

# JESSICA GODWIN

Department of Statistics  
University of Washington  
Box 354322  
Seattle, WA 98195-4322

jlg0003@uw.edu  
<https://jlgodwin.github.io/>  
+1(256)348-7799  
Padelford Hall C-17

## EDUCATION

---

### UNIVERSITY OF WASHINGTON

#### Ph.D. in Statistics

Expected 2020

Research advisors: Jon Wakefield

Dissertation: Estimating Mortality at the Subnational Level in a Low and Middle Income Countries Context

### AUBURN UNIVERSITY

#### M.S. in Statistics

August 2013

Research advisor: Nedret Billor

Thesis: The group lasso for functional logistic regression

#### B.S. in Actuarial Science, Summa Cum Laude

May 2011

## PUBLICATIONS

---

**Godwin J**, Wakefield J (2020) “Space-Time Modeling of Child Mortality at the Admin-2 Level in a Low and Middle Income Countries Context”. *Statistics in Medicine. Under revision*.

Li Z, Hsiao Y, **Godwin J**, Martin BD, Wakefield J, Clark SJ (2019) “Changes in the spatial distribution of under-five mortality rate: Small-area analysis of 122 DHS surveys in 262 subregions of 35 countries in Africa”. *PloS One* 14(1).

Wakefield J, Fuglstad GA, Riebler A, **Godwin J**, Wilson K, Clark SJ (2018) “Estimating under-five mortality in space and time in a developing world context”. *Statistical Methods in Medical Research* (2018).

Sharrow DJ, **Godwin J**, He Y, Clark SJ, Raftery AE (2018) “Probabilistic Population Projections for Countries with Generalized HIV/AIDS Epidemics”. *Population Studies* 72(1), 1–15.

**Godwin J**, Raftery AE (2017). “Bayesian Projections of Life Expectancy Accounting for the HIV/AIDS Epidemic”. *Demographic Research* 37, 1549–1610.

Wakefield J, Simpson D, **Godwin J** (2016). “Comment: Getting into Space with a Weight Problem”. *Journal of the American Statistical Association* 111(515), 1111–1118.

Billor N, **Godwin J** (2015). “Variable Selection for Functional Logistic Regression in fMRI Data Analysis”. *Turkiye Klinikleri Journal of Biostatistics* 7(1).

## CONFERENCE PRESENTATIONS

---

- PAA (Population Association of America)** April 2020  
Oral presentation: Covariate Associations With Childhood Mortality in sub-Saharan Africa Using Complex Survey Data  
Poster presentation: Subnational Estimation of Child Mortality at Older Ages in a Low and Middle Income Countries Context
- PAA (Population Association of America)** April 2019  
Oral presentation: Small Area Estimation of Child Mortality at Admin-2 Level
- PAA (Population Association of America)** April 2017  
Oral presentation: Probabilistic Projections of Mortality in Countries with Generalized HIV Epidemics for Use in Total Population Projection
- PAA (Population Association of America)** April 2016  
Oral presentation: Bayesian Projections of Life Expectancy Accounting for HIV Prevalence for All Countries in the World
- JSM (Joint Statistical Meetings)** August 2015  
Oral presentation: Bayesian Projections of Life Expectancy Accounting for HIV Prevalence for All Countries in the World
- JSM (Joint Statistical Meetings)** August 2013  
Poster presentation: The Group Lasso for Functional Logistic Regression
- SRCOS (Southern Regional Council on Statistics)** June 2013  
Poster presentation: The Group Lasso for Functional Logistic Regression

## RESEARCH EXPERIENCE

---

### MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH

- Pre-doctoral Researcher** Winter 2019–Spring 2019  
Lab of Digital and Computational Demography. Subnational estimation of adolescent and young adult mortality in low and middle income countries.  
Supervisor: Emilio Zagheni ([zagheni@demogr.mpg.de](mailto:zagheni@demogr.mpg.de))

### UNIVERSITY OF WASHINGTON

- Research Assistant** July 2015–July 2017  
Bayesian spatiotemporal estimation of under-five mortality.  
Advisor: Jon Wakefield ([jonno@uw.edu](mailto:jonno@uw.edu))
- Research Assistant** June 2014–July 2015  
Bayesian hierarchical modeling of life expectancy in the presence of HIV.  
Advisor: Adrian Raftery ([raftery@uw.edu](mailto:raftery@uw.edu))

## TEACHING EXPERIENCE

---

### UNIVERSITY OF WASHINGTON

**Instructor, CSSS 505**

Winter 2020, 2018

Review of Mathematics for Social Scientists.

**Instructor, STAT 302**

Autumn 2019

Statistical programming in R and SAS.

**Instructor, Math Camp CSSS**

September 2016–2020

Review of Mathematics for Social Scientists and introduction to R and STATA.

**Teaching Assistant, SOC 504**

Autumn 2018

Intro to Statistics for Social Scientists. Grading, office hours.

Supervisor: Kyle Crowder ([kylecrow@uw.edu](mailto:kylecrow@uw.edu))**Teaching Assistant, STAT 529**

Spring 2018

Survey statistics. Writing &amp; teaching labs, writing homeworks, grading, office hours.

Supervisor: Elena Erosheva ([erosheva@uw.edu](mailto:erosheva@uw.edu))**Teaching Assistant, STAT 221**

Autumn 2013–Spring 2014

Intro to Statistics for Social Scientists. Lecturing, grading, holding office hours.

Supervisor: June Morita([june@uw.edu](mailto:june@uw.edu))

### AUBURN UNIVERSITY

**Instructor, STAT 2510**

Fall 2011–Spring 2013

Introduction to statistics and R.

Supervisor: Bertram Zinner ([zinnebe@auburn.edu](mailto:zinnebe@auburn.edu))

## PROFESSIONAL EXPERIENCE

---

### SPARTA, INC.

**Systems Analyst**

Summer 2011, 2012

Model and Simulation team. Use simulation software and statistical methods to build a model of a cancer treatment facility to design an efficient hospital floor plan and optimize resource levels in order to minimize patient time in system.

Supervisor: Jim Walsh ([james.walsh@parsons.com](mailto:james.walsh@parsons.com))

## HONORS AND AWARDS

---

### UNIVERSITY OF WASHINGTON

**CSSS Travel Award**

Spring 2020

**CSDE Big Data to Knowledge Fellowship**

2017

**CSDE Travel Award**

Spring 2016

## AUBURN UNIVERSITY

### Master's Thesis Award

October 2014

Awarded to up to three Master's theses per year in Mathematics, Physical Sciences and Engineering

### COSAM Travel Award

Summer 2013

Applied, was accepted and provided with funding to attend

### John and Rosemary Brown Scholarship

Fall 2009–Spring 2010

Given to one male and one female junior and senior majoring in Mathematics

### Merit Scholarship

2007–2011

### Spirit of Auburn Presidential Scholarship

2007–2011

## OTHER

### Undergraduate Workshop: Object Data Analysis, SAMSI

Spring 2011

### Society of Actuaries P Exam Passed

May 2010

### Society of Actuaries FM Exam Passed

November 2009

## SERVICE

---

### REVIEWER

### PLoS One, Demographic Research

### DEPARTMENT OF STATISTICS, UNIVERSITY OF WASHINGTON

### WiBS

2017–Present

Founder and member of leadership of an organization in UW's Statistics and Biostatistics departments to create community for and provide extra support and resources to women and nonbinary students .

### Diversity Committee

January 2017–December 2018

### Graduate Student Representative to Faculty

May 2015–May 2017

Plan all recruitment activities for prospective Ph.D. students, plan all orientation activities for incoming Ph.D./M.S., attend faculty meetings.

### Student Representative, ASA

May 2015–August 2017

Liaison between students and the officers of the Puget Sound Chapter of the American Statistical Association

### DEPARTMENT OF MATHEMATICS AND STATISTICS, AUBURN UNIVERSITY

### Science Olympiad

2011–2013

Event judge middle school Science Olympiad meet held yearly at Auburn University.

## COMPUTING

---

PROFICIENT IN: R, SAS, Stata, Excel, C, Minitab, SPSS, ExtendSim8