Jessica Godwin

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Education

University of Washington

Ph.D. in Statistics   Expected Spring 2021
Research advisor: Jon Wakefield
Dissertation: Estimating Child 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 (2021) "Space-time modeling of child mortality at the Admin-2 level in a low and middle income countries context". *Statistics in Medicine*, 1–46.

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) "Probablistic Population Projections for Countries with Genralized 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 Anaylsis". *Turkiye Klinikleri Journal of Biostatistics* 7(1).

Conference Presentations

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`)

University of Washington

Research Assistant July 2015–July 2017

Bayesian spatiotemporal estimation of under-five mortality.
Advisor: Jon Wakefield (`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`)

Teaching Experience

University of Washington

Teaching Assistant, STAT 554 Winter 2021

Spatial statistics. Grading assignments, office hours.
Supervisor: Jon Wakefield (`jonno@uw.edu`)

Teaching Assistant, STAT 529 Spring 2020, 2018

Survey statistics. Writing & teaching labs, writing homeworks, grading, office hours.
Supervisor: Elena Erosheva (`erosheva@uw.edu`)

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 2016–2021

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`)

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`)

Auburn University

Instructor, STAT 2510 — Fall 2011–Spring 2013

Introduction to statistics and `R`.
Supervisor: Bertram Zinner (`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`)

Honors and Awards

University of Washington

CSDE Shanahan Fellow
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
Spirt 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**, **Biometrics Journal**

Population Dynamics Lab, Center for Studies in Demography and Ecology

Editorial board	2020–Present

Department of Statistics, University of Washington

WiBS 2017–2020

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