# Lauren Wilner, MPH

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GOOGLE SCHOLAR

## EXPERIENCE

**University of Washington, School of Public Health** **Seattle, WA**
**PhD student and Research Assistant, Department of Epidemiology** September 2022 – present

**Institute for Health Metrics and Evaluation (IHME)** **Seattle, WA**
*Research Scientist, Disease Expenditure* September 2022 - Present
*Research Scientist, Global Burden of Disease (GBD)* January 2019 – September 2022
*Researcher, Global Burden of Disease (GBD)* August 2017 – January 2019

IHME is an independent research institute affiliated with the University of Washington and the Bill and Melinda Gates Foundation that estimates global health metrics. The GBD is a global study quantifying health loss for every country, sex, age, and year since 1980.

- Statistical modeler for all congenital birth defects for the GBD for every iteration of the study since 2017.
- Manage large datasets consisting of tabulated and individual-level data from various birth registries, hospitals, insurance companies, and literature reviews.
- Use Bayesian regression predictive modeling in order to estimate the global burden of birth defects.
- Develop novel statistical analyses to address the unique epidemiology of birth defects in predicting burden; use cutting-edge methods to model prevalence, incidence, mortality, and remission due to birth defects globally.
- Design and run entire modeling pipeline from data processing to statistical modeling to design/generation of diagnostic tables and figures, primarily in R and Python.
- Lead a team of researchers and data professionals modeling birth defects, blood disorders, and cerebral palsy; provide technical assistance and assist in driving the direction of current and future research.
- Lead and co-lead peer-reviewed publications; present at internal and external meetings and conferences.

**Field Epidemiology Training Programs (FETP), Centers for Disease Control (CDC)** **Atlanta, GA**
*ASPPH/CDC Allan Rosenfield Global Health Fellow* August 2015 – August 2017

FETP is part of the Center for Global Health at CDC and provides technical assistance to Ministries of Health globally in the establishment of epidemiology training programs for host country doctors and public health professionals.

- Assistant program manager for FETP implementation across Francophone West Africa (~50% travel to countries in the region); Acting Public Health Advisor for implementation of FETP Senegal.
- Provided technical support for FETP implementation in Zika-affected countries of Central/South America.
- Assisted with conducting monitoring and evaluation of FETPs worldwide.

**International Nutrition Foundation (INF) TRUMF Ghana Study** **Boston, MA**
*Data Analyst* June 2015 – August 2015

This study evaluated effects of a fortified food supplement on children's growth, morbidity, micronutrient status and development in Ghana. Assisted with data analysis plan, data cleaning and data analysis.

**Food Aid Quality Review (FAQR) study, Tufts University Friedman School of Nutrition** **Boston, MA**
*Data Analyst/GIS Specialist* June 2014 – August 2017
*Research Assistant/Intern* September 2013 – June 2014

FAQR is studying effectiveness and cost-effectiveness of supplementary feeding programs that prevent and treat moderate acute malnutrition (MAM), stunting, and wasting in three countries of sub-Saharan Africa.

- Data analyst for USAID- funded field studies in Malawi, Sierra Leone, and Burkina Faso on malnutrition and supplementary feeding programs; GIS analysis for these three field studies.
- Co- created of data collection instruments and templates; Literature review on food aid/malnutrition.

**Code Innovation, LLC** **Boston, MA**
*Mobile Health Education Intern* January 2015 – August 2017

Code Innovation is a small technology company working on ICT4D for mobile education. I performed a literature review of best practices in community mental health programming in post-conflict and humanitarian emergency settings and/or around PTSD and trauma response.

**Harvard Business School Zambian Water Project** **Cambridge, MA**

***Research Assistant/Data Analyst*** November 2014 – January 2015

This is a data-driven project on water access and health outcomes in Lusaka, Zambia. I assisted with data extraction, entry, and cleaning for data coming from the Zambian Ministry of Health and Ministry of Education, in addition to preparing data for analysis at Harvard Business School and the National Bureau of Economics Research.

**Doctors without Borders (Médecins Sans Frontières, MSF)** **New York, NY**
***Field Human Resources Intern*** June 2013 – August 2013

Foster the relationship with past, current, and potential members of field staff. I processed, reviewed and evaluated incoming applications for MSF field workers. I prepared briefings, training materials, and logistics for field worker missions, and conducted training sessions for all field staff members.

**Partners Senegal** **Dakar, Senegal**
***Consulting Intern*** January 2013 – June 2013

Partners Senegal is a branch of Partners for Democratic Change, a global organization working to develop change, conflict management, and empowerment of individuals in government. I led research on children's health and the role of the Senegalese security sector to protect health. I wrote a policy proposal for Senegalese government regarding the role of the police and related armed forces in protecting children's rights to health and mental health.

**Village Health Works (VHW)** **New York, NY**
 ***Administrative Intern*** June 2012 – August 2012

VHW is a grassroots non-profit providing health care in rural Burundi, East Africa. I developed correspondence and coordinated logistics on behalf of VHW with donors and staff in Burundi and co-authored a student handbook for the launch of the partnership between American universities and VHW.

**Zimbabwe Orphans Fund (ZOF)** **New York, NY**
***Grants & Research Manager*** May 2012 – August 2017

ZOF Africa is a non-profit organization working with orphaned youth in Zimbabwe to provide technical training and educational programming. I am a member of the founding ZOF team and coordinated and wrote grant applications, as well as researched and outlined the strategic plans for projects at Emerald Hill Children's Home in Zimbabwe.

**Tufts University, Global Development and Environment Institute (GDAE)** **Medford, MA**
***Research Assistant*** September 2011 – January 2014

GDAE is a research institute at Tufts University that combines research and curricular development at The Fletcher School of Law and Diplomacy and Tufts University School of Arts and Sciences, with a focus on the relationship between development and the environment. I composed, edited, and formatted three textbooks currently in publication, as well as conducted research for the Social Science Library project, which distributes educational materials worldwide.

**Humanity in Action (HIA)** **New York, NY**
***Intern*** May 2011 - August 2011

HIA is an international non-profit organization aiming to bring human dignity and moral responsibility to the protection of rights among the new social, cultural, and political leaders today. I led research/review of HIA Fellows' projects on international histories of discrimination/resistance and assisted with the launch of a new website.

EDUCATION

**TUFTS UNIVERSITY** **Boston, MA**
  Master of Public Health, Epidemiology and Biostatistics May 2015
  Bachelor of Arts, International Relations, Community Health, *Cum Laude* May 2014
 **TEACHING EXPERIENCE**
  **Principles of Biostatistics,** *Graduate level*, *Teaching Assistant* September 2014 – August 2015

SKILLS AND QUALIFICATIONS

- *Computer*: Proficient in **R, SQL, MS Excel, Word, and PowerPoint**, **SPSS, Stata, ArcMap.** Elementary Proficiency in **SAS, EpiData, Access, Nvivo, Python.**
- *Languages*: **English** (native speaker), **French** (highly proficient), **Wolof** (conversant).
- *Analytical*: Experience in **database creation, data collection, data entry**, **data cleaning,** and **data analysis, data visualization.** Statistical methods including **longitudinal time series models, hierarchical models, geospatial Bayesian models, compartmental disease models, and predictive ensemble models**.

## PUBLICATIONS

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.** *The Lancet.* 17 August 2021. doi: 10.1016/S0140-6736(21)01207-1.

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.** *The Lancet.* 27 August 2020. doi:10.1016/S0140-6736(20)30750-9.

Zimmerman MS, Smith AGC, Sable CA, Echko MM, Wilner LB, Olsen HE, Atalay HT, Awasthi A, Bhutta ZA, Boucher JL, Castro F, Cortesi PA, Dubey M, Fischer F, Hamidi S, Hay SI, Hoang CL, Hugo-Hamman CT, Jenkins KJ, Kar A, Khalil IA, Kumar RK, Kwan GF, Mengistu DT, Mokdad AH, Naghavi M, Negesa L, Negoi I, Negoi RI, Nguyen CT, Nguyen HLT, Nguyen LH, Nguyen SH, Nguyen TH, Nixon MR, Noubiap JJ, Patel S, Peprah EK, Reiner RC, Roth GA, Temsah MH, Tovani-Palone MR, Towbin JA, Tran BX, Tran TT, Truong NT, Vos T, Vosoughi K, Weintraub RG, Weldegwergs KG, Zaidi Z, Zheleva B, Zuhlke LJ, Murray CJL, Martin GR, Kassebaum NJ. **Global, regional, and national burden of congenital heart disease, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017**. *The Lancet Child & Adolescent Health*. 21 January 2020; doi: 10.1016/S2352-4642(19)30402-X.

GBD 2017 Disease and Injury Incidence and Prevalence Collaborators. **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.* 8 Nov 2018;392:1789–858. doi: http://dx.doi.org/10.1016/S0140-6736(18)32279-7.

GBD 2017 DALYs and HALE Collaborators. **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.* 8 Nov 2018;392:1859–922. doi: http://dx.doi.org/10.1016/S0140-6736(18)32335-3.

GBD 2017 SDG Collaborators. **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.* 8 Nov 2018; 392:2091–138. doi: http://dx.doi.org/10.1016/S0140-6736(18)32281-5.

GBD 2017 Causes of Death Collaborators. **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.* 8 Nov 2018;392:1736-88. doi: http://dx.doi.org/10.1016/S0140-6736(18)32203-7.

Rogers, B.L., Wilner, L. Maganga, G., Walton, S., Suri, D., Langlois, B., Chui, K., Boiteau, J., Rosenberg, I., Vosti, S., Webb, P. (in press). **Program changes are effective and cost-effective in increasing the amount of oil used in preparing corn soy blend porridge for treatment of moderate acute malnutrition in Malawi**. *Maternal and Child Nutrition*.

Wilner, L., Wells, E., Ritter, M., Casimir, J. M., Chui, K., Lantagne, D. (in press). **Sustained use to a relief-to-recovery household water chlorination program in Haiti: Comparing external evaluation findings with internal supervisor and community health worker monitoring data.** Journal of Water, Sanitation, and Hygiene for Development.

Breanne K. Langlois, Devika J. Suri, Lauren Wilner, Shelley Marcus Walton, Kwan Ho Kenneth Chui, Kristine R. Caiafa & Beatrice Lorge Rogers (2018) **Self-report vs. direct measures for assessing corn soy blend porridge preparation and feeding behavior in a moderate acute malnutrition treatment program in southern Malawi, Journal of Hunger & Environmental Nutrition**, 13:4, 470-481, DOI: 10.1080/19320248.2017.1374902.

Wilner, L., Suri, D.J., Langlois, B.K. et al. **Effective delivery of social and behavior change communication through a Care Group model in a supplementary feeding program**. J Health Popul Nutr 36, 34 (2017). https://doi.org/10.1186/s41043-017-0111-3.