

GREG FREEDMAN ELLIS

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gdfc.co

Education

Northwestern University

B.A. in Economics and Mathematical Methods in the Social Sciences; Math minor

Graduated in 2011

Relevant Coursework

- Advanced Econometrics
- Communicating Complex Data

University of Washington

Graduate Non-Matriculated Student

Part-Time from 2011-2014

Relevant Coursework

- Bayesian Statistics for Social Science
 - Biostatistics
 - Causal Modeling
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Experience

Iowa Department of Public Health

Statistical Research Analyst

July 2014 - May 2016

Des Moines, Iowa

- Analyzed results from the PRAMS survey and communicated findings on the health of pregnant women and their newborns to colleagues, other public health professionals and the public.
- Developed and implemented an evaluation plan for the Oral Health Center's core programs in collaboration with program staff.
- Processed and cleaned historical data on the school sealant program that had been neglected since initial collection to provide insights on trends in the oral health of students in schools with many low income students.

Institute for Health Metrics and Evaluation

Post-Bachelor Fellow

Sept. 2011 - July 2014

Seattle, Washington

- Compiled data from a variety of sources, including longitudinal surveys, sales and production estimates and satellite data to create statistical models that predict the global exposure to risk factors such as Outdoor Air Pollution, Alcohol, Tobacco and others for the Global Burden of Disease Project.
 - Wrote software to gather models from colleagues on exposure and relative risk of risk factors and combine with disease data to calculate the burden attributed to risk factors and uploading to a database, while propagating uncertainty from each step.
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Other

Projects

srvyr

[CRAN](#) • [GitHub](#)

An R package that extends the programming style and idioms from the dplyr package to the analysis of complex surveys so that code can be more consistent and concise.

Selected Publications

Brauer M, Freedman G, et al. **Ambient Air Pollution Exposure Estimation for the Global Burden of Disease 2013**. *Environmental Science & Technology*. 2016; 50:79-88. ([PubMed](#))

US Burden of Disease Collaborators. **The State of US Health, 1990-2010 Burden of Diseases, Injuries, and Risk Factors**. *JAMA*. 2013; 310(6):591-608. ([PubMed](#))

Software

Advanced Proficiency

R • Stata • Excel • Word • PowerPoint

Basic Proficiency

SAS • SQL • Git