

# JESSICA GODWIN

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## EDUCATION

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### 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

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**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

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- 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

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### 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

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### 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

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### 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

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### UNIVERSITY OF WASHINGTON

**CSSS Travel Award**

Spring 2020

**CSDE Big Data to Knowledge Fellowship**

2017

**CSDE Travel Award**

Spring 2016

### AUBURN UNIVERSITY

<b>Master's Thesis Award</b>	October 2014
Awarded to up to three Master's theses per year in Mathematics, Physical Sciences and Engineering	
<b>COSAM Travel Award</b>	Summer 2013
Applied, was accepted and provided with funding to attend	
<b>John and Rosemary Brown Scholarship</b>	Spring 2010
Given to one male and one female junior and senior majoring in Mathematics	
<b>John and Rosemary Brown Scholarship</b>	Fall 2009
<b>Merit Scholarship</b>	2007-2011
<b>Spirit of Auburn Presidential Scholarship</b>	2007-2011

#### OTHER

<b>Undergraduate Workshop: Object Data Analysis, SAMSI</b>	Spring 2011
<b>Society of Actuaries P Exam Passed</b>	May 2010
<b>Society of Actuaries FM Exam Passed</b>	November 2009

## SERVICE

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#### 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

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