tanser FC, VanderHeide JD, Yang M, Wabiri N, Hay SI, Dwyer-Lindgren L. **Mapping male circumcision for HIV prevention efforts in sub-Saharan Africa.** *BMC Med.* 2020 Jul 7;18(1):189. PMID: [32631314](#). DOI: [10.1186/s12916-020-01635-5](#).
 41. Micah AE, Su Y, Bachmeir SD, Chapin A, Cogswell IE, Crosby SW, Cunningham B, Harle AC, Maddison ER, Moitra M, Sahu M, Schneider MT, Simpson KE, Stutzman HN, Tsakalos G, Zende RR, Zlavog BS... **Mosser JF** ... Murray CJL, Dieleman JL (Global Burden of Disease Health Financing Collaborator Network). **Health sector spending and spending on HIV/AIDS, tuberculosis, and malaria, and development assistance for health: progress towards Sustainable Development Goal 3.** *Lancet.* 2020 Apr 23;S0140-6736(20)306008-5. PMID: [32334655](#). DOI: [10.1016/S0140-6736\(20\)30608-5](#).
 42. Kinyoki DK, Ross JM, Lazzar-Atwood A, Munro SB, Schaeffer LE ... **Mosser JF** ... Afshin A, Hay SI (Local Burden of Disease Double Burden of Malnutrition Collaborators). **Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017.** *Nature Med.* 2020 Apr 20;26,750-759. PMID: [32313249](#). DOI: [10.1038/s41591-020-0807-6](#).
 43. Kinyoki DK, Osgood-Zimmerman AE, Pickering BV, Schaeffer LE, Marczak LB, Lazzar-Atwood A, Collison ML, Henry NJ ... **Mosser JF** ... Kassebaum NJ, Hay SI (Local Burden of Disease Child Growth Failure Collaborators). **Mapping child growth failure across low- and middle-income countries.** *Nature.* 2020 Jan;577(7789):231-234. PMID: [31915393](#). DOI: [10.1038/s41586-019-1878-8](#).
 44. Graetz N, Woyczynski L, Wilson KF, Hall JB ... **Mosser JF** ... Gakidou E, Hay SI (Local Burden of Disease Educational Attainment Collaborators). **Mapping disparities in education across low- and middle-income countries.** *Nature.* 2020;577(7789):235-238. PMID: [31875853](#). DOI: [10.1038/s41586-019-1872-1](#).
 45. Troeger CE, Khalil IA, Blacker BF, Biehl MH ... **Mosser JF** ... Lim SS, Vos T, Mokdad AH, Murray CJL, Kyu HH, Hay SI, Reiner RC (GBD 2017 Diarrhoeal Disease Collaborators). **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.** *Lancet Infect Dis.* 2020;20(1):37-59. PMID: [31678029](#). DOI: [10.1016/S1473-3099\(19\)30401-3](#).
 46. Troeger CE, Khalil IA, Blacker BF, Biehl MH ... **Mosser JF** ... Lim SS, Vos T, Mokdad AH, Murray CJL, Kyu HH, Hay SI, Reiner RC (GBD 2017 Lower Respiratory Infections Collaborators). **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.** *Lancet Infect Dis.* 2020;20(1):60-79. PMID: [31678026](#). DOI: [10.1016/S1473-3099\(19\)30410-4](#).
 47. 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. **Identifying residual hotspots and mapping lower respiratory infection morbidity and mortality in African children from 2000 to 2017.** *Nat Microbiol.* 2019;4(12):2310-2318. PMID: [31570869](#). DOI: [10.1038/s41564-019-0562-y](#).

48. Bhattacharjee NV, Schaeffer LE, Marczak LB, Ross JM, Swartz SJ, Albright J, Gardner WM, Shields C, Silgar 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 JE**, Deshpande A, Burstein R, Woyczynski LP, Wilson KF, VanderHeide JD, Weins KE, Reiner RC, Piwoz EG, Rawat R, Sartorius B, Weaver ND, Nixon M, Smith D, Kassebaum NJ, Gakidou E, Lim SS, Mokdad AH, Murray CJL, Dwyer-Lindgren L, Hay SI. **Mapping exclusive breastfeeding in Africa between 2000 and 2017.** *Nat Med.* 2019; 25(8):1202-1212. PMID: [31332393](#). DOI: [10.1038/s41591-019-0525-0](#).
49. **Mosser JE**, Gagne-Maynard W, Rao PC, Osgood-Zimmerman A, Graetz N, Burstein R, Updike RL, Liu PY, Ray SE, Earl L, Deshpande A, Casey DC, Dwyer-Lindgren L, Cromwell EA, Pigott DM, Shearer F, Larson H, Weiss DJ, Bhatt S, Gething PW, Murray CJL, Lim SS, Reiner RC, Hay SI. **Mapping diphtheria-pertussis-tetanus vaccine coverage in Africa, 2000-2016: a spatial and temporal modelling study.** *Lancet.* 2019; 393(10183):1843-1855. PMID [30961907](#). DOI: [10.1016/S0140-6736\(19\)30226-0](#).
50. Reiner RC, Graetz N, Casey DC, Troeger C, Garcia GM, **Mosser JE**, Deshpande A, Swartz SJ, Ray SE, Blacker BF, Rao PC, Osgood-Zimmerman A, Burstein R, Pigott DM, Davis IM, Letourneau ID, Earl L, Ross JM, Khalil AI, Farag TH, Brady OJ, Kraemer MUG, Smith DL, Bhatt S, Weiss DJ, Gething PW, Kassebaum NJ, Mokdad AH, Murray CJL, Hay SI. **Variation in Childhood Diarrheal Morbidity and Mortality in Africa, 2000-2015.** *New Engl J Med.* 2018; 379:1128-1138. PMID: [30231224](#). DOI: [10.1056/NEJMoa1716766](#).
51. Shearer FM, Longbottom J, Browne AJ, Pigott DM, Brady OJ, Kraemer MU, Marinho F, Yactayo S, de Araújo VE, da Nóbrega AA, Fullman N, Ray SE, **Mosser JE**, Stanaway JD, Lim SS, Reiner RC, Moyes CL, Hay SI, Golding N. **Existing and potential global infection risk zones of yellow fever: a modelling analysis.** *Lancet Global Health.* 2018;6(3):e270-e278. PMID: [29398634](#). DOI: [10.1016/S2214-109X\(18\)30024-X](#).
52. Osgood-Zimmerman A, Millear 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, Kinyoki DK, Krause LK, Letourneau ID, Levine AJ, Liu PY, Longbottom J, Mayala BK, **Mosser JE**, 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. **Mapping child growth failure in Africa between 2000 and 2015.** *Nature.* 2018;555(7694):41-47. PMID: [29493591](#). DOI: [10.1038/nature25760](#).
53. Graetz N, Friedman J, Osgood-Zimmerman A, Burstein R, Biehl MH, Shields C, **Mosser JE**, Casey DC, Deshpande A, Earl L, Reiner RC, Ray SE, Fullman N, Levine AJ, Stubbs RW, Mayala BK, Longbottom J, Browne AJ, Bhatt S, Weiss DJ, Gething PW, Mokdad AH, Lim SS, Murray CJL, Gakidou E, Hay SI. **Mapping local variation in educational attainment across Africa.** *Nature.* 2018;555(7694):48-53. PMID: [29493588](#). DOI: [10.1038/nature25761](#).
54. Kawakami V, Casto A, Natarajan N, Synder A, **Mosser J**, Bonwitt J, Kronman M, Kay M. **Baylisascaris procyonis Encephalomyelitis in a Toddler – King County, Washington, 2017.** *MMWR.* 2018; 67(2):79-80. PMID: [29346337](#). DOI: [10.15585/mmwr.mm6702a6](#).
55. Shearer FM, Moyes CL, Pigott DM, Brady OJ, Marinho F, Deshpande A, Longbottom J, Browne AJ, Kraemer MUG, O'Reilly KM, Hombach J, Yactayo S, de Araújo VEM, da Nóbrega AA, **Mosser JE**, Stanaway JD, Lim SS, Hay SI, Golding N, Reiner RC Jr. **Global yellow fever vaccination coverage from**

1970 to 2016: an adjusted retrospective analysis. *Lancet Infect Dis*. 2017;17(11):1209-1217. PMID: 28822780. DOI: [10.1016/S1473-3099\(17\)30419-X](https://doi.org/10.1016/S1473-3099(17)30419-X).

56. Troeger C, Forouzanfar M, Rao PC, Khalil I, Brown A, Swartz S, Fullman N, **Mosser J**, Thompson RL, Reiner RC Jr, Abajobir A, Alam N, Alemayohu MA, Amare AT, Antonio CA, Asayesh H, Avokpaho E, Barac A, Beshir MA, Boneya DJ, Brauer M, Dandona L, Dandona R, Fitchett JRA, Gebrehiwot TT, Hailu GB, Hotez PJ, Kasaeian A, Khoja T, Kissoon N, Knibbs L, Kumar GA, Rai RK, El Razek HMA, Mohammed MSK, Nielson K, Oren E, Osman A, Patton G, Qorbani M, Roba HS, Sartorius B, Savic M, Shigematsu M, Sykes B, Swaminathan S, Topor-Madry R, Ukwaja K, Werdecker A, Yonemoto N, El Sayed Zaki M, Lim SS, Naghavi M, Vos T, Hay SI, Murray CJL, Mokdad AH. **Estimates of the global, regional, and national morbidity, mortality, and aetiologies of lower respiratory tract infections in 195 countries: a systematic analysis for the Global Burden of Disease Study 2015.** *Lancet Infect Dis*. 2017;17(11):1133-1161. PMID: [28843578](https://pubmed.ncbi.nlm.nih.gov/28843578/). DOI: [10.1016/S1473-3099\(17\)30396-1](https://doi.org/10.1016/S1473-3099(17)30396-1).
57. **Mosser JF**, Grant LR, Millar EV, Weatherholtz RC, Jackson DM, Beall B, Craig MJ, Reid R, Santosham M, O'Brien KL. **Nasopharyngeal carriage and transmission of *Streptococcus pneumoniae* in American Indian households after a decade of pneumococcal conjugate vaccine use.** *PLoS ONE*. 2014;9(1):e79578. PMID: [24465365](https://pubmed.ncbi.nlm.nih.gov/24465365/). DOI: [10.1371/journal.pone.0079578](https://doi.org/10.1371/journal.pone.0079578).
58. Estripeaut D*, **Mosser J***, Doherty M, Acosta W, Shah H, Castaño E, Luciani K, Pascale JM, Bollinger RC, Page KR. **Mortality and long-term virologic outcomes in children and infants treated with lopinavir/ritonavir.** *Pediatr Infect Dis J*. 2013;32(12):e466-72. PMID: [23799516](https://pubmed.ncbi.nlm.nih.gov/23799516/). DOI: [10.1097/INF.0b013e3182a09276](https://doi.org/10.1097/INF.0b013e3182a09276).

* co-first authors

† co-senior authors

‡ corresponding author (if not last author)

Invited Correspondence

1. Causey K, **Mosser JF**. **Learning from the COVID-19 pandemic to strengthen routine immunization systems.** *PLoS Med*. 2022;19(2): e100393. PMID: [35192616](https://pubmed.ncbi.nlm.nih.gov/35192616/). DOI: [10.1371/journal.pmed.1003934](https://doi.org/10.1371/journal.pmed.1003934).
2. **Mosser JF**, Causey K, Fullman N. **Prioritising immunisation across the life course – Authors' reply.** *Lancet*. 2021;398(10317):2145-2146. PMID: [34895525](https://pubmed.ncbi.nlm.nih.gov/34895525/). DOI: [10.1016/S0140-6736\(21\)02330-8](https://doi.org/10.1016/S0140-6736(21)02330-8).

Presentations (Academic Conferences)

1. **Mosser, J***, Rao PC, Osgood-Zimmerman A, Fullman N, Graetz N, Burstein R, Updike RL, Ray SE, Earl L, Desphande A, Dwyer-Lindgren L, Lim SS, Reiner RC, Hay SI. **Mapping diphtheria-tetanus-pertussis vaccine coverage in Africa, 2000-2016.** Platform presentation at the American Society of Tropical Medicine and Hygiene Annual Meeting; 2019 October 29; New Orleans, LA.
2. **Mosser J***, Mugo J, Naulikha J, Walson J, Pak-Gorstein S, Nduati R, Batra M. **Changing Patterns of Neonatal Care in Kisii, Kenya after implementation of a free maternity care policy.** Platform presentation at the Pediatric Academic Societies Meeting; 2017 May 6; San Francisco, CA.
3. Estripeaut D, **Mosser J***, Doherty M, Acosta W, Shah H, Castano E, Luciani K, Pascale J, Bollinger R, Page K. **Mortality and Long-Term Virologic Outcomes in Children and Infants Treated with**

Lopinavir/ritonavir-based Therapy: Panama. Poster session presented at the 20th Conference on Retroviruses and Opportunistic Infections; 2013 March 3-6; Atlanta, GA.

* presenting author

Presentations (Invited)

1. **Estimating and Mapping Vaccine Coverage at IHME Using R.** Coding for Health group meeting; Kinshasa School of Public Health; Jan 26, 2024; Virtual session.
2. **Improving DALY estimates for NTDs.** WHO NTD Strategic Technical Advisory Group Meeting on Monitoring, Evaluation, and Research of Neglected Tropical Diseases; Nov 15, 2023; Virtual session.
3. **Modeling Trends in Morbidity of Neglected Tropical Diseases.** WHO/NTD Modelling Consortium Meeting; Sept 22, 2022; Virtual session.
4. **Modeling Non-fatal Health Outcomes in the Global Burden of Disease Study.** Africa CDC – East Africa Region Burden of Disease Meeting; Sept 5-9, 2022; Addis Ababa, Ethiopia.
5. **Modeling Disruptions in Routine Immunization Due to COVID.** 2021 Outbreak Preparedness and Response Meeting; Médecins Sans Frontières; January 20, 2021; Virtual session (due to pandemic).
6. **Measuring Vaccine Coverage at IHME.** Immunization Services Division Seminar; Centers for Disease Control and Prevention; September 5, 2019; Atlanta, GA.
7. **Subnational Administrative Data for Modeling.** Geospatial Immunization Modeling for Equity: Summer 2019 Technical Meeting; hosted by the Equity Reference Group, Bill and Melinda Gates Foundation, and UNICEF; August 15-16, 2019; Washington, DC.
8. **Subnational Variation in Measles Vaccination Coverage, Africa (2000-2017).** Measles Technical Advisory Group; Gavi; February 26, 2019; Geneva, Switzerland.
9. **Improving Vaccine Coverage Equity** (panel discussion). Innovations to Improve Vaccine Equity meeting; Center for Strategic and International Studies; November 13, 2018; Washington, DC.
10. **Mapping Vaccine Coverage.** WHO/UNICEF Meeting on Monitoring National Immunization Systems; October 8, 2018; Budapest, Hungary.

Conference Leadership

1. **Vaccine-Preventable Diseases in a Post-COVID World.** Co-organizer and session chair. NSF PREPARE workshop, June 7-8, 2022; Virtual workshop (due to pandemic).

RESEARCH FUNDING

Grant Funding

2024-2026	Supporting future planning and prioritization for NTDs through better burden estimation. Bill and Melinda Gates Foundation (INV-071859). Role: PI.
2022-2025	Geospatial mapping of vaccine coverage to advance the equity agenda. Bill and Melinda Gates Foundation (INV-037425) and Gavi. Role: PI.
2022-2023	Future needs for estimation of measles case fatality ratios (CFRs). Bill and Melinda Gates Foundation (INV-019383). Role: sub-investigator (PI: Allison Portnoy, Harvard University).
2018-2022	High-resolution spatial mapping of childhood vaccine coverage in 95 countries. Bill and Melinda Gates Foundation (OPPI182474). Role: Co-PI (with Stephen Lim)
2020-2021	Mapping measles burden in low- and middle-income countries. Supplement to OPPI182474 (above).

SERVICE

University of Washington

2023-Present	Member, Curriculum Committee, PhD in Global Health (Metrics Track) degree program (Department of Global Health)
2020-Present	Member, Curriculum Committee, Master of Science in Health Metrics Sciences degree program (Department of Health Metrics Sciences)
2020-2023	Member, Steering Committee and Admissions Committee, Master of Science in Health Metrics Sciences degree program (Department of Health Metrics Sciences)

International

2022-Present	Member, Technical Steering Group on Vaccination Coverage Estimates (WHO/UNICEF). Working group functioning as part of the IA2030 Data Strengthening and Use Working Group, providing technical support WHO and UNICEF in the estimation of vaccine coverage estimates and dissemination of results.
2020-Present	Stakeholder Committee Member. Advisory committee for WHO Department of Immunization, Vaccines, and Biologicals (WHO-IVB) and Division of Data, Analytics, and Delivery for Impact (DDI) project to generate estimates of lives saved due to vaccination to inform Immunization Agenda 2030 (IA2030) and Triple Billion targets for the 13th General Programme of Work (GPW13)

TEACHING EXPERIENCE

University Courses: Primary Instructor

- 2023 **HMS 530: Global Burden of Disease: Methods and Results.** Department of Health Metrics Sciences, University of Washington (Spring 2023). Co-primary instructor with Drs. Mae Dirac and Lisa Force.
- 2021 **HMS 592A: Health Metrics Science Seminar.** Department of Health Metrics Sciences, University of Washington (Autumn 2021).

University Courses: Non-Primary Instructor

- 2022-Present **Fundamentals of Medical Science and Research: Research Methods.** Small group leader. School of Medicine, University of Washington (August 2022, August 2023)

Lectures and Presentations

- 2024 **Foodborne Illnesses.** Fellows' Lecture, Division of Pediatric Infectious Diseases, Seattle Children's Hospital (February 2024).
- 2023 **Fever of Unknown Origin.** Noon conference lecture for pediatric residents at Seattle Children's Hospital (October 2023).
- 2023 **Biostatistics and Epidemiology.** Fellows' Lecture, Division of Pediatric Infectious Diseases, Seattle Children's Hospital (February 2023).
- 2022 **Bioterrorism.** Fellows' Lecture, Division of Pediatric Infectious Diseases, Seattle Children's Hospital (April 2022).
- 2021 **Estimating Global and Local Patterns of Vaccine Coverage: A Case Study of Data, its Limitations, and Modeling Approaches.** Presentation to the Housestaff Quality and Safety Committee at the University of Washington (April 2021).
- 2021 **Foodborne Illnesses.** Fellows' Lecture, Division of Pediatric Infectious Diseases, Seattle Children's Hospital (January 2021).
- 2020-Present **Which Antibiotics Should I Use? Inpatient and Outpatient Management of Common Pediatric Infections.** Interactive case-based teaching session for graduating fourth-year medical students as part of the Transition to Residency curriculum at the University of Washington School of Medicine; small-group interactive teaching session (April 2020, May 2021, May 2022, May 2023, May 2024).
- 2020 **Helminth Infections.** Fellows' Lecture, Division of Pediatric Infectious Diseases, Seattle Children's Hospital (January 2020).
- 2019 **Measles.** Presentation for Emergency Department fellows and faculty at Seattle Children's Hospital (September 2019).
- 2019 **Measles.** Noon conference lecture for pediatric residents at Seattle Children's Hospital (July 2019).

- 2018 **Vaccines and Vaccine-Preventable Diseases.** Noon conference lectures for pediatric residents at Seattle Children’s Hospital (August 2018, September 2018)
- 2018 **Keeping Up With the Literature as a Resident.** Noon conference lecture for pediatric residents at Seattle Children’s Hospital (February 2018)
- 2017 **Bugs & Drugs: Antibiotic Use in the ICU.** Presentations to ICU nurses for Seattle Children’s Hospital ICU RN Advanced Education Days (March 2017, September 2017, June 2018).
- 2017 **Fever of Unknown Origin.** Noon conference lecture for pediatric residents at Seattle Children’s Hospital (September 2017).
- 2017 **Fundamentals of Antibiotic Use for the Pediatric Resident.** Presentation to graduating fourth-year medical students at the University of Washington School of Medicine entering pediatric residency programs; small-group interactive teaching session (May 2017).

Thesis / Dissertation Committees

- 2024 Arden Saravis, MPH. “Exploring Predictive Composite Measures for Global Health Facility Disruptions in Conflict Zones: An analysis of Armed Conflict Location and Event Data Project (ACLED) Indicators for Health Facility Disruption Status.” Department of Epidemiology, University of Washington. MPH capstone committee member.
- 2023 Latera Olana, MS. “Mapping Immunization Landscapes: Estimating Full Immunization Coverage and Disparities Across 982 Ethiopian Districts.” (Completed August 2023). Department of Health Metrics Sciences, University of Washington. MS capstone committee member.
- 2023 Dereje Yada, MS. “Trends in childhood vaccination inequality and associated factors in Ethiopia: Evidence from Ethiopian Demographic health survey (2000-2019).” (Completed August 2023). Department of Health Metrics Sciences, University of Washington. MS capstone committee member.
- 2022 Max Pierce, MPH. “The Deaths Lost in Vaccine Projections”. (Completed August 2022). Department of Global Health, University of Washington. MPH thesis committee chair.
- 2022 Emma Rogowski, MPH. “Armed conflict and infectious disease: quantifying the association between mortality rate due to war and terrorism and measles incidence, 2000-2019”. (Completed June 2022). Department of Global Health, University of Washington. MPH thesis committee chair.
- 2021-Present Nancy Fullman, PhD candidate. “Measuring key drivers of childhood immunization: secondary data analysis of facility readiness, community access, and vaccine perceptions and intent.” Department of Global Health, University of Washington. Doctoral supervisory committee chair.
- 2021 Brittney Sheena, MPH. “Estimation of chronic hepatitis C accounting for treatment”. (Completed September 2021). Department of Global Health, University of Washington. MPH thesis committee chair.

2021	Natalie Galles, MPH. “Estimation of childhood vaccine scale-up rates by country and vaccine”. (Completed June 2021). Department of Global Health, University of Washington. MPH thesis committee chair.
2020-2024	Alyssa Sbarra, PhD. “Development and application of subnational measles incidence and mortality estimates in high-burden and -incidence settings.” Department of Infectious Disease Epidemiology, London School of Hygiene and Tropical Medicine. Co-supervisor (with Mark Jit, PhD).
2020	Kai Fukutaki, MPH. “Modeling the impact of geographic targeting of rotavirus vaccination in India on rotavirus diarrhea mortality in children under 5 years of age”. (Completed June 2020). Department of Global Health, University of Washington. MPH thesis committee member.
2019-2023	Yoshito Kawakatsu, PhD. “Priority setting for achieving Universal Health Coverage in Ghana: A Spatial and Temporal Analysis and Cost-Benefit Analysis”. Department of Global Health, University of Washington. Doctoral supervisory committee member
2018	Rachel Updike, MPH. “The fully immunized child: Summarizing intracountry inequalities in coverage with seven routine vaccines in 195 countries and territories” (Completed December 2018). Department of Global Health, University of Washington. MPH thesis committee member.

Research Mentorship

2023-Present	Giovanna Rotondo de Araújo. Doctoral Candidate, concentration in Parasitology, Universidade Federal de Minas Gerais (Belo Horizonte, MG, Brazil). Research mentor, visiting research internship (VISIT program) at the University of Washington. Topic: COVID-19 pandemic effects on NTD surveillance and epidemiology.
2023-Present	Winy Éveny Alves Moura. Doctoral Candidate, concentration in Vaccines, Federal University of Goiás (Goiana, GO, Brazil). Research mentor, visiting research internship (VISIT program) at the University of Washington. Topic: Estimation of vaccination coverage using multiple data sources in Brazil.
2023-Present	Latera Olana, MS. Doctoral Candidate, Health Metrics Sciences, University of Washington. Research assistantship supervisor & interim faculty advisor. Topic: methods to enhance vaccine coverage estimation in Ethiopia.
2023	Isabelle Thiara, BS. Undergraduate Researcher, University of Notre Dame. (Visiting Research Institute at IHME). Topic: Spatial analyses of administrative vaccination data.
2021-2023	Amin Bemanian, MD/PhD. Pediatric Resident, University of Washington School of Medicine / Seattle Children’s Hospital (research track). Topic: Spatial analyses of vaccination coverage and access to vaccination services.
2020	Jasmine Shen, MS-1. University of Washington School of Medicine. Topic: systematic review of meningococcal conjugate vaccination coverage

2020-Present	Priscilla Natcher, MS-1. University of Washington School of Medicine. Topic: systematic review of immunosuppression following measles infection
2020	Aashka Damani, MS-1. University of Washington School of Medicine. Topic: systematic review of pertussis case fatality
2019-2022	Emma Rogowski, BS. Post-Bachelor Fellow, Institute for Health Metrics and Evaluation. Topic: modeling vaccine-preventable disease burden (measles, tetanus, diphtheria, pertussis, and varicella) for the Global Burden of Disease study
2018-2021	Natalie Galles, BS. Post-Bachelor Fellow, Institute for Health Metrics and Evaluation. Topic: modeling routine childhood vaccination coverage and vaccine-preventable disease burden for the Global Burden of Disease study
2018-2019	Rachel Updike, MPH. Post-Bachelor Fellow, Institute for Health Metrics and Evaluation. Topic: modeling routine childhood vaccination coverage for the Global Burden of Disease study

WORK EXPERIENCE

2006-2008	Health Care Program Coordinator, Life Challenge International	Juárez, Mexico
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HONORS & AWARDS

Seattle Children's Hospital / University of Washington Pediatric Residency Program

2016	Award for Outstanding Peer Teaching
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Johns Hopkins University School of Medicine

2013	Alpha Omega Alpha
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2013	Helen and Harold Harrison Award For "outstanding proficiency in pediatrics"
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2008-2009	Franklin Paine Mall Award For "outstanding performance in the first-year medical curriculum"
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Johns Hopkins Bloomberg School of Public Health

2012	Reed-Frost Scholarship Awarded to "selected incoming MPH students who show exceptional ability and promise"
	Dean's Alumni Advisory Council Scholarship Awarded to "students whose careers in public health will be dedicated to the global defense of human life through the prevention of disease, disability, and premature death"
	MPH Capstone Award Awarded to MPH students with the "best overall capstone written projects"

Middlebury College

2006 **Salutatorian**, class of 2006
Departmental High Honors in Biochemistry
Phi Beta Kappa
College Scholar for all semesters

ADDITIONAL

- **Language Skills:** Highly proficient in oral and written Spanish
- **Computer Skills:** Highly proficient in R including distributed computing, data visualization, spatial analysis, statistical and computational modeling