

## William M. Gardner

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### Education

Columbia University  
Doctor of Medicine

New York, NY  
Expected 2026

University of Washington  
MPH in Global Health: Health Metrics and Evaluation

Seattle, WA  
2020

Thesis: *Global, Regional, and National Estimates of Complete Coverage of Maternal Obstetric Care Interventions, 1990-2019* (Committee: Nicholas Kassebaum [chair] and Meagan Dirac)

Harvard University  
B.A. Magna cum laude with Highest Honors in Sociology

Cambridge, MA  
2017

Thesis: *Institutions, Inequalities, and Infant Death: Understanding the Role of Health Care Decommodification in Latin America* (Adviser: Jason Beckfield; Readers: Peter V. Marsden and Katherine Morris)

Minor: Global Health and Health Policy

### Experience

#### Institute for Health Metrics and Evaluation

Researcher (2020 – present); Post-Bachelor Fellow (2017-2020)

Sep. 2017 - present  
Seattle, WA

Work on the Maternal and Child Health team as part of the Global Burden of Disease Study; Model disease burden due to neonatal infectious diseases, distribution of population hemoglobin levels and prevalence of anemia, burden of disease attributable to lead exposure and suboptimal breastfeeding, and a variety of maternal and child health interventions, including coverage of antenatal care, skilled birth attendance, caesarean section, and postnatal care.

#### Department of Sociology, Harvard University

Research Assistant

June 2015-May 2017  
Cambridge, MA

Worked under the direction of Professor Jason Beckfield on a project researching the effects of income inequality on population health in Latin America using cross-national economic and health data from the World Income Inequality Database, World Bank, and World Values Survey.

#### Department of Global Health and Health Policy, Harvard University

Cordeiro Summer Research Fellow

May-August 2016  
Cambridge, MA

Conducted research for individual project entitled "Evaluating Distributional Effects of the Welfare State on Health in Latin America," which culminated in my senior thesis; Duties included performing extensive literature reviews and cited reference searches, acquiring and cleaning relevant data sources, data modeling and statistical analysis, and manuscript writing.

#### Child Family Health International

Urban and Rural Comparative Health Intern

June-August 2014  
Quito and Chone, Ecuador

Observed and participated in clinical rotations in various specialty clinics and hospitals in the towns of Quito and Chone, Ecuador; Researched and reported on topics dealing with health disparities and inequalities between urban and rural healthcare systems; attended weekly lectures on topics in global health and health policy in Ecuador.

## Articles

**Gardner WM**, GBD 2020 Anaemia Collaborators, and Kassebaum NJ. Prevalence, years lived with disability, and trends in anaemia burden by severity and cause from 1990-2021: findings from the Global Burden of Disease Study 2021. Accepted at *The Lancet Haematology*.

GBD 2021 Sickle Cell Disease Collaborators (including **Gardner WM**). Global, regional, and national prevalence and mortality burden of sickle cell disease, 2000-2021: a systematic analysis from the Global Burden of Disease Study 2021. *The Lancet Haematology* 2023. Advance online publication. [https://doi.org/10.1016/S2352-3026\(23\)00118-7](https://doi.org/10.1016/S2352-3026(23)00118-7)

GBD 2019 Healthcare Access and Quality Collaborators (including **Gardner WM**). 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. *The Lancet Global Health* 2022; **10**: e1715-e1743. [https://doi.org/10.1016/S2214-109X\(22\)00429-6](https://doi.org/10.1016/S2214-109X(22)00429-6)

GBD 2019 LRI Collaborators (including **Gardner WM**). 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. *The Lancet Infectious Diseases* 2022; **22**: 1626-1647. [https://doi.org/10.1016/S1473-3099\(22\)00510-2](https://doi.org/10.1016/S1473-3099(22)00510-2)

Gonçalves BP, Procter SR, Paul P, Chandna J, *et al.* (including **Gardner WM**). Group B streptococcus infection during pregnancy and infancy: estimates of regional and global burden. *The Lancet Global Health* 2022; **10**: e807-e819. [https://doi.org/10.1016/S2214-109X\(22\)00093-6](https://doi.org/10.1016/S2214-109X(22)00093-6)

Fitzgerald R, Manguerra H, Arndt MB, **Gardner WM**, *et al.* Current dichotomous metrics obscure trends in severe and extreme child growth failure. *Science Advances* 2022; **8**. <https://doi.org/10.1126/sciadv.abm8954>

GBD 2019 Under-5 Mortality Collaborators (including **Gardner WM**). 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. *The Lancet* 2021; **398**: 870-905. [https://doi.org/10.1016/S0140-6736\(21\)01207-1](https://doi.org/10.1016/S0140-6736(21)01207-1)

Local Burden of Disease Exclusive Breastfeeding Collaborators (including **Gardner WM**). Mapping inequalities in exclusive breastfeeding in low- and middle-income countries, 2000-2018. *Nature Human Behaviour* 2021; **5**: 1027-1045. <https://doi.org/10.1038/s41562-021-01108-6>

GBD 2019 Universal Health Coverage Collaborators (including **Gardner WM**). 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. *The Lancet* 2020; **396**: 1250-1284. [https://doi.org/10.1016/S0140-6736\(20\)30750-9](https://doi.org/10.1016/S0140-6736(20)30750-9)

GBD 2019 Risk Factors Collaborators (including **Gardner WM**). 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* 2020; **396**: 1223-1249. [https://doi.org/10.1016/S0140-6736\(20\)30752-2](https://doi.org/10.1016/S0140-6736(20)30752-2)

GBD 2019 Diseases and Injuries Collaborators (including **Gardner WM**). 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* 2020; **396**: 1204-1222. [https://doi.org/10.1016/S0140-6736\(20\)30925-9](https://doi.org/10.1016/S0140-6736(20)30925-9)

GBD 2019 Viewpoint Collaborators (including **Gardner WM**). Five insights from the Global Burden of Disease Study 2019. *The Lancet* 2020; **396**: 1135-1159. [https://doi.org/10.1016/S0140-6736\(20\)31404-5](https://doi.org/10.1016/S0140-6736(20)31404-5)

India State-Level Disease Burden Initiative Child Mortality Collaborators (including **Gardner WM**). Subnational mapping of under-5 and neonatal mortality trends in India: the Global Burden of Disease Study 2000-17. *The Lancet* 2020; **395**: 1640-1658. [https://doi.org/10.1016/S0140-6736\(20\)30471-2](https://doi.org/10.1016/S0140-6736(20)30471-2)

GBD 2017 LRI Collaborators (including **Gardner WM**). 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* 2020; **20**: 60-79. [https://doi.org/10.1016/S1473-3099\(19\)30410-4](https://doi.org/10.1016/S1473-3099(19)30410-4)

GBD 2017 Diarrhea Collaborators (including **Gardner WM**). 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* 2020; **20**: 37-59. [https://doi.org/10.1016/S1473-3099\(19\)30401-3](https://doi.org/10.1016/S1473-3099(19)30401-3)

India State-Level Disease Burden Initiative Malnutrition Collaborators (including **Gardner WM**). The burden of child and maternal malnutrition and trends in its indicators in the states of India: the Global Burden of Disease Study 1990-2017. *The Lancet Child & Adolescent Health* 2019; **3**: 855-870. [https://doi.org/10.1016/S2352-4642\(19\)30273-1](https://doi.org/10.1016/S2352-4642(19)30273-1)

Bhattacharjee N, Schaeffer L, Marczak L, Ross J, Swartz S, Albright J, **Gardner WM**, Shields C, *et al*. Mapping exclusive breastfeeding in Africa between 2000 and 2017. *Nature Medicine* 2019; **25**: 1205-1212. <https://doi.org/10.1038/s41591-019-0525-0>

Lozano R, Fullman N, Abate D, *et al.* (including **Gardner WM**). Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018; **392**: 2091–138. [https://doi.org/10.1016/S0140-6736\(18\)32281-5](https://doi.org/10.1016/S0140-6736(18)32281-5)

Stanaway JD, Afshin A, Gakidou E, *et al.* (including **Gardner WM**). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018; **392**: 1923–94. [https://doi.org/10.1016/S0140-6736\(18\)32225-6](https://doi.org/10.1016/S0140-6736(18)32225-6)

James SL, Abate D, Abate KH, *et al.* (including **Gardner WM**). Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018; **392**: 1789–858. [https://doi.org/10.1016/S0140-6736\(18\)32279-7](https://doi.org/10.1016/S0140-6736(18)32279-7)

Kyu HH, Abate D, Abate KH, *et al.* (including **Gardner WM**). Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018; **392**: 1859–922. [https://doi.org/10.1016/S0140-6736\(18\)32335-3](https://doi.org/10.1016/S0140-6736(18)32335-3)

Roth GA, Abate D, Abate KH, *et al.* (including **Gardner WM**). Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018; **392**: 1736–88. [https://doi.org/10.1016/S0140-6736\(18\)32203-7](https://doi.org/10.1016/S0140-6736(18)32203-7)

## Conference Presentations

**Gardner WM** and Kassebaum NJ. 2020. “Global, Regional, and National Prevalence of Anemia and Its Causes in 204 Countries and Territories, 1990-2019.” American Society for Nutrition 2020 Annual Conference (Finalist for Emerging Leaders in Nutrition Science Award)

**Gardner WM** and Kassebaum NJ. 2020. “Global, Regional, and National Prevalence and Trends in Infant Breastfeeding Status in 204 Countries and Territories, 1990-2019.” American Society for Nutrition 2020 Annual Conference

**Gardner WM** and Kassebaum NJ. 2019. “Global, Regional, and National Coverage of Maternal Care Interventions.” Society for Pediatric and Perinatal Epidemiology 2020 Annual Conference

### **Professional Organizations**

Society for Pediatric and Perinatal Epidemiology	2019 – Present
American Society for Nutrition	2019 – Present
WHO Scientific Advisory Group for Group B Streptococcus vaccine value proposition	2019 – 2022

### **Honors and Awards**

Emerging Leaders in Nutrition Science, American Society of Nutrition (finalist)	2020
Phi Beta Kappa	2017
David McCord Prize (Harvard University)	2017
John Harvard Scholar	2016 - 2017
Cordeiro Health Policy Summer Research Fellowship	2016
Sales Prize for Best Undergraduate Composition in Spanish (Harvard University)	2016