

# Jae Downing

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## Health Outcomes & Data Science Specialist

Econometrics  
Data Visualization  
Predictive Modeling  
Survey Development  
A/B Testing

Machine Learning  
Database Queries  
Data Wrangling  
Technical Writing  
Cost-Effectiveness

**Degrees:** **Doctorate**, Health Services & Policy Analysis, UC Berkeley (2015)  
**Masters**, Global Health Sciences, UC San Francisco (2011)  
**Bachelors**, Finance, University of Maryland (2006)

**Industries:** Health & Health Care, Higher Ed., Consulting, Finance

## TECHNOLOGIES

R  
RMarkdown  
Stata

SQL  
ggplot2  
LaTeX

Qualtrics  
RedCap  
SuperLearner

ArcGIS  
markdoc  
Git / Github

## RECENT WORK HISTORY

**Assistant Professor**, Oregon Health & Science University, Portland, OR (2019 - present)

- Obtained more than \$1M in extramural funding to support research activities
- Employed in data wrangling, predictive modeling, econometric and epidemiological methods for research using claims data, electronic health records data, survey data, and birth certificate records
- Developed and analyzed surveys using Qualtrics
- Organized 2 research meetings, each with over 100 participants
- Hired and managed 5 employees to assist in research support activities

**Assistant Professor**, University of South Carolina, Columbia, SC

(2017- 2018)

- Performed data wrangling, predictive modeling, econometric and epidemiological methods for research using claims data, electronic health records data, survey data, and birth certificate records
- Hired and managed 2 employees to assist in research support activities
- Taught courses on healthcare management and organizational theory

**Data Scientist**, Livongo, Mountainview, CA

(2015-2016)

- Built predictive models to determine impact of real-time coaching on glucose management
- Published work in peer-reviewed journals and conferences
- Engaged in data wrangling to merge clinical data, claims data, and survey data from Livongo members

**Health Economics Analyst**, University of California, San Francisco

(2010-2013)

- Led cost-effectiveness analyses for several global health projects using data from multiple randomized-control trials
- Taught 2 graduate-level courses on cost-effectiveness and decision making and global health economics

## EDUCATION

**Postdoctoral Training, Public Health**, University of California, Berkeley

2016

**Doctorate of Science, Public Health**, University of California, Berkeley

2015

**Master of Science, Global Health**, University of California, San Francisco

2011

**Bachelor of Science, Finance**, University of Maryland, College Park

2006

## ➤ Selected Publications

1. **Downing**, J. Everett, B. Snowden, J. (2021) Differences in perinatal outcomes of birthing people in same-sex and different-sex marriages. *American Journal of Epidemiology* (in press).
2. **Downing, J. M.**, Yee, K., & Dy, G. (2021). Hair Removal for Patients Undergoing Feminizing Surgeries in Oregon's Medicaid Program. *JAMA dermatology*.
3. **Downing, J.**, & Cha, P. (2020). Same-Sex Marriage and Gains in Employer-Sponsored Insurance for US Adults, 2008–2017. *American Journal of Public Health*, 110(4), 537-539.

4. **Downing, J**, Bruckner, T. "Subprime Babies: The Foreclosure Crisis and Initial Health Endowments." *RSF: The Russell Sage Foundation Journal of the Social Sciences* 5.2 (2019): 123-140. doi: 10.7758/RSF.2019.5.2.07
5. **Downing, J.**, Laraia, B. Rodriguez, H., T., Dow, W., Adler, N., Schillinger, D., Moffet, H., Karter, A. T. Beyond the Great Recession: was the Foreclosure Crisis harmful to the health of individuals with diabetes? *American Journal of Epidemiology* 2017 1-7. doi: 10.1093/aje/kww171