**William W Godwin**

[wgodwinner@gmail.com](mailto:wgodwinner@gmail.com) ● 404 909 4156

**Education**

*University of Washington* 2015-2018

Seattle, WA

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

*Emory University* 2011-2015

Atlanta, GA

* 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

**Work Experience**

*Data Scientist,* The Proctor Foundation at University of California, San Francisco Jan 2019-Present

San Francisco, CA

* Leads database design, automated monitoring R notebooks and statistical analysis of 3 large-scale (20,000 participant) randomized-controlled trials assessing methods to [reduce child mortality](https://www.nejm.org/doi/full/10.1056/NEJMoa1715474).
* Communicate and present findings in weekly meetings. Contributed multiple chapters to internal Data Science online book illustrating the process.
* Forecasted trachoma distribution (leading infectious cause of blindness) by training mixed effects linear models on historical data and evaluating on 2018 data.

*Data Science Fellow*, Institute for Health Metrics and Evaluation Aug 2015-Aug 2018

Seattle, WA

* 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*](https://www.thelancet.com/gbd).
* Transformed 10GB data tables and rasters in R and Stata using distributed cluster computing framework.
* Created interactive visualizations and global maps to display risk factor and disease burden results in R’s ggplot2 and Shiny.

**Skills**

**Statistical Analysis and Visualization:** *R*, *SQL, Stata, git version control, Jupyter Notebook, D3.js*

**Refer** to [personal website](https://wgodwin28.github.io/) for examples of analysis and visualization

**Selected Publications**

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

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. *The 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. *The 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. *The Lancet.*