

## Education

*University of Washington*  
Seattle, WA

2015-2018

- Master of Public Health, Global Health – Health Metrics and Evaluation
- Data Science Fellowship at the Institute for Health Metrics and Evaluation
- GPA: 3.55/4.0

*Emory University*  
Atlanta, GA

2011-2015

- Bachelor's of Science Degree in Neuroscience and Behavioral Biology
- Dean's list (top 20% of class), Fall 2012, Spring 2013, Fall 2013.
- GPA: 3.7/4.0

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## Work Experience

*Data Scientist*, The Proctor Foundation at University of California, San Francisco  
San Francisco, CA

Jan 2019-Present

- Managed data for 3 large-scale (20,000 participant) randomized-controlled trials in sub-Saharan Africa that assess the effect of Azithromycin in reducing child mortality.
- Programmed 4 automated pipelines (in R and SQL) to perform daily quality checks and generate 50-page reports of field data. Contributed multiple chapters to internal Data Science online book illustrating the process.
- Forecasted trachoma distribution by training mixed effects linear models on historical data and evaluating on 2018 data.

*Data Science Fellow*, Institute for Health Metrics and Evaluation  
Seattle, WA

Aug 2015-Aug 2018

- Constructed and evaluated Bayesian, spatial-temporal models to predict exposure to 5 risk factors (i.e. household air pollution) for >500 national and subnational locations globally for the [Global Burden of Disease study](#).
- Transformed large (>10 million rows) datasets and rasters in R and Stata using Linux-based cluster computing
- Created interactive visualizations and global maps to display risk factor and disease burden results in R's ggplot2 and Shiny.

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## Skills

**Statistical Analysis and Visualization:** *R, SQL, Stata, Git, Jupyter Notebook, D3.js*

Refer to [personal website](#) for examples of analysis and visualization

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## Selected Publications

**Godwin, W.**, ..., Oldenburg C.E (2020-*in press*). Trachoma Prevalence Following Discontinuation of Mass Azithromycin Distribution. *Journal of Infectious Disease*.

Walker, K., ..., **Godwin, W.**, Health Effects Institute & Global Burden of Disease Project Collaboration (2019). State of Global Air 2019-Special Report on Global Exposure to Air Pollution and its Disease Burden.s

Shupler, M., **Godwin, W.**, Frostad, J., Gustafson, P., Arku, R., Brauer, M (2018). Global estimation of exposure to fine particulate matter (PM 2.5) from household air pollution. *Lancet*.

Balakrishnan, K., ..., **Godwin, W. W.**, & India State-Level Disease Burden Initiative Air Pollution Collaborators (2018). The impact of air pollution on deaths, disease burden, and life expectancy across the states of India: the Global Burden of Disease Study 2017. *Lancet*.

Gakidou, E., ..., **Godwin, W. W.**, & GBD 2016 Risk Factors Collaborators (2017). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet*.