William W Godwin

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Education

University of Washington   2015-2018
Seattle, WA
- Master's in Public Health, Global Health – Health Metrics and Evaluation
- Post-Bachelor 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

Research Data Analyst II, The Proctor Foundation at University of California, San Francisco   Jan 2019-Present
San Francisco, CA
- 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.
- Built 2 automated pipelines to perform daily quality checks and generate 50-page reports of field data using R (primarily) and SQL.
- Trained mixed effects linear models on historical data and evaluated on 2018 data to forecast trachoma distribution and predict disease elimination.

Post-Bachelor Fellow, Institute for Health Metrics and Evaluation   Aug 2015-Aug 2018
Seattle, WA
- Constructed and evaluated 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*.
- Efficiently wrangled large (>10 million rows) datasets and rasters in R and Stata.
- Created interactive visualizations and global maps to display risk factor and disease burden results in R's ggplot2.
- Masters thesis investigated the interactive effects of air pollution and temperature on mortality in Mexico City.

Skills

Statistical Analysis and Visualization: *R* (statistical software and programming language), *Stata, SQL*
Office: *Microsoft Word, Excel, PowerPoint, Outlook*

Publications

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.

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.

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.