William W Godwin

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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.
- 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*.
- 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 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.*